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Our ref: 11218519

May 13, 2021

Mr. Jerome Cruz  
Washington Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue SE  
Bellevue WA 98008-5452

**Quarterly Progress Report  
Shell Harbor Island Terminal, Seattle, Washington**

Dear Mr. Cruz

GHD has prepared this letter on behalf of Equilon Enterprises dba Shell Oil Products US (Shell) as a progress report update for the Seattle Terminal (Site) MTCA remedial action in accordance with Consent Decree No. 99-2-07176-0SEA Section XI. With approval from the Department of Ecology (Ecology), the first quarter groundwater monitoring event was delayed from March to April to coordinate gauging wells within the SH-04 Area with gauging for wells at the Kinder Morgan facility. Therefore, this progress report covers the period from January 1, 2021 to April 13, 2021.

Table 1 summarizes Groundwater Cleanup Levels established for the Site, and Table 2 summarizes the established groundwater monitoring program. Depth to groundwater and groundwater elevation data are summarized in Table 3, and product gauging data in Table 4. Natural attenuation parameters are summarized in Table 5, and chemical constituent data are summarized in Tables 6 and 7.

## 1. Current Reporting Period Activities

- Monthly gauging events with product monitoring were conducted at monitoring wells MW-208, and MW-210 through MW-212 on January 21, February 16, March 23, and April 12, 2021 within the Shoreline Manifold Area. The absorbent socks in wells MW-210 and MW-212 were changed as needed during each monthly event. Measurable free product of 2.06, 0.91, and 0.46 feet was recorded in well MW-210 during the January, February, and March events, respectively. Sometime between the December 2020 gauging event and the January 2021 event, the stainless-steel cage holding absorbent socks at the top of the water table in well MW-210 had sunk to the bottom of the well, resulting in an increase in product thickness. Absorbent socks were reinstalled in well MW-210 during the January 2021 event, and the stainless-steel case was recovered and reinstalled at the water table during the February 2021 event. Following the reinstallation, product thickness has decreased. Measurable free product was not detected in wells MW-208 and MW-212 during the monthly gauging events.
- The first quarter groundwater monitoring event was conducted on April 12 and 13, 2021 in accordance with the groundwater monitoring program as shown on Table 2.

- Monitoring wells gauged during this event included: MW-101, MW-102, MW-201 through MW-204, MW-206A, MW-301 through MW-304, MW-307 through MW-315, TES-MW-1, and TX-03A in the TX-03A area, MW-105, MW-208, MW-210 through MW-214, TX-04, TX-06A in the Shoreline Manifold area, and MW-05, MW-104, MW-111, MW-112A, and SH-04 in the SH-04 area.
- Monitoring wells sampled during this event included: MW-301 through MW-304, MW-307, MW-308, MW-310 through MW-315, and TX-03A in the TX-03A area.
- As of the date of this update, GHD has not yet received gauging data for the Kinder Morgan facility.

The groundwater monitoring results from this event will be summarized in the 2021 Annual Compliance Monitoring Report.

## **2. Deviations from Required Tasks Not Otherwise Documented**

### **2.1 MW-312 Total Petroleum Hydrocarbons as Gasoline (TPHg)**

The sample volume for well MW-312 during the first quarter event was insufficient for all required analysis, resulting in the sample being run for benzene, toluene, ethylbenzene, and xylenes (BTEX) only, and not for TPHg.

### **2.2 TX 03A Area Bio-Sparge System**

The bio-sparging system was shut off December 6, 2019, and rebound testing was initiated. Wells evaluated for rebound testing include MW-301 through MW-304, MW-307 through MW-311, and TX-03A. Benzene concentrations in the wells within the bio-sparging area during the April 2021 event remained below cleanup levels, except for well MW-307. TPHg exceeded cleanup levels in wells MW-301, MW-302, MW-303, MW-307, MW-310, and MW-311. Gasoline concentrations in all wells remain lower than concentrations reported between 2012 and 2016, prior to system operation, except for well MW-311. Concentrations in well MW-311 may decrease as treated groundwater from the remediation system travels in the downgradient direction from the treatment area. Based on these results, GHD does not recommend restarting the bio sparge system, and we will submit a request for removal of the system under separate cover. Rebound monitoring will continue pending approval of system removal.

## **3. Deviations from Schedule and Any Planned Deviations in Upcoming Reporting Period**

The first quarter event was delayed from March to April 20201 to coordinate with the event at the Kinder Morgan facility. No deviations are currently planned for the second quarter 2021.

## **4. Plan for any Deviations in Schedule for Recovery of List Time and Maintaining Compliance with Schedule**

None.

## **5. All Raw Data (including laboratory analysis) Received by Shell during the Past Quarter and a List of Deliverables for the Upcoming Reporting Period**

- The groundwater cleanup levels are provided on Table 1, and the groundwater monitoring program is provided in Table 2. The groundwater elevation data, product monitoring data, compliance monitoring natural attenuation parameters, and groundwater sample results for the first quarter 2021 are included with the historical data on Tables 3 through 7. New groundwater data from the first quarter 2021 are highlighted on these tables in yellow.
- The laboratory report for the first quarter groundwater monitoring event is included in Attachment A.
- Groundwater samples were analyzed for one or more of the following during the first quarter 2021 groundwater monitoring event in accordance with Table 2:
  - Volatile organic compounds: BTEX
  - TPHg
- A data quality review report is included in Appendix B.

## **6. List of Deliverables for the Upcoming Reporting Period if Different from the Schedule**

None.

## **7. List of Deliverables in Review with Washington State Ecology or Other Agency**

- AECOM, 2020a. Shell Harbor Island Terminal Major Remedial Efforts Summary (2016-2020). April 2.
- AECOM, 2020b. Shell Harbor Island Terminal Bio-Sparging System. April 9.
- AECOM, 2020c. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, May 15, 2020. May 15.
- AECOM, 2020d. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, August 14, 2020. August 14.
- GHD, 2020. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA Quarterly Progress Report, November 13, 2020. November 13.
- GHD, 2021a. Env-Agency Correspondence CONSENT DECREE 99-2-07176-0SEA 2020 Annual Compliance Monitoring Report, February 15, 2021.February 15.
- GHD, 2021b. Shell Harbor Island Terminal Interim Action Report. March 11.

Please do not hesitate to contact me at (707) 540 9686. If you have any questions or comments.

Sincerely,

GHD



Jacquelyn L. England, LG  
JE/fb/2



Jacquelyn England

Encl.

Tables:

Table 1 Groundwater Cleanup Levels

Table 2 Groundwater Monitoring Program

Table 3 Groundwater Elevation Data

Table 4 Performance Product Monitoring Data

Table 5 Compliance Monitoring Natural Attenuation Parameters

Table 6 BTEX, Petroleum Hydrocarbons, and Lead in Groundwater

Table 7 Carcinogenic PAHs in Groundwater

Attachments:

Attachment A - Laboratory Report

Attachment B - Data Quality Review Report

cc: Andrea Wing – Shell Oil Products US

Paul Katz, Seattle Terminal Manager – Shell Oil Products US

Theresa Geijer – Shell Terminal Environmental Manager

# Tables

**Table 1**  
**Groundwater Cleanup Levels**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Constituent	Cleanup Level <sup>a</sup> (mg/L)
Arsenic	0.036 <sup>b</sup>
Benzene	0.071
Benzo(a)anthracene	0.000031
Benzo(a)pyrene	0.000031
Benzo(b)fluoranthene	0.000031
Benzo(k)fluoranthene	0.000031
Chrysene	0.000031
Dibenzo(a,h)anthracene	0.000031
Ethylbenzene	29.0
Indeno(1 ,2,3-cd)pyrene	0.000031
Lead	0.0058
TPH-G	1.0
TPH-D	10
TPH-O	10
Toluene	200.0

**Notes:**

<sup>a</sup> Cleanup levels per the Consent Decree (Ecology, 1998), except where noted.

<sup>b</sup> Cleanup level based on ambient water quality criteria (chronic criteria for the protection of aquatic organisms) per WAC 173-201A-040.

mg/L = milligrams per liter

TPH-D = total petroleum hydrocarbons as diesel

TPH-G = total petroleum hydrocarbons as gasoline

TPH-O = total petroleum hydrocarbons as oil

**Table 2**  
**Groundwater Monitoring Program**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

**Table 2**  
**Groundwater Monitoring Program**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

**Notes:**

**Red** = Modifications to the program since the November 2008 proposed changes which were established in correspondence between URS and Ecology. 1Q = March\*

2Q ≡ June 3Q ≡ August

2Q = June 3Q = August  
4Q = December Addtl = Additional

BGD = Background well with respect to confirmational sampling

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B Dec = December

DTEX = benzene, teeth

DTH = Depth to product  
ft bas = below ground surface

G = indicates a well to be gauged during that event MG = monthly gauge

NA = natural attenuation

NAT - Natural attenuation  
Natural Attenuation Parameters: Nitrate and Nitrite by EPA Method 353.2, Sulfate by EPA Method 300.0, Dissolved Iron and Manganese by EPA Method 6010B/6020A (Lab Filtered), and Ferrous Iron collected in the field.

PAHs = polycyclic aromatic hydrocarbons by EPA Method 8270C; SSM-POC = Conditional Point of Compliance Well.

PAHS - po  
O = smutarny

S = indicates a well to be sampled during that event. Sept = September.

S = indicates a well to be sampled  
Total Lead by EPA Method 200-0

Total Lead by EPA Method 6020  
TPH-Dx = total petroleum hydrocarbons as diesel by NWTPH-Dx TPH-Gx = total petroleum hydrocarbons as gasoline by NWTPH-Gx WLM = Water level measurement

**measurement**  
You indicate a will to be employed for that analysis.

X = indicates a well to be analyzed for that analyte  
X<sup>A</sup> = indicates a well to be analyzed for that analyte during the analytical run

**X<sup>n</sup>** = indicates a well to be analyzed for that analyte during the annual sampling event only

X<sup>s</sup> = indicates a well to be analyzed for that analyte during

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	04/06/93	10.39	6.12	4.27
MW-05	05/13/93	10.39	5.92	4.47
MW-05	06/10/93	10.39	5.98	4.41
MW-05	07/08/93	10.39	6.23	4.16
MW-05	08/03/93	10.39	6.50	3.89
MW-05	10/08/93	10.39	7.22	3.17
MW-05	11/05/93	10.39	7.42	2.97
MW-05	12/03/93	10.39	7.38	3.01
MW-05	01/05/94	10.39	6.64	3.75
MW-05	02/04/94	10.39	6.54	3.85
MW-05	08/28/95	10.39	Not Measured	Not Measured
MW-05	09/27/95	10.39	8.35	2.04
MW-05	04/27/99	10.39	8.07	2.32
MW-05	07/14/99	10.39	5.88	4.51
MW-05	10/18/99	10.39	7.00	3.39
MW-05	04/05/00	10.39	5.05	5.34
MW-05	07/18/00	10.39	6.30	4.09
MW-05	10/02/00	10.39	7.15	3.24
MW-05	01/22/01	10.39	6.50	3.89
MW-05	07/23/01	10.39	7.43	2.96
MW-05	07/18/02	10.39	7.10	3.29
MW-05	01/30/03	10.39	5.84	4.55
MW-05	04/15/03	10.39	5.80	4.59
MW-05	07/17/03	10.39	7.12	3.27
MW-05	10/15/03	10.39	7.78	2.61
MW-05	10/23/03	10.39	7.80	2.59
MW-05	01/13/04	10.39	5.65	4.74
MW-05	04/19/04	13.57	6.35	7.22
MW-05	07/27/04	13.57	7.32	6.25
MW-05	10/18/04	13.57	7.36	6.21
MW-05	01/24/05	13.57	6.26	7.31
MW-05	04/18/05	13.57	6.27	7.30
MW-05	07/12/05	13.57	6.85	6.72
MW-05	10/18/05	13.57	7.60	5.97
MW-05	01/25/06	13.57	4.78	8.79
MW-05	04/25/06	13.57	5.90	7.67
MW-05	10/11/06	13.57	7.62	5.95
MW-05	11/19/08	13.57	8.23	5.34
MW-05	11/16/09	13.57	6.44	7.13
MW-05	10/29/10	13.57	6.57	7.00

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Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-05	10/25/11	13.57	7.25	6.32
MW-05	05/30/12	13.57	5.86	7.71
MW-05	08/23/12	13.57	6.63	6.94
MW-05	11/27/12	13.57	5.30	8.27
MW-05	05/16/13	13.57	5.72	7.85
MW-05	11/07/13	13.57	6.49	7.08
MW-05	04/22/14	13.57	5.25	8.32
MW-05	12/08/15	13.57	5.42	8.15
MW-05	05/04/16	13.57	5.22	8.35
MW-05	12/14/16	13.57	4.78	8.79
MW-05	06/13/17	13.57	5.45	8.12
MW-05	12/04/17	13.57	5.64	7.93
MW-05	06/12/18	13.57	6.43	7.14
MW-05	12/17/18	13.57	6.27	7.30
MW-05	05/15/19	13.57	6.69	6.88
MW-05	12/09/19	13.57	7.09	6.48
MW-05	06/29/20	13.57	6.30	7.27
MW-05	12/14/20	13.57	6.31	7.26
MW-05	04/12/21	13.57	5.40	8.17
MW-101	04/06/93	15.14	10.48	4.66
MW-101	05/13/93	15.14	10.32	4.82
MW-101	06/10/93	15.14	10.45	4.69
MW-101	07/08/93	15.14	10.75	4.39
MW-101	08/03/93	15.14	11.09	4.05
MW-101	09/08/93	15.14	11.52	3.62
MW-101	10/08/93	15.14	11.89	3.25
MW-101	11/05/93	15.14	12.13	3.01
MW-101	12/03/93	15.14	12.14	3.00
MW-101	01/05/94	15.14	11.16	3.98
MW-101	02/04/94	15.14	11.02	4.12
MW-101	08/28/95	15.14	11.25	3.89
MW-101	09/27/95	15.14	11.49	3.65
MW-101	04/27/99	15.14	9.22	5.92
MW-101	07/14/99	15.14	10.73	4.41
MW-101	10/18/99	15.14	11.78	3.36
MW-101	01/11/00	15.14	9.73	5.41
MW-101	04/05/00	15.14	9.85	5.29
MW-101	07/18/00	15.14	11.01	4.13
MW-101	10/02/00	15.14	11.85	3.29

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	01/22/01	15.14	11.67	3.47
MW-101	07/23/01	15.14	12.33	2.81
MW-101	10/16/01	15.14	13.15	1.99
MW-101	04/23/02	15.14	10.81	4.33
MW-101	07/18/02	15.14	11.88	3.26
MW-101	10/23/02	15.14	12.73	2.41
MW-101	01/30/03	15.14	10.09	5.05
MW-101	04/15/03	15.14	10.36	4.78
MW-101	07/17/03	15.14	11.94	3.20
MW-101	10/15/03	15.14	12.68	2.46
MW-101	01/13/04	15.14	10.06	5.08
MW-101	04/19/04	18.21	11.13	7.08
MW-101	07/27/04	18.21	12.07	6.14
MW-101	10/18/04	18.21	12.19	6.02
MW-101	01/24/05	18.21	10.61	7.60
MW-101	04/18/05	18.21	10.86	7.35
MW-101	07/12/05	18.21	11.61	6.60
MW-101	10/18/05	18.21	12.45	5.76
MW-101	01/25/06	18.21	9.21	9.00
MW-101	04/25/06	18.21	10.75	7.46
MW-101	10/11/06	18.21	12.39	5.82
MW-101	11/18/08	18.21	11.45	6.76
MW-101	11/16/09	18.21	10.95	7.26
MW-101	10/26/10	18.21	11.36	6.85
MW-101	10/25/11	18.21	12.15	6.06
MW-101	05/30/12	18.21	10.79	7.42
MW-101	06/13/12	18.21	10.90	7.31
MW-101	09/26/12	18.21	12.04	6.17
MW-101	11/27/12	18.21	9.90	8.31
MW-101	02/22/13	18.21	10.24	7.97
MW-101	05/16/13	18.21	10.89	7.32
MW-101	09/06/13	18.21	11.99	6.22
MW-101	11/07/13	18.21	11.78	6.43
MW-101	04/22/14	18.21	10.16	8.05
MW-101	11/04/14	18.21	10.70	7.51
MW-101	03/10/15	18.21	10.31	7.90
MW-101	05/15/15	18.21	10.03	8.18
MW-101	07/29/15	18.21	11.86	6.35
MW-101	12/10/15	18.21	9.12	9.09
MW-101	02/23/16	18.21	8.81	9.40

**Table 3**  
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**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-101	05/03/16	18.21	10.29	7.92
MW-101	08/30/16	18.21	11.29	6.92
MW-101	12/14/16	18.21	9.62	8.59
MW-101	03/13/17	18.21	8.87	9.34
MW-101	06/13/17	18.21	10.53	7.68
MW-101	08/22/17	18.21	11.63	6.58
MW-101	12/04/17	18.21	10.18	8.03
MW-101	03/06/18	18.21	10.05	8.16
MW-101	06/12/18	18.21	11.03	7.18
MW-101	09/05/18	18.21	11.97	6.24
MW-101	12/17/18	18.21	10.98	7.23
MW-101	03/18/19	18.21	10.17	8.04
MW-101	05/15/19	18.21	10.58	7.63
MW-101	09/17/19	18.21	12.03	6.18
MW-101	12/09/19	18.21	11.82	6.39
MW-101	04/27/20	18.21	10.53	7.68
MW-101	06/29/20	18.21	11.15	7.06
MW-101	09/21/20	18.21	12.00	6.21
MW-101	12/14/20	18.21	11.10	7.11
MW-101	04/12/21	18.21	10.20	8.01
MW-102	04/06/93	12.51	7.99	4.52
MW-102	05/13/93	12.51	7.82	4.69
MW-102	06/10/93	12.51	7.80	4.71
MW-102	07/08/93	12.51	8.32	4.19
MW-102	08/03/93	12.51	8.68	3.83
MW-102	09/08/93	12.51	9.03	3.48
MW-102	10/08/93	12.51	9.44	3.07
MW-102	11/05/93	12.51	9.62	2.89
MW-102	12/03/93	12.51	9.42	3.09
MW-102	01/05/94	12.51	8.50	4.01
MW-102	02/04/94	12.51	8.52	3.99
MW-102	08/28/95	12.51	8.86	3.65
MW-102	09/27/95	12.51	9.17	3.34
MW-102	04/27/99	12.51	6.68	5.83
MW-102	07/14/99	12.51	8.40	4.11
MW-102	10/18/99	12.51	9.38	3.13
MW-102	01/11/00	12.51	7.43	5.08
MW-102	04/05/00	12.51	7.55	4.96
MW-102	07/18/00	12.51	8.37	4.14

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	10/02/00	12.51	9.45	3.06
MW-102	01/22/01	12.51	9.12	3.39
MW-102	07/23/01	12.51	9.91	2.60
MW-102	04/23/02	12.51	8.17	4.34
MW-102	07/18/02	12.51	9.44	3.07
MW-102	07/18/02	12.51	9.44	3.07
MW-102	10/23/02	12.51	10.05	2.46
MW-102	01/28/03	12.51	7.20	5.31
MW-102	04/15/03	12.51	7.75	4.76
MW-102	07/17/03	12.51	9.51	3.00
MW-102	10/15/03	12.51	10.11	2.40
MW-102	01/13/04	12.51	7.49	5.02
MW-102	04/19/04	15.60	8.72	6.88
MW-102	07/27/04	15.60	9.62	5.98
MW-102	10/18/04	15.60	9.54	6.06
MW-102	01/24/05	15.60	7.92	7.68
MW-102	04/18/05	15.60	8.20	7.40
MW-102	07/12/05	15.60	9.10	6.50
MW-102	10/18/05	15.60	9.87	5.73
MW-102	01/25/06	15.60	3.94	11.66
MW-102	04/25/06	15.60	8.24	7.36
MW-102	10/11/06	15.60	9.84	5.76
MW-102	11/19/08	15.60	8.79	6.81
MW-102	11/16/09	15.60	8.10	7.50
MW-102	10/28/10	15.60	8.64	6.96
MW-102	10/25/11	15.60	9.59	6.01
MW-102	05/30/12	15.60	8.27	7.33
MW-102	06/13/12	15.60	8.32	7.28
MW-102	09/26/12	15.60	9.53	6.07
MW-102	11/27/12	15.60	7.03	8.57
MW-102	02/22/13	15.60	7.88	7.72
MW-102	05/16/13	15.60	8.40	7.20
MW-102	09/06/13	15.60	9.36	6.24
MW-102	11/07/13	15.60	9.18	6.42
MW-102	04/22/14	15.60	7.69	7.91
MW-102	11/04/14	15.60	7.91	7.69
MW-102	03/10/15	15.60	7.90	7.70
MW-102	05/15/15	15.60	8.47	7.13
MW-102	07/29/15	15.60	9.39	6.21
MW-102	12/10/15	15.60	6.53	9.07

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-102	02/23/16	15.60	6.78	8.82
MW-102	05/03/16	15.60	7.92	7.68
MW-102	08/30/16	15.60	8.98	6.62
MW-102	12/14/16	15.60	7.27	8.33
MW-102	03/13/17	15.60	6.75	8.85
MW-102	06/13/17	15.60	8.10	7.50
MW-102	08/22/17	15.60	9.20	6.40
MW-102	12/04/17	15.60	7.32	8.28
MW-102	03/06/18	15.60	8.61	6.99
MW-102	06/12/18	15.60	9.02	6.58
MW-102	09/05/18	15.60	9.47	6.13
MW-102	12/17/18	15.60	8.20	7.40
MW-102	03/18/19	15.60	7.69	7.91
MW-102	05/15/19	15.60	7.83	7.77
MW-102	09/17/19	15.60	9.36	6.24
MW-102	12/09/19	15.60	9.23	6.37
MW-102	04/27/20	15.60	7.97	7.63
MW-102	06/29/20	15.60	8.53	7.07
MW-102	09/21/20	15.60	9.48	6.12
MW-102	12/14/20	15.60	8.31	7.29
MW-102	04/12/21	15.60	7.77	7.83
MW-104	04/06/93	10.22	5.98	4.24
MW-104	05/13/93	10.22	6.79	3.43
MW-104	06/10/93	10.22	5.85	4.37
MW-104	07/08/93	10.22	6.13	4.09
MW-104	08/03/93	10.22	6.38	3.84
MW-104	09/08/93	10.22	6.72	3.50
MW-104	10/08/93	10.22	7.05	3.17
MW-104	11/05/93	10.22	7.26	2.96
MW-104	12/03/93	10.22	7.26	2.96
MW-104	01/05/94	10.22	6.64	3.58
MW-104	02/04/94	10.22	6.46	3.76
MW-104	08/28/95	10.22	6.43	3.79
MW-104	09/27/95	10.22	6.70	3.52
MW-104	04/27/99	10.22	2.41	7.81
MW-104	07/14/99	10.22	5.62	4.60
MW-104	10/18/99	10.22	6.80	3.42
MW-104	01/11/00	10.22	5.04	5.18
MW-104	04/05/00	10.22	4.80	5.42

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	07/18/00	10.22	6.15	4.07
MW-104	10/02/00	10.22	7.02	3.20
MW-104	01/22/01	10.22	6.45	3.77
MW-104	07/23/01	10.22	7.39	2.83
MW-104	10/16/01	10.22	8.59	1.63
MW-104	04/23/02	10.22	5.91	4.31
MW-104	07/18/02	10.22	7.07	3.15
MW-104	10/23/02	10.22	7.74	2.48
MW-104	01/28/03	10.22	6.03	4.19
MW-104	04/15/03	10.22	5.75	4.47
MW-104	07/17/03	10.22	7.08	3.14
MW-104	10/15/03	10.22	7.76	2.46
MW-104	01/13/04	10.22	5.58	4.64
MW-104	04/19/04	13.46	6.30	7.16
MW-104	07/27/04	13.46	7.25	6.21
MW-104	10/18/04	13.46	7.34	6.12
MW-104	01/24/05	13.46	6.27	7.19
MW-104	04/18/05	13.46	6.22	7.24
MW-104	07/12/05	13.46	6.81	6.65
MW-104	10/18/05	13.46	7.55	5.91
MW-104	01/25/06	13.46	4.78	8.68
MW-104	04/25/06	13.46	5.82	7.64
MW-104	10/11/06	13.46	7.54	5.92
MW-104	11/18/08	13.46	6.74	6.72
MW-104	04/08/09	13.46	6.27	7.19
MW-104	11/16/09	13.46	6.39	7.07
MW-104	04/27/10	13.46	5.45	8.01
MW-104	10/26/10	13.46	6.53	6.93
MW-104	10/25/11	13.46	7.15	6.31
MW-104	03/01/12	13.46	5.82	7.64
MW-104	05/30/12	13.46	5.74	7.72
MW-104	06/13/12	13.46	5.86	7.60
MW-104	08/23/12	13.46	6.50	6.96
MW-104	09/26/12	13.46	6.90	6.56
MW-104	11/27/12	13.46	5.24	8.22
MW-104	05/16/13	13.46	5.65	7.81
MW-104	11/07/13	13.46	6.44	7.02
MW-104	04/22/14	13.46	5.20	8.26
MW-104	11/05/14	13.46	6.02	7.44
MW-104	05/20/15	13.46	5.86	7.60

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-104	12/09/15	13.46	5.32	8.14
MW-104	12/14/16	13.46	4.78	8.68
MW-104	06/13/17	13.46	5.41	8.05
MW-104	12/04/17	13.46	5.75	7.71
MW-104	06/12/18	13.46	5.96	7.50
MW-104	12/17/18	13.46	6.23	7.23
MW-104	05/15/19	13.46	5.97	7.49
MW-104	12/09/19	13.46	6.99	6.47
MW-104	06/29/20	13.46	6.22	7.24
MW-104	12/14/20	13.46	6.18	7.28
MW-104	04/12/21	13.46	5.30	8.16
MW-105	04/06/93	9.05	4.97	4.08
MW-105	05/13/93	9.05	4.88	4.17
MW-105	06/10/93	9.05	4.83	4.22
MW-105	07/08/93	9.05	5.20	3.85
MW-105	08/03/93	9.05	5.43	3.62
MW-105	09/08/93	9.05	6.76	2.29
MW-105	10/08/93	9.05	6.06	2.99
MW-105	11/05/93	9.05	6.28	2.77
MW-105	12/03/93	9.05	6.18	2.87
MW-105	01/05/94	9.05	5.65	3.40
MW-105	02/04/94	9.05	5.63	3.42
MW-105	08/28/95	9.05	5.39	3.66
MW-105	09/27/95	9.05	5.70	3.35
MW-105	04/27/99	9.05	3.39	5.66
MW-105	07/14/99	9.05	4.58	4.47
MW-105	10/18/99	9.05	5.79	3.26
MW-105	01/11/00	9.05	3.97	5.08
MW-105	04/05/00	9.05	3.84	5.21
MW-105	07/18/00	9.05	4.90	4.15
MW-105	10/02/00	9.05	6.22	2.83
MW-105	01/22/01	9.05	5.56	3.49
MW-105	07/23/01	9.05	6.48	2.57
MW-105	04/23/02	9.05	5.25	3.80
MW-105	07/18/02	9.05	6.17	2.88
MW-105	10/23/02	9.05	6.78	2.27
MW-105	01/28/03	9.05	5.02	4.03
MW-105	04/15/03	9.05	4.97	4.08
MW-105	07/17/03	9.05	6.2	2.85

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-105	10/15/03	9.05	6.66	2.39
MW-105	01/13/04	9.05	5.01	4.04
MW-105	04/19/04	12.18	5.51	6.67
MW-105	07/27/04	12.18	6.28	5.90
MW-105	10/18/04	12.18	6.15	6.03
MW-105	01/24/05	12.18	5.02	7.16
MW-105	04/18/05	12.18	5.19	6.99
MW-105	07/12/05	12.18	5.82	6.36
MW-105	10/18/05	12.18	6.44	5.74
MW-105	01/25/06	12.18	4.05	8.13
MW-105	04/25/06	12.18	5.00	7.18
MW-105	10/11/06	12.18	6.51	5.67
MW-105	11/19/08	12.18	5.52	6.66
MW-105	11/16/09	12.18	5.03	7.15
MW-105	10/26/10	12.18	5.33	6.85
MW-105	10/25/11	12.18	6.06	6.12
MW-105	11/26/12	12.18	3.82	8.36
MW-105	11/07/13	12.18	5.42	6.76
MW-105	11/05/14	12.18	4.62	7.56
MW-105	12/08/15	12.18	4.00	8.18
MW-105	12/14/16	12.18	4.15	8.03
MW-105	12/04/17	12.18	4.55	7.63
MW-105	12/17/18	12.18	5.04	7.14
MW-105	12/09/19	12.18	5.83	6.35
MW-105	12/14/20	12.18	5.18	7.00
MW-105	04/12/21	12.18	4.55	7.63
MW-111	04/06/93	8.61	4.95	3.66
MW-111	05/13/93	8.61	4.87	3.74
MW-111	06/10/93	8.61	4.84	3.77
MW-111	07/08/93	8.61	5.11	3.50
MW-111	08/03/93	8.61	5.29	3.32
MW-111	09/08/93	8.61	5.56	3.05
MW-111	10/08/93	8.61	5.81	2.80
MW-111	11/05/93	8.61	5.97	2.64
MW-111	12/03/93	8.61	5.93	2.68
MW-111	01/05/94	8.61	5.45	3.16
MW-111	02/04/94	8.61	5.28	3.33
MW-111	08/28/95	8.61	5.28	3.33
MW-111	09/27/95	8.61	5.45	3.16

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	04/27/99	8.61	3.55	5.06
MW-111	07/14/99	8.61	4.65	3.96
MW-111	10/18/99	8.61	5.59	3.02
MW-111	01/11/00	8.61	4.18	4.43
MW-111	04/05/00	8.61	3.94	4.67
MW-111	07/13/00	8.61	5.30	3.31
MW-111	10/02/00	8.61	5.68	2.93
MW-111	01/22/01	8.61	5.37	3.24
MW-111	07/23/01	8.61	6.22	2.39
MW-111	10/16/01	8.61	7.37	1.24
MW-111	04/23/02	8.61	5.28	3.33
MW-111	07/18/02	8.61	5.94	2.67
MW-111	10/23/02	8.61	6.50	2.11
MW-111	01/28/03	8.61	5.05	3.56
MW-111	04/15/03	8.61	5.03	3.58
MW-111	07/17/03	8.61	6.05	2.56
MW-111	10/15/03	8.61	6.45	2.16
MW-111	01/13/04	8.61	4.84	3.77
MW-111	04/19/04	11.88	5.46	6.42
MW-111	07/27/04	11.88	6.16	5.72
MW-111	10/18/04	11.88	6.11	5.77
MW-111	01/24/05	11.88	5.33	6.55
MW-111	04/18/05	11.88	5.27	6.61
MW-111	07/12/05	11.88	5.75	6.13
MW-111	10/18/05	11.88	6.26	5.62
MW-111	01/25/06	11.88	4.42	7.46
MW-111	04/25/06	11.88	4.88	7.00
MW-111	10/11/06	11.88	6.30	5.58
MW-111	11/19/08	11.88	8.62	3.26
MW-111	11/16/09	11.88	5.30	6.58
MW-111	10/26/10	11.88	5.35	6.53
MW-111	10/25/11	11.88	5.89	5.99
MW-111	05/30/12	11.88	4.81	7.07
MW-111	08/23/12	11.88	Not Measured	Not Measured
MW-111	11/29/12	11.88	4.14	7.74
MW-111	05/16/13	11.88	4.63	7.25
MW-111	11/07/13	11.88	5.10	6.78
MW-111	04/22/14	11.88	4.32	7.56
MW-111	11/05/14	11.88	4.58	7.30
MW-111	12/08/15	11.88	4.36	7.52

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-111	12/14/16	11.88	4.04	7.84
MW-111	06/13/17	11.88	4.51	7.37
MW-111	12/04/17	11.88	4.59	7.29
MW-111	06/12/18	11.88	5.25	6.63
MW-111	12/17/18	11.88	4.98	6.90
MW-111	05/15/19	11.88	4.97	6.91
MW-111	12/09/19	11.88	5.66	6.22
MW-111	06/29/20	11.88	5.12	6.76
MW-111	12/14/20	11.88	5.10	6.78
MW-111	04/12/21	11.88	4.46	7.42
MW-112	04/06/93	9.98	6.69	3.29
MW-112	05/13/93	9.98	6.61	3.37
MW-112	06/10/93	9.98	6.51	3.47
MW-112	07/08/93	9.98	6.83	3.15
MW-112	08/03/93	9.98	7.00	2.98
MW-112	09/08/93	9.98	7.24	2.74
MW-112	10/08/93	9.98	7.50	2.48
MW-112	11/05/93	9.98	7.56	2.42
MW-112	12/03/93	9.98	7.41	2.57
MW-112	01/05/94	9.98	6.93	3.05
MW-112	02/04/94	9.98	6.83	3.15
MW-112	08/28/95	9.98	6.98	3.00
MW-112	09/27/95	9.98	7.13	2.85
MW-112	04/27/99	9.98	5.66	4.32
MW-112	07/14/99	9.98	6.57	3.41
MW-112	10/18/99	9.98	7.36	2.62
MW-112	01/11/00	9.98	5.89	4.09
MW-112	04/05/00	9.98	5.81	4.17
MW-112	07/18/00	9.98	7.11	2.87
MW-112	10/02/00	9.98	7.57	2.41
MW-112	04/25/06	9.98	6.44	3.54
MW-112A	04/24/02	9.98	6.85	3.13
MW-112A	07/18/02	9.98	7.22	2.76
MW-112A	10/23/02	9.98	7.52	2.46
MW-112A	01/28/03	9.98	6.25	3.73
MW-112A	04/15/03	9.98	6.47	3.51
MW-112A	07/17/03	9.98	7.3	2.68

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-112A	10/15/03	9.98	7.49	2.49
MW-112A	01/13/04	9.98	6.2	3.78
MW-112A	04/19/04	12.52	6.93	5.59
MW-112A	07/27/04	12.52	7.41	5.11
MW-112A	10/18/04	12.52	7.15	5.37
MW-112A	01/24/05	12.52	6.52	6.00
MW-112A	04/18/05	12.52	6.6	5.92
MW-112A	07/12/05	12.52	7.1	5.42
MW-112A	10/18/05	12.52	7.34	5.18
MW-112A	01/25/06	12.52	5.95	6.57
MW-112A	10/11/06	12.52	7.43	5.09
MW-112A	11/19/08	12.52	6.73	5.79
MW-112A	11/16/09	12.52	6.35	6.17
MW-112A	10/29/10	12.52	6.51	6.01
MW-112A	10/25/11	12.52	7.03	5.49
MW-112A	05/30/12	12.52	6.28	6.24
MW-112A	08/23/12	12.52	6.56	5.96
MW-112A	11/25/12	12.52	5.23	7.29
MW-112A	05/16/13	12.52	6.24	6.28
MW-112A	11/04/13	12.52	-	-
MW-112A	04/22/14	12.52	5.90	6.62
MW-112A	11/06/14	12.52	5.68	6.84
MW-112A	12/08/15	12.52	5.42	7.10
MW-112A	12/14/16	12.52	5.69	6.83
MW-112A	06/13/17	12.52	6.25	6.27
MW-112A	12/04/17	12.52	5.93	6.59
MW-112A	06/12/18	12.52	6.51	6.01
MW-112A	12/17/18	12.52	5.97	6.55
MW-112A	05/16/19	12.52	6.39	6.13
MW-112A	12/09/19	12.52	6.73	5.79
MW-112A	06/29/20	12.52	6.31	6.21
MW-112A	12/14/20	12.52	6.45	6.07
MW-112A	04/12/21	12.52	6.11	6.41
MW-201	04/06/93	17.07	14.03	3.04
MW-201	05/13/93	17.07	14.02	3.05
MW-201	06/10/93	17.07	13.97	3.10
MW-201	07/08/93	17.07	14.25	2.82
MW-201	08/03/93	17.07	14.48	2.59
MW-201	09/08/93	17.07	14.68	2.39

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	10/08/93	17.07	14.90	2.17
MW-201	11/05/93	17.07	15.03	2.04
MW-201	12/03/93	17.07	14.96	2.11
MW-201	01/05/94	17.07	14.10	2.97
MW-201	02/04/94	17.07	14.32	2.75
MW-201	08/28/95	17.07	14.49	2.58
MW-201	09/27/95	17.07	14.56	2.51
MW-201	04/27/99	17.07	13.04	4.03
MW-201	07/14/99	17.07	14.26	2.81
MW-201	10/18/99	17.07	14.93	2.14
MW-201	01/11/00	17.07	13.03	4.04
MW-201	04/05/00	17.07	13.90	3.17
MW-201	07/18/00	17.07	14.09	2.98
MW-201	10/02/00	17.07	14.82	2.25
MW-201	01/22/01	17.07	14.43	2.64
MW-201	07/23/01	17.07	14.95	2.12
MW-201	10/16/01	17.07	16.11	0.96
MW-201	04/24/02	17.07	14.23	2.84
MW-201	07/18/02	17.07	14.73	2.34
MW-201	10/23/02	17.07	15.13	1.94
MW-201	01/28/03	17.07	13.13	3.94
MW-201	04/15/03	17.07	13.58	3.49
MW-201	07/17/03	17.07	14.70	2.37
MW-201	10/15/03	17.07	14.99	2.08
MW-201	01/13/04	17.07	12.71	4.36
MW-201	04/19/04	20.18	14.07	6.11
MW-201	07/27/04	20.18	14.70	5.48
MW-201	10/18/04	20.18	14.70	5.48
MW-201	01/24/05	20.18	13.44	6.74
MW-201	04/18/05	20.18	13.73	6.45
MW-201	07/12/05	20.18	14.47	5.71
MW-201	10/18/05	20.18	14.99	5.19
MW-201	01/25/06	20.18	12.61	7.57
MW-201	04/25/06	20.18	13.94	6.24
MW-201	10/11/06	20.18	15.00	5.18
MW-201	11/20/08	20.18	13.77	6.41
MW-201	11/16/09	20.18	13.74	6.44
MW-201	10/27/10	20.18	14.42	5.76
MW-201	10/26/11	20.18	14.94	5.24
MW-201	11/27/12	20.18	13.10	7.08

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-201	02/22/13	20.18	13.74	6.44
MW-201	05/16/13	20.18	14.45	5.73
MW-201	09/06/13	20.18	14.78	5.40
MW-201	11/07/13	20.18	14.70	5.48
MW-201	04/22/14	20.18	13.42	6.76
MW-201	11/04/14	20.18	13.65	6.53
MW-201	03/10/15	20.18	13.64	6.54
MW-201	05/15/15	20.18	14.34	5.84
MW-201	07/29/15	20.18	14.65	5.53
MW-201	12/10/15	20.18	12.23	7.95
MW-201	02/23/16	20.18	12.33	7.85
MW-201	05/03/16	20.18	13.74	6.44
MW-201	08/30/16	20.18	14.04	6.14
MW-201	12/14/16	20.18	12.86	7.32
MW-201	03/13/17	20.18	12.18	8.00
MW-201	06/13/17	20.18	13.85	6.33
MW-201	08/22/17	20.18	14.43	5.75
MW-201	12/04/17	20.18	12.87	7.31
MW-201	03/06/18	20.18	13.28	6.90
MW-201	06/12/18	20.18	13.58	6.60
MW-201	09/05/18	20.18	8.22	11.96
MW-201	12/17/18	20.18	13.66	6.52
MW-201	03/18/19	20.18	13.14	7.04
MW-201	05/15/19	20.18	14.06	6.12
MW-201	09/17/19	20.18	14.64	5.54
MW-201	12/09/19	20.18	14.52	5.66
MW-201	04/27/20	20.18	14.05	6.13
MW-201	06/29/20	20.18	14.32	5.86
MW-201	09/21/20	20.18	14.59	5.59
MW-201	12/14/20	20.18	14.28	5.90
MW-201	04/12/21	20.18	13.74	6.44
MW-202	04/06/93	16.77	13.23	3.54
MW-202	05/13/93	16.77	13.17	3.60
MW-202	06/10/93	16.77	13.26	3.51
MW-202	07/08/93	16.77	13.54	3.23
MW-202	08/03/93	16.77	13.76	3.01
MW-202	09/08/93	16.77	14.04	2.73
MW-202	10/08/93	16.77	14.30	2.47
MW-202	11/05/93	16.77	14.48	2.29

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	12/03/93	16.77	14.34	2.43
MW-202	01/05/94	16.77	13.73	3.04
MW-202	02/04/94	16.77	13.63	3.14
MW-202	08/28/95	16.77	13.78	2.99
MW-202	09/27/95	16.77	13.95	2.82
MW-202	04/27/99	16.77	12.38	4.39
MW-202	07/14/99	16.77	13.57	3.20
MW-202	10/18/99	16.77	14.31	2.46
MW-202	01/11/00	16.77	12.95	3.82
MW-202	04/05/00	16.77	12.96	3.81
MW-202	07/18/00	16.77	13.21	3.56
MW-202	10/02/00	16.77	14.25	2.52
MW-202	01/22/01	16.77	14.46	2.31
MW-202	07/23/01	16.77	14.64	2.13
MW-202	10/16/01	16.77	15.81	0.96
MW-202	04/24/02	16.77	13.80	2.97
MW-202	07/18/02	16.77	14.28	2.49
MW-202	10/23/02	16.77	14.73	2.04
MW-202	01/28/03	16.77	12.95	3.82
MW-202	04/15/03	16.77	13.13	3.64
MW-202	07/17/03	16.77	14.30	2.47
MW-202	10/15/03	16.77	14.62	2.15
MW-202	01/13/04	16.77	12.81	3.96
MW-202	04/19/04	19.86	13.61	6.25
MW-202	07/27/04	19.86	14.29	5.57
MW-202	10/18/04	19.86	14.30	5.56
MW-202	01/24/05	19.86	13.29	6.57
MW-202	04/18/05	19.86	13.51	6.35
MW-202	07/12/05	19.86	14.02	5.84
MW-202	10/18/05	19.86	14.59	5.27
MW-202	01/25/06	19.86	12.38	7.48
MW-202	04/25/06	19.86	13.43	6.43
MW-202	10/11/06	19.86	14.58	5.28
MW-202	11/20/08	19.86	13.92	5.94
MW-202	04/07/09	19.86	13.71	6.15
MW-202	11/16/09	19.86	13.70	6.16
MW-202	04/27/10	19.86	13.24	6.62
MW-202	10/27/10	19.86	14.04	5.82
MW-202	10/26/11	19.86	14.45	5.41
MW-202	03/02/12	19.86	13.70	6.16

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-202	05/30/12	19.86	13.65	6.21
MW-202	06/13/12	19.86	13.76	6.10
MW-202	09/26/12	19.86	14.42	5.44
MW-202	11/27/12	19.86	13.09	6.77
MW-202	02/22/13	19.86	13.27	6.59
MW-202	05/16/13	19.86	13.80	6.06
MW-202	09/06/13	19.86	14.38	5.48
MW-202	11/07/13	19.86	14.25	5.61
MW-202	04/22/14	19.86	13.23	6.63
MW-202	11/04/14	19.86	13.44	6.42
MW-202	03/10/15	19.86	13.23	6.63
MW-202	05/15/15	19.86	13.76	6.10
MW-202	07/29/15	19.86	14.18	5.68
MW-202	12/10/15	19.86	12.76	7.10
MW-202	02/23/16	19.86	12.15	7.71
MW-202	05/03/16	19.86	13.11	6.75
MW-202	08/30/16	19.86	14.00	5.86
MW-202	12/14/16	19.86	12.81	7.05
MW-202	03/13/17	19.86	12.25	7.61
MW-202	06/13/17	19.86	13.23	6.63
MW-202	08/22/17	19.86	13.98	5.88
MW-202	12/04/17	19.86	13.15	6.71
MW-202	03/06/18	19.86	13.03	6.83
MW-202	06/12/18	19.86	13.53	6.33
MW-202	09/05/18	19.86	8.20	11.66
MW-202	12/17/18	19.86	13.45	6.41
MW-202	03/18/19	19.86	12.95	6.91
MW-202	05/15/19	19.86	13.42	6.44
MW-202	09/17/19	19.86	14.16	5.70
MW-202	12/09/19	19.86	14.10	5.76
MW-202	04/27/20	19.86	13.49	6.37
MW-202	06/29/20	19.86	13.75	6.11
MW-202	09/21/20	19.86	14.20	5.66
MW-202	12/14/20	19.86	13.65	6.21
MW-202	04/12/21	19.86	13.15	6.71
MW-203	04/06/93	11.04	7.39	3.65
MW-203	05/13/93	11.04	7.31	3.73
MW-203	06/10/93	11.04	7.40	3.64
MW-203	07/08/93	11.04	7.66	3.38

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	08/03/93	11.04	7.93	3.11
MW-203	09/08/93	11.04	8.20	2.84
MW-203	10/08/93	11.04	8.46	2.58
MW-203	11/05/93	11.04	8.65	2.39
MW-203	12/03/93	11.04	8.64	2.40
MW-203	01/05/94	11.04	7.99	3.05
MW-203	02/04/94	11.04	7.88	3.16
MW-203	08/28/95	11.04	7.86	3.18
MW-203	09/27/95	11.04	8.02	3.02
MW-203	04/27/99	11.04	6.32	4.72
MW-203	07/14/99	11.04	7.58	3.46
MW-203	10/18/99	11.04	8.42	2.62
MW-203	01/11/00	11.04	6.98	4.06
MW-203	04/05/00	11.04	6.92	4.12
MW-203	07/18/00	11.04	8.00	3.04
MW-203	10/02/00	11.04	8.40	2.64
MW-203	01/22/01	11.04	8.47	2.57
MW-203	07/23/01	11.04	8.69	2.35
MW-203	10/16/01	11.04	9.73	1.31
MW-203	04/24/02	11.04	7.45	3.59
MW-203	10/23/02	11.04	8.80	2.24
MW-203	01/28/03	11.04	6.76	4.28
MW-203	04/15/03	11.04	7.05	3.99
MW-203	07/17/03	11.04	8.25	2.79
MW-203	01/13/04	11.04	6.71	4.33
MW-203	04/19/04	13.99	7.58	6.41
MW-203	07/27/04	13.99	8.25	5.74
MW-203	10/18/04	13.99	8.34	5.65
MW-203	01/24/05	13.99	7.31	6.68
MW-203	04/18/05	13.99	7.43	6.56
MW-203	07/12/05	13.99	7.96	6.03
MW-203	10/18/05	13.99	8.64	5.35
MW-203	01/25/06	13.99	6.41	7.58
MW-203	04/25/06	13.99	7.18	6.81
MW-203	10/11/06	13.99	8.58	5.41
MW-203	11/18/08	13.99	8.01	5.98
MW-203	04/08/09	13.99	7.63	6.36
MW-203	11/16/09	13.99	4.97	9.02
MW-203	04/26/10	13.99	7.17	6.82
MW-203	10/25/10	13.99	8.10	5.89

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-203	10/26/11	13.99	5.45	8.54
MW-203	05/30/12	13.99	7.61	6.38
MW-203	06/13/12	13.99	7.65	6.34
MW-203	09/26/12	13.99	8.40	5.59
MW-203	11/27/12	13.99	7.25	6.74
MW-203	02/22/13	13.99	7.26	6.73
MW-203	05/16/13	13.99	7.80	6.19
MW-203	09/06/13	13.99	8.37	5.62
MW-203	11/07/13	13.99	8.27	5.72
MW-203	04/22/14	13.99	7.33	6.66
MW-203	11/04/14	13.99	7.59	6.40
MW-203	03/10/15	13.99	6.70	7.29
MW-203	05/15/15	13.99	7.74	6.25
MW-203	07/29/15	13.99	8.18	5.81
MW-203	12/10/15	13.99	6.83	7.16
MW-203	02/23/16	13.99	5.92	8.07
MW-203	05/03/16	13.99	7.02	6.97
MW-203	08/30/16	13.99	8.17	5.82
MW-203	12/14/16	13.99	6.62	7.37
MW-203	03/13/17	13.99	5.83	8.16
MW-203	06/13/17	13.99	7.17	6.82
MW-203	08/22/17	13.99	7.98	6.01
MW-203	12/04/17	13.99	7.24	6.75
MW-203	03/06/18	13.99	6.57	7.42
MW-203	06/12/18	13.99	7.55	6.44
MW-203	09/05/18	13.99	8.14	5.85
MW-203	12/17/18	13.99	7.68	6.31
MW-203	03/18/19	13.99	6.96	7.03
MW-203	05/16/19	13.99	7.38	6.61
MW-203	09/17/19	13.99	8.19	5.80
MW-203	12/09/19	13.99	8.13	5.86
MW-203	04/27/20	13.99	7.39	6.60
MW-203	06/29/20	13.99	7.55	6.44
MW-203	09/21/20	13.99	8.14	5.85
MW-203	12/14/20	13.99	7.62	6.37
MW-203	04/12/21	13.99	7.13	6.86
MW-204	04/06/93	14.21	10.97	3.24
MW-204	05/13/93	14.21	10.92	3.29
MW-204	06/10/93	14.21	10.98	3.23

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	07/08/93	14.21	11.20	3.01
MW-204	08/03/93	14.21	11.44	2.77
MW-204	09/08/93	14.21	11.64	2.57
MW-204	10/08/93	14.21	11.85	2.36
MW-204	11/05/93	14.21	12.03	2.18
MW-204	12/03/93	14.21	12.01	2.20
MW-204	01/05/94	14.21	11.42	2.79
MW-204	02/04/94	14.21	11.35	2.86
MW-204	08/28/95	14.21	11.58	2.63
MW-204	09/27/95	14.21	11.57	2.64
MW-204	04/05/00	14.21	Not Measured	Not Measured
MW-204	10/02/00	14.21	Not Measured	Not Measured
MW-204	01/22/01	14.21	11.69	2.52
MW-204	07/23/01	14.21	12.05	2.16
MW-204	10/16/01	14.21	13.17	1.04
MW-204	07/27/04	14.21	11.67	2.54
MW-204	10/18/04	17.27	11.71	5.56
MW-204	01/24/05	17.27	10.72	6.55
MW-204	04/18/05	17.27	10.98	6.29
MW-204	07/12/05	17.27	11.4	5.87
MW-204	10/18/05	17.27	11.98	5.29
MW-204	01/25/06	17.27	9.96	7.31
MW-204	10/11/06	17.27	11.96	5.31
MW-204	11/20/08	17.27	11.45	5.82
MW-204	11/16/09	17.27	11.20	6.07
MW-204	10/27/10	17.27	11.54	5.73
MW-204	10/27/11	17.27	10.71	6.56
MW-204	03/26/12	17.27	Not Measured	Not Measured
MW-204	06/12/12	17.27	11.20	6.07
MW-204	09/27/12	17.27	Not Measured	Not Measured
MW-204	11/27/12	17.27	10.81	6.46
MW-204	12/20/12	17.27	Not Measured	Not Measured
MW-204	02/22/13	17.27	10.81	6.46
MW-204	05/16/13	17.27	11.30	5.97
MW-204	09/06/13	17.27	11.77	5.50
MW-204	11/07/13	17.27	11.71	5.56
MW-204	04/22/14	17.27	10.78	6.49
MW-204	11/04/14	17.27	11.04	6.23
MW-204	03/10/15	17.27	10.75	6.52
MW-204	05/15/15	17.27	11.21	6.06

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-204	07/29/15	17.27	11.59	5.68
MW-204	12/10/15	17.27	9.91	7.36
MW-204	02/23/16	17.27	9.67	7.60
MW-204	05/03/16	17.27	10.53	6.74
MW-204	08/30/16	17.27	11.78	5.49
MW-204	12/14/16	17.27	10.34	6.93
MW-204	03/13/17	17.27	9.83	7.44
MW-204	08/22/17	17.27	11.34	5.93
MW-204	12/04/17	17.27	10.84	6.43
MW-204	03/06/18	17.27	10.55	6.72
MW-204	06/12/18	17.27	11.04	6.23
MW-204	09/05/18	17.27	8.20	9.07
MW-204	12/17/18	17.27	11.10	6.17
MW-204	03/18/19	17.27	10.51	6.76
MW-204	05/15/19	17.27	10.98	6.29
MW-204	09/17/19	17.27	11.65	5.62
MW-204	12/09/19	17.27	11.54	5.73
MW-204	04/27/20	17.27	10.94	6.33
MW-204	06/29/20	17.27	11.26	6.01
MW-204	09/21/20	17.27	11.59	5.68
MW-204	12/14/20	17.27	11.22	6.05
MW-204	04/12/21	17.27	10.71	6.56
MW-206	04/06/93	10.75	9.83	0.92
MW-206	05/13/93	10.75	6.72	4.03
MW-206	06/10/93	10.75	6.78	3.97
MW-206	07/08/93	10.75	7.08	3.67
MW-206	08/03/93	10.75	7.35	3.40
MW-206	09/08/93	10.75	7.66	3.09
MW-206	10/08/93	10.75	7.95	2.80
MW-206	11/05/93	10.75	8.15	2.60
MW-206	12/03/93	10.75	8.17	2.58
MW-206	01/05/94	10.75	7.42	3.33
MW-206	02/04/94	10.75	7.24	3.51
MW-206	08/28/95	10.75	7.01	3.74
MW-206	09/27/95	10.75	7.19	3.56
MW-206	04/27/99	10.75	5.59	5.16
MW-206	07/14/99	10.75	6.97	3.78
MW-206	10/18/99	10.75	7.88	2.87
MW-206	01/11/00	10.75	6.34	4.41

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206	04/05/00	10.75	6.32	4.43
MW-206	07/18/00	10.75	7.11	3.64
MW-206	10/02/00	10.75	7.92	2.83
MW-206	01/22/01	10.75	8.93	1.82
MW-206	04/25/06	10.75	9.30	1.45
MW-206	10/11/06	10.75	10.44	0.31
MW-206A	04/24/02	10.75	7.43	3.32
MW-206A	07/18/02	10.75	8.07	2.68
MW-206A	10/23/02	10.75	8.55	2.20
MW-206A	01/28/03	10.75	6.40	4.35
MW-206A	04/15/03	10.75	5.26	5.49
MW-206A	07/17/03	10.75	8.06	2.69
MW-206A	04/19/04	15.90	9.51	6.39
MW-206A	07/27/04	15.90	10.23	5.67
MW-206A	10/18/04	15.90	10.17	5.73
MW-206A	01/24/05	15.90	9.18	6.72
MW-206A	04/18/05	15.90	9.38	6.52
MW-206A	07/12/05	15.90	9.87	6.03
MW-206A	10/18/05	15.90	10.50	5.40
MW-206A	01/25/06	15.90	8.23	7.67
MW-206A	11/20/08	15.90	9.81	6.09
MW-206A	11/16/09	15.90	9.48	6.42
MW-206A	10/25/10	15.90	9.74	6.16
MW-206A	10/26/11	15.90	10.25	5.65
MW-206A	05/30/12	15.90	9.44	6.46
MW-206A	06/13/12	15.90	9.49	6.41
MW-206A	09/26/12	15.90	10.21	5.69
MW-206A	11/27/12	15.90	9.05	6.85
MW-206A	02/22/13	15.90	9.04	6.86
MW-206A	05/16/13	15.90	8.44	7.46
MW-206A	09/06/13	15.90	10.06	5.84
MW-206A	11/07/13	15.90	10.04	5.86
MW-206A	04/22/14	15.90	9.01	6.89
MW-206A	11/04/14	15.90	9.25	6.65
MW-206A	03/10/15	15.90	9.03	6.87
MW-206A	05/15/15	15.90	9.49	6.41
MW-206A	07/29/15	15.90	9.99	5.91
MW-206A	12/10/15	15.90	8.36	7.54
MW-206A	02/23/16	15.90	8.09	7.81

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-206A	05/03/16	15.90	9.03	6.87
MW-206A	08/30/16	15.90	10.25	5.65
MW-206A	12/14/16	15.90	8.51	7.39
MW-206A	03/13/17	15.90	7.98	7.92
MW-206A	06/13/17	15.90	9.02	6.88
MW-206A	08/22/17	15.90	9.74	6.16
MW-206A	12/04/17	15.90	9.07	6.83
MW-206A	03/06/18	15.90	8.78	7.12
MW-206A	06/12/18	15.90	6.90	9.00
MW-206A	09/05/18	15.90	9.94	5.96
MW-206A	12/17/18	15.90	9.23	6.67
MW-206A	03/18/19	15.90	8.86	7.04
MW-206A	05/15/19	15.90	9.30	6.60
MW-206A	09/17/19	15.90	10.13	5.77
MW-206A	12/09/19	15.90	9.98	5.92
MW-206A	04/27/20	15.90	9.22	6.68
MW-206A	06/29/20	15.90	9.40	6.50
MW-206A	09/21/20	15.90	10.08	5.82
MW-206A	12/14/20	15.90	7.15	8.75
MW-206A	04/12/21	15.90	7.20	8.70
MW-208	06/28/13	--	4.98	--
MW-208	09/11/13	--	5.67	--
MW-208	10/30/13	--	5.97	--
MW-208	11/05/13	--	5.51	--
MW-208	01/16/14	--	5.46	--
MW-208	02/27/14	--	4.72	--
MW-208	03/25/14	--	4.91	--
MW-208	04/22/14	--	4.98	--
MW-208	06/10/14	--	5.62	--
MW-208	07/24/14	--	5.50	--
MW-208	08/28/14	--	5.73	--
MW-208	09/23/14	--	5.76	--
MW-208	10/22/14	--	4.82	--
MW-208	11/05/14	--	4.50	--
MW-208	12/18/14	12.16	4.28	7.88
MW-208	01/27/15	12.16	4.52	7.64
MW-208	02/26/15	12.16	4.92	7.24
MW-208	03/11/15	12.16	5.29	6.87
MW-208	04/21/15	12.16	5.08	7.08
MW-208	05/19/15	12.16	5.31	6.85

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	06/11/15	12.16	5.34	6.82
MW-208	07/29/15	12.16	5.81	6.35
MW-208	08/25/15	12.16	5.95	6.21
MW-208	09/24/15	12.16	5.72	6.44
MW-208	10/15/15	12.16	5.35	6.81
MW-208	11/20/15	12.16	4.37	7.79
MW-208	12/09/15	12.16	2.55	9.61
MW-208	02/23/16	12.16	4.18	7.98
MW-208	04/22/16	12.16	4.90	7.26
MW-208	05/03/16	12.16	5.27	6.89
MW-208	06/02/16	12.16	5.34	6.82
MW-208	07/14/16	12.16	5.58	6.58
MW-208	08/18/16	12.16	5.80	6.36
MW-208	09/08/16	12.16	5.88	6.28
MW-208	10/21/16	12.16	5.40	6.76
MW-208	11/17/16	12.16	3.67	8.49
MW-208	12/01/16	12.16	3.93	8.23
MW-208	01/11/17	12.16	2.83	9.33
MW-208	02/14/17	12.16	3.81	8.35
MW-208	03/13/17	12.16	4.04	8.12
MW-208	04/13/17	12.16	3.78	8.38
MW-208	05/08/17	12.16	4.78	7.38
MW-208	06/13/17	12.16	5.00	7.16
MW-208	07/18/17	12.16	5.32	6.84
MW-208	08/22/17	12.16	5.32	6.84
MW-208	09/13/17	12.16	5.68	6.48
MW-208	10/31/17	12.16	5.58	6.58
MW-208	11/13/17	12.16	4.67	7.49
MW-208	12/04/17	12.16	4.15	8.01
MW-208	03/06/18	12.16	4.57	7.59
MW-208	06/12/18	12.16	5.25	6.91
MW-208	09/05/18	12.16	5.75	6.41
MW-208	12/17/18	12.16	4.13	8.03
MW-208	01/16/19	12.16	4.48	7.68
MW-208	02/20/19	12.16	3.98	8.18
MW-208	03/18/19	12.16	4.95	7.21
MW-208	04/10/19	12.16	4.66	7.50
MW-208	05/15/19	12.16	4.91	7.25
MW-208	06/26/19	12.16	5.47	6.69
MW-208	07/24/19	12.16	5.43	6.73

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-208	08/13/19	12.16	5.45	6.71
MW-208	09/17/19	12.16	5.23	6.93
MW-208	10/16/19	12.16	5.61	6.55
MW-208	11/05/19	12.16	5.62	6.54
MW-208	12/09/19	12.16	5.08	7.08
MW-208	01/28/20	12.16	3.05	9.11
MW-208	02/26/20	12.16	4.81	7.35
MW-208	04/27/20	12.16	5.18	6.98
MW-208	06/16/20	12.16	5.25	6.91
MW-208	06/29/20	12.16	5.08	7.08
MW-208	07/29/20	12.16	5.20	6.96
MW-208	08/27/20	12.16	5.41	6.75
MW-208	09/21/20	12.16	5.09	7.07
MW-208	10/29/20	12.16	5.58	6.58
MW-208	11/30/20	12.16	4.82	7.34
MW-208	12/14/20	12.16	4.75	7.41
MW-208	01/21/21	12.16	4.27	7.89
MW-208	02/16/21	12.16	3.69	8.47
MW-208	03/23/21	12.16	4.53	7.63
MW-208	04/12/21	12.16	5.28	6.88
MW-209	09/11/13	--	6.61	--
MW-209	10/30/13	--	5.65	--
MW-209	01/16/14	--	5.56	--
MW-209	02/27/14	--	6.04	--
MW-209	03/25/14	--	5.90	--
MW-209	04/22/14	--	5.89	--
MW-209	06/10/14	--	8.31	--
MW-209	07/24/14	--	6.91	--
MW-209	08/28/14	--	6.79	--
MW-209	09/23/14	--	5.73	--
MW-209	10/22/14	--	4.91	--
MW-209	11/05/14	--	6.60	--
MW-209	12/18/14	12.10	5.27	6.83
MW-209	01/27/15	12.10	4.88	7.22
MW-209	02/26/15	12.10	5.54	6.56
MW-209	03/11/15	12.10	5.55	6.55
MW-209	05/19/15	12.10	8.60	3.50
MW-210	03/29/13	--	6.53	--

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	06/28/13	--	6.35	--
MW-210	09/11/13	--	6.63	--
MW-210	10/30/13	--	7.08	--
MW-210	11/05/13	--	6.41	--
MW-210	01/16/14	--	6.48	--
MW-210	02/27/14	--	6.79	--
MW-210	03/25/14	--	6.96	--
MW-210	04/22/14	--	6.32	--
MW-210	06/10/14	--	7.08	--
MW-210	07/24/14	--	6.64	--
MW-210	08/28/14	--	6.72	--
MW-210	09/23/14	--	6.56	--
MW-210	10/22/14	--	5.87	--
MW-210	11/05/14	--	6.45	--
MW-210	12/18/14	12.85	5.49	7.36
MW-210	01/27/15	12.85	6.15	6.70
MW-210	02/26/15	12.85	6.69	6.16
MW-210	03/11/15	12.85	6.56	6.29
MW-210	04/21/15	12.85	6.44	6.41
MW-210	05/19/15	12.85	6.50	6.35
MW-210	06/11/15	12.85	6.48	6.37
MW-210	07/29/15	12.85	6.73	6.12
MW-210	08/25/15	12.85	6.23	6.62
MW-210	09/24/15	12.85	6.60	6.25
MW-210	10/15/15	12.85	6.30	6.55
MW-210	11/20/15	12.85	6.47	6.38
MW-210	12/09/15	12.85	4.45	8.40
MW-210	02/23/16	12.85	5.82	7.03
MW-210	04/22/16	12.85	5.96	6.89
MW-210	05/03/16	12.85	6.42	6.43
MW-210	06/02/16	12.85	6.44	6.41
MW-210	07/14/16	12.85	6.67	6.18
MW-210	08/18/16	12.85	6.78	6.07
MW-210	09/08/16	12.85	6.78	6.07
MW-210	10/21/16	12.85	6.32	6.53
MW-210	11/17/16	12.85	5.43	7.42
MW-210	12/01/16	12.85	6.00	6.85
MW-210	01/11/17	12.85	5.38	7.47
MW-210	02/14/17	12.85	5.69	7.16
MW-210	03/13/17	12.85	5.98	6.87

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-210	04/13/17	12.85	6.42	6.43
MW-210	05/08/17	12.85	6.74	6.11
MW-210	06/13/17	12.85	6.18	6.67
MW-210	07/18/17	12.85	6.47	6.38
MW-210	08/22/17	12.85	6.42	6.43
MW-210	09/13/17	12.85	6.60	6.25
MW-210	10/31/17	12.85	6.64	6.21
MW-210	11/13/17	12.85	6.08	6.77
MW-210	12/04/17	12.85	6.05	6.80
MW-210	03/06/18	12.85	6.19	6.66
MW-210	06/12/18	12.85	6.50	6.35
MW-210	09/05/18	12.85	6.74	6.11
MW-210	12/17/18	12.85	5.31	7.54
MW-210	01/16/19	12.85	6.07	6.78
MW-210	02/20/19	12.85	6.45	6.40
MW-210	03/18/19	12.85	6.67	6.18
MW-210	04/10/19	12.85	5.24	7.61
MW-210	05/15/19	12.85	7.05	5.80
MW-210	06/26/19	12.85	6.58	6.27
MW-210	07/24/19	12.85	5.59	7.26
MW-210	08/13/19	12.85	6.58	6.27
MW-210	09/17/19	12.85	6.18	6.67
MW-210	10/16/19	12.85	6.47	6.38
MW-210	11/05/19	12.85	6.78	6.07
MW-210	12/09/19	12.85	6.27	6.58
MW-210	01/28/20	12.85	4.06	8.79
MW-210	02/26/20	12.85	5.78	7.07
MW-210	04/27/20	12.85	6.43	6.42
MW-210	06/16/20	12.85	5.56	7.29
MW-210	06/29/20	12.85	6.58	6.27
MW-210	07/29/20	12.85	6.43	6.42
MW-210	08/27/20	12.85	6.71	6.14
MW-210	09/21/20	12.85	6.35	6.50
MW-210	10/29/20	12.85	6.87	5.98
MW-210	11/30/20	12.85	6.23	6.62
MW-210	12/14/20	12.85	6.05	6.80
MW-210	01/21/21	12.85	6.96	5.89
MW-210	02/16/21	12.85	5.83	7.02
MW-210	03/23/21	12.85	6.57	6.28
MW-210	04/12/21	12.85	6.42	6.43

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	03/29/13	--	5.97	--
MW-211	06/28/13	--	5.68	--
MW-211	10/30/13	--	6.43	--
MW-211	11/05/13	--	5.68	--
MW-211	01/16/14	--	5.51	--
MW-211	02/27/14	--	5.01	--
MW-211	03/25/14	--	5.38	--
MW-211	04/22/14	--	5.33	--
MW-211	06/10/14	--	6.02	--
MW-211	07/24/14	--	6.85	--
MW-211	08/28/14	--	6.06	--
MW-211	09/23/14	--	5.96	--
MW-211	10/22/14	--	4.96	--
MW-211	11/05/14	--	4.70	--
MW-211	12/18/14	12.21	4.50	7.71
MW-211	01/27/15	12.21	4.82	7.39
MW-211	02/26/15	12.21	5.38	6.83
MW-211	03/11/15	12.21	5.52	6.69
MW-211	04/21/15	12.21	5.50	6.71
MW-211	05/19/15	12.21	5.71	6.50
MW-211	06/11/15	12.21	5.70	6.51
MW-211	07/29/15	12.21	6.10	6.11
MW-211	08/25/15	12.21	6.17	6.04
MW-211	09/24/15	12.21	5.72	6.49
MW-211	10/15/15	12.21	5.30	6.91
MW-211	11/20/15	12.21	4.78	7.43
MW-211	12/09/15	12.21	2.80	9.41
MW-211	02/23/16	12.21	4.45	7.76
MW-211	04/22/16	12.21	4.67	7.54
MW-211	05/03/16	12.21	5.63	6.58
MW-211	06/02/16	12.21	5.77	6.44
MW-211	07/14/16	12.21	6.02	6.19
MW-211	08/18/16	12.21	6.16	6.05
MW-211	09/08/16	12.21	6.22	5.99
MW-211	10/21/16	12.21	6.01	6.20
MW-211	11/17/16	12.21	3.86	8.35
MW-211	12/01/16	12.21	4.14	8.07
MW-211	01/11/17	12.21	3.18	9.03
MW-211	02/14/17	12.21	4.02	8.19

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	03/13/17	12.21	4.27	7.94
MW-211	04/13/17	12.21	4.02	8.19
MW-211	05/08/17	12.21	5.32	6.89
MW-211	06/13/17	12.21	5.36	6.85
MW-211	07/18/17	12.21	5.78	6.43
MW-211	08/22/17	12.21	5.76	6.45
MW-211	09/13/17	12.21	Not Measured	Not Measured
MW-211	10/31/17	12.21	Not Measured	Not Measured
MW-211	11/13/17	12.21	Not Measured	Not Measured
MW-211	12/04/17	12.21	Not Measured	Not Measured
MW-211	03/06/18	12.21	5.03	7.18
MW-211	06/12/18	12.21	5.73	6.48
MW-211	09/05/18	12.21	6.16	6.05
MW-211	12/17/18	12.21	4.14	8.07
MW-211	01/16/19	12.21	4.30	7.91
MW-211	02/20/19	12.21	4.22	7.99
MW-211	03/18/19	12.21	5.34	6.87
MW-211	04/10/19	12.21	4.66	7.55
MW-211	05/15/19	12.21	5.38	6.83
MW-211	06/26/19	12.21	6.88	5.33
MW-211	07/24/19	12.21	5.88	6.33
MW-211	08/13/19	12.21	5.72	6.49
MW-211	09/17/19	12.21	5.54	6.67
MW-211	10/16/19	12.21	5.77	6.44
MW-211	11/05/19	12.21	6.01	6.20
MW-211	12/09/19	12.21	5.54	6.67
MW-211	01/28/20	12.21	3.12	9.09
MW-211	02/26/20	12.21	5.19	7.02
MW-211	04/27/20	12.21	5.47	6.74
MW-211	06/16/20	12.21	5.72	6.49
MW-211	06/29/20	12.21	5.78	6.43
MW-211	07/29/20	12.21	5.67	6.54
MW-211	08/27/20	12.21	5.85	6.36
MW-211	09/21/20	12.21	5.45	6.76
MW-211	10/29/20	12.21	5.99	6.22
MW-211	11/30/20	12.21	5.11	7.10
MW-211	12/14/20	12.21	5.28	6.93
MW-211	01/21/21	12.21	4.82	7.39
MW-211	02/16/21	12.21	4.18	8.03
MW-211	03/23/21	12.21	5.37	6.84

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-211	04/12/21	12.21	5.65	6.56
MW-212	03/29/13	--	4.90	--
MW-212	06/28/13	--	4.42	--
MW-212	09/11/13	--	5.32	--
MW-212	09/12/13	--	5.52	--
MW-212	10/30/13	--	5.28	--
MW-212	11/05/13	--	5.51	--
MW-212	01/16/14	--	5.47	--
MW-212	02/27/14	--	6.12	--
MW-212	03/25/14	--	6.30	--
MW-212	04/22/14	--	5.85	--
MW-212	06/10/14	--	Not Measured	Not Measured
MW-212	07/24/14	--	6.06	--
MW-212	08/28/14	--	6.23	--
MW-212	09/23/14	--	6.08	--
MW-212	10/22/14	--	4.13	--
MW-212	11/05/14	--	5.12	--
MW-212	12/18/14	11.95	4.89	7.06
MW-212	01/27/15	11.95	5.38	6.57
MW-212	02/26/15	11.95	5.59	6.36
MW-212	03/11/15	11.95	5.45	6.50
MW-212	04/21/15	11.95	5.85	6.10
MW-212	05/19/15	11.95	5.67	6.28
MW-212	06/11/15	11.95	5.46	6.49
MW-212	07/29/15	11.95	5.85	6.10
MW-212	08/25/15	11.95	6.82	5.13
MW-212	09/24/15	11.95	6.33	5.62
MW-212	10/15/15	11.95	5.82	6.13
MW-212	11/20/15	11.95	5.51	6.44
MW-212	12/09/15	11.95	3.61	8.34
MW-212	02/23/16	11.95	4.38	7.57
MW-212	04/22/16	11.95	5.37	6.58
MW-212	05/03/16	11.95	6.00	5.95
MW-212	06/02/16	11.95	6.18	5.77
MW-212	07/14/16	11.95	6.27	5.68
MW-212	08/18/16	11.95	6.44	5.51
MW-212	09/08/16	11.95	6.55	5.40
MW-212	10/21/16	11.95	6.10	5.85
MW-212	11/17/16	11.95	4.68	7.27

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	12/01/16	11.95	4.88	7.07
MW-212	01/11/17	11.95	3.88	8.07
MW-212	02/14/17	11.95	4.79	7.16
MW-212	03/13/17	11.95	4.98	6.97
MW-212	04/13/17	11.95	5.02	6.93
MW-212	05/08/17	11.95	5.31	6.64
MW-212	06/13/17	11.95	5.60	6.35
MW-212	07/18/17	11.95	5.83	6.12
MW-212	08/22/17	11.95	5.92	6.03
MW-212	09/13/17	11.95	6.21	5.74
MW-212	10/31/17	11.95	6.17	5.78
MW-212	11/13/17	11.95	4.98	6.97
MW-212	12/04/17	11.95	5.38	6.57
MW-212	03/06/18	11.95	5.46	6.49
MW-212	06/12/18	11.95	6.06	5.89
MW-212	09/05/18	11.95	6.35	5.60
MW-212	12/17/18	11.95	4.43	7.52
MW-212	01/16/19	11.95	5.56	6.39
MW-212	02/20/19	11.95	4.32	7.63
MW-212	03/18/19	11.95	6.12	5.83
MW-212	04/10/19	11.95	5.78	6.17
MW-212	05/15/19	11.95	6.13	5.82
MW-212	06/26/19	11.95	6.11	5.84
MW-212	07/24/19	11.95	5.96	5.99
MW-212	08/13/19	11.95	6.02	5.93
MW-212	09/17/19	11.95	6.28	5.67
MW-212	10/16/19	11.95	6.36	5.59
MW-212	11/05/19	11.95	6.51	5.44
MW-212	12/09/19	11.95	6.14	5.81
MW-212	01/28/20	11.95	2.03	9.92
MW-212	02/26/20	11.95	4.97	6.98
MW-212	04/27/20	11.95	5.29	6.66
MW-212	06/16/20	11.95	6.25	5.70
MW-212	06/29/20	11.95	5.85	6.10
MW-212	07/29/20	11.95	6.31	5.64
MW-212	08/27/20	11.95	6.15	5.80
MW-212	09/21/20	11.95	6.23	5.72
MW-212	10/29/20	11.95	6.23	5.72
MW-212	11/30/20	11.95	5.10	6.85
MW-212	12/14/20	11.95	5.83	6.12

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-212	01/21/21	11.95	5.63	6.32
MW-212	02/16/21	11.95	4.25	7.70
MW-212	03/23/21	11.95	5.74	6.21
MW-212	04/12/21	11.95	6.31	5.64
MW-213	07/23/01	8.57	10.17	-1.60
MW-213	10/16/01	8.57	5.81	2.76
MW-213	04/24/02	8.57	7.34	1.23
MW-213	07/18/02	8.57	7.39	1.18
MW-213	10/23/02	8.57	5.04	3.53
MW-213	01/28/03	8.57	4.60	3.97
MW-213	04/15/03	8.57	4.43	4.14
MW-213	07/17/03	8.57	10.24	-1.67
MW-213	10/15/03	8.57	5.85	2.72
MW-213	01/13/04	8.57	5.02	3.55
MW-213	04/19/04	8.57	7.91	0.66
MW-213	07/27/04	8.57	6.94	1.63
MW-213	10/18/04	8.57	5.70	2.87
MW-213	01/24/05	8.57	4.70	3.87
MW-213	04/18/05	8.57	7.43	1.14
MW-213	07/12/05	8.57	8.72	-0.15
MW-213	10/18/05	8.57	7.24	1.33
MW-213	01/25/06	8.57	5.79	2.78
MW-213	04/25/06	8.57	7.82	0.75
MW-213	10/11/06	8.57	6.09	2.48
MW-213	11/19/08	8.57	5.98	2.59
MW-213	04/07/09	8.57	7.69	0.88
MW-213	11/16/09	8.57	4.97	3.60
MW-213	04/26/10	8.57	8.22	0.35
MW-213	10/28/10	8.57	5.33	3.24
MW-213	10/25/11	8.57	7.43	1.14
MW-213	06/12/12	8.57	7.84	0.73
MW-213	11/29/12	8.57	4.65	3.92
MW-213	05/15/13	8.57	8.86	-0.29
MW-213	10/30/13	8.57	5.45	3.12
MW-213	11/05/13	8.57	5.29	3.28
MW-213	04/22/14	8.57	6.39	2.18
MW-213	11/05/14	12.17	6.55	5.62
MW-213	05/19/15	12.17	7.85	4.32
MW-213	12/09/15	12.17	4.18	7.99

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-213	12/14/16	12.17	5.22	6.95
MW-213	06/13/17	12.17	5.75	6.42
MW-213	12/04/17	12.17	6.33	5.84
MW-213	06/12/18	12.17	9.38	2.79
MW-213	12/17/18	12.17	3.87	8.30
MW-213	05/15/19	12.17	8.76	3.41
MW-213	12/09/19	12.17	6.26	5.91
MW-213	06/29/20	12.17	7.30	4.87
MW-213	12/14/20	12.17	5.21	6.96
MW-213	04/12/21	12.17	6.01	6.16
MW-214	07/23/01	8.63	10.37	-1.74
MW-214	10/19/01	8.63	5.74	2.89
MW-214	04/24/02	8.63	7.94	0.69
MW-214	07/18/02	8.63	7.25	1.38
MW-214	10/23/02	8.63	5.85	2.78
MW-214	01/28/03	8.63	4.25	4.38
MW-214	04/15/03	8.63	4.66	3.97
MW-214	07/17/03	8.63	10.40	-1.77
MW-214	10/15/03	8.63	4.89	3.74
MW-214	01/13/04	8.63	4.86	3.77
MW-214	04/19/04	8.63	7.92	0.71
MW-214	07/27/04	8.63	6.42	2.21
MW-214	10/18/04	8.63	5.37	3.26
MW-214	01/24/05	8.63	5.00	3.63
MW-214	04/18/05	8.63	7.65	0.98
MW-214	07/12/05	8.63	8.82	-0.19
MW-214	10/18/05	8.63	7.18	1.45
MW-214	01/25/06	8.63	5.96	2.67
MW-214	04/25/06	8.63	7.80	0.83
MW-214	10/11/06	8.63	5.95	2.68
MW-214	11/19/08	8.63	5.50	3.13
MW-214	04/07/09	12.92	7.05	5.87
MW-214	11/16/09	12.92	5.28	7.64
MW-214	04/26/10	12.92	7.80	5.12
MW-214	10/28/10	12.92	5.25	7.67
MW-214	10/25/11	12.92	7.78	5.14
MW-214	06/12/12	12.92	7.80	5.12
MW-214	11/29/12	12.92	5.00	7.92
MW-214	05/15/13	12.92	9.23	3.69

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-214	10/30/13	12.92	7.88	5.04
MW-214	11/05/13	12.92	5.38	7.54
MW-214	02/27/14	12.92	6.08	6.84
MW-214	04/22/14	12.92	6.78	6.14
MW-214	11/05/14	12.39	6.80	5.59
MW-214	05/19/15	12.39	8.10	4.29
MW-214	12/09/15	12.39	4.74	7.65
MW-214	12/14/16	12.39	5.58	6.81
MW-214	06/13/17	12.39	6.04	6.35
MW-214	12/04/17	12.39	6.41	5.98
MW-214	06/12/18	12.39	9.70	2.69
MW-214	12/17/18	12.39	4.13	8.26
MW-214	05/15/19	12.39	7.81	4.58
MW-214	12/09/19	12.39	6.39	6.00
MW-214	06/29/20	12.39	7.59	4.80
MW-214	12/14/20	12.39	5.32	7.07
MW-214	04/12/21	12.39	5.87	6.52
MW-301	03/02/12	12.56	6.03	6.53
MW-301	05/30/12	12.56	6.03	6.53
MW-301	06/13/12	12.56	6.11	6.45
MW-301	09/26/12	12.56	6.82	5.74
MW-301	11/27/12	12.56	5.34	7.22
MW-301	02/21/13	12.56	5.66	6.90
MW-301	05/16/13	12.56	6.14	6.42
MW-301	09/06/13	12.56	6.71	5.85
MW-301	11/07/13	12.56	6.60	5.96
MW-301	04/22/14	12.56	5.56	7.00
MW-301	07/24/14	12.56	6.38	6.18
MW-301	09/23/14	12.56	6.71	5.85
MW-301	11/04/14	12.56	5.73	6.83
MW-301	03/10/15	12.56	5.64	6.92
MW-301	05/15/15	12.56	6.10	6.46
MW-301	07/29/15	12.56	6.63	5.93
MW-301	12/10/15	12.56	4.57	7.99
MW-301	02/23/16	12.56	4.50	8.06
MW-301	05/03/16	12.56	5.53	7.03
MW-301	08/30/16	12.56	6.68	5.88
MW-301	12/14/16	12.56	5.08	7.48
MW-301	03/13/17	12.56	7.60	4.96

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-301	05/16/17	12.56	5.21	7.35
MW-301	06/13/17	12.56	5.70	6.86
MW-301	08/22/17	12.56	6.43	6.13
MW-301	12/04/17	12.56	5.40	7.16
MW-301	03/06/18	12.56	5.37	7.19
MW-301	06/12/18	12.56	5.90	6.66
MW-301	09/05/18	12.56	6.58	5.98
MW-301	12/17/18	12.56	5.75	6.81
MW-301	03/18/19	12.56	5.23	7.33
MW-301	05/16/19	12.56	5.74	6.82
MW-301	09/17/19	12.56	6.49	6.07
MW-301	12/09/19	12.56	6.41	6.15
MW-301	04/27/20	12.56	5.50	7.06
MW-301	06/29/20	12.56	5.85	6.71
MW-301	09/21/20	12.56	6.57	5.99
MW-301	12/14/20	12.56	5.90	6.66
MW-301	04/12/21	12.56	5.26	7.30
MW-302	03/01/12	12.85	6.47	6.38
MW-302	05/30/12	12.85	Not Measured	Not Measured
MW-302	06/13/12	12.85	Not Measured	Not Measured
MW-302	09/26/12	12.85	7.23	5.62
MW-302	11/27/12	12.85	5.83	7.02
MW-302	02/22/13	12.85	6.10	6.75
MW-302	05/16/13	12.85	6.61	6.24
MW-302	09/06/13	12.85	7.11	5.74
MW-302	11/07/13	12.85	6.99	5.86
MW-302	01/16/14	12.85	6.80	6.05
MW-302	04/22/14	12.85	6.09	6.76
MW-302	06/10/14	12.85	6.40	6.45
MW-302	07/24/14	12.85	6.85	6.00
MW-302	09/23/14	12.85	7.13	5.72
MW-302	11/04/14	12.85	6.28	6.57
MW-302	03/10/15	12.85	6.22	6.63
MW-302	05/15/15	12.85	6.60	6.25
MW-302	07/29/15	12.85	7.07	5.78
MW-302	12/10/15	12.85	5.12	7.73
MW-302	02/23/16	12.85	5.23	7.62
MW-302	05/03/16	12.85	6.15	6.70
MW-302	08/30/16	12.85	7.26	5.59

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-302	12/14/16	12.85	5.74	7.11
MW-302	03/13/17	12.85	5.33	7.52
MW-302	05/16/17	12.85	5.79	7.06
MW-302	06/13/17	12.85	6.30	6.55
MW-302	08/22/17	12.85	6.92	5.93
MW-302	12/04/17	12.85	5.80	7.05
MW-302	03/06/18	12.85	5.91	6.94
MW-302	06/12/18	12.85	6.48	6.37
MW-302	09/05/18	12.85	6.96	5.89
MW-302	12/17/18	12.85	6.10	6.75
MW-302	03/18/19	12.85	5.65	7.20
MW-302	05/16/19	12.85	6.20	6.65
MW-302	09/17/19	12.85	7.33	5.52
MW-302	12/09/19	12.85	6.75	6.10
MW-302	04/27/20	12.85	5.95	6.90
MW-302	06/29/20	12.85	6.22	6.63
MW-302	09/21/20	12.85	6.92	5.93
MW-302	12/15/20	12.85	6.15	6.70
MW-302	04/13/21	12.85	5.67	7.18
MW-303	03/02/12	12.64	5.96	6.68
MW-303	05/30/12	12.64	5.97	6.67
MW-303	06/13/12	12.64	6.06	6.58
MW-303	09/26/12	12.64	6.86	5.78
MW-303	11/27/12	12.64	5.22	7.42
MW-303	02/21/13	12.64	5.58	7.06
MW-303	05/16/13	12.64	6.10	6.54
MW-303	09/06/13	12.64	6.80	5.84
MW-303	11/07/13	12.64	6.61	6.03
MW-303	04/22/14	12.64	5.49	7.15
MW-303	07/24/14	12.64	6.44	6.20
MW-303	09/23/14	12.64	6.80	5.84
MW-303	11/04/14	12.64	5.73	6.91
MW-303	03/10/15	12.64	5.62	7.02
MW-303	05/15/15	12.64	6.11	6.53
MW-303	07/29/15	12.64	6.71	5.93
MW-303	12/10/15	12.64	4.38	8.26
MW-303	02/23/16	12.64	4.44	8.20
MW-303	05/03/16	12.64	5.56	7.08
MW-303	08/30/16	12.64	6.82	5.82

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-303	12/14/16	12.64	5.06	7.58
MW-303	03/13/17	12.64	4.51	8.13
MW-303	05/16/17	12.64	5.18	7.46
MW-303	06/13/17	12.64	5.75	6.89
MW-303	08/22/17	12.64	6.55	6.09
MW-303	12/04/17	12.64	5.35	7.29
MW-303	03/06/18	12.64	5.35	7.29
MW-303	06/12/18	12.64	6.07	6.57
MW-303	09/05/18	12.64	6.73	5.91
MW-303	12/17/18	12.64	5.83	6.81
MW-303	03/18/19	12.64	5.33	7.31
MW-303	05/16/19	12.64	5.89	6.75
MW-303	09/17/19	12.64	6.68	5.96
MW-303	12/09/19	12.64	6.54	6.10
MW-303	04/27/20	12.64	5.63	7.01
MW-303	06/29/20	12.64	6.10	6.54
MW-303	09/21/20	12.64	6.72	5.92
MW-303	12/14/20	12.64	5.95	6.69
MW-303	04/12/21	12.64	5.33	7.31
MW-304	03/01/12	12.70	6.07	6.63
MW-304	05/30/12	12.70	6.12	6.58
MW-304	06/13/12	12.70	6.22	6.48
MW-304	09/26/12	12.70	6.98	5.72
MW-304	11/27/12	12.70	5.43	7.27
MW-304	02/22/13	12.70	5.78	6.92
MW-304	05/16/13	12.70	Not Measured	Not Measured
MW-304	09/06/13	12.70	6.89	5.81
MW-304	11/07/13	12.70	6.75	5.95
MW-304	01/16/14	12.70	6.50	6.20
MW-304	04/22/14	12.70	5.67	7.03
MW-304	07/24/14	12.70	6.57	6.13
MW-304	09/23/14	12.70	6.89	5.81
MW-304	11/04/14	12.70	5.91	6.79
MW-304	03/10/15	12.70	5.80	6.90
MW-304	05/15/15	12.70	6.28	6.42
MW-304	07/29/15	12.70	6.84	5.86
MW-304	12/10/15	12.70	4.80	7.90
MW-304	02/23/16	12.70	Not Measured	Not Measured
MW-304	05/03/16	12.70	5.79	6.91

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-304	08/30/16	12.70	Not Measured	Not Measured
MW-304	12/14/16	12.70	5.27	7.43
MW-304	03/13/17	12.70	4.82	7.88
MW-304	06/13/17	12.70	5.95	6.75
MW-304	08/22/17	12.70	6.67	6.03
MW-304	12/04/17	12.70	5.53	7.17
MW-304	03/06/18	12.70	5.46	7.24
MW-304	06/12/18	12.70	6.18	6.52
MW-304	09/05/18	12.70	6.78	5.92
MW-304	12/17/18	12.70	5.90	6.80
MW-304	03/18/19	12.70	5.39	7.31
MW-304	05/16/19	12.70	5.98	6.72
MW-304	09/17/19	12.70	6.67	6.03
MW-304	12/09/19	12.70	6.58	6.12
MW-304	04/27/20	12.70	5.71	6.99
MW-304	06/29/20	12.70	6.10	6.60
MW-304	09/21/20	12.70	6.78	5.92
MW-304	12/14/20	12.70	6.00	6.70
MW-304	04/12/21	12.70	5.42	7.28
MW-305	03/01/12	13.48	6.47	7.01
MW-305	05/30/12	13.48	6.43	7.05
MW-305	06/11/12	13.48	6.43	7.05
MW-305	09/26/12	13.48	7.22	6.26
MW-305	11/28/12	13.48	5.86	7.62
MW-305	05/16/13	13.48	6.01	7.47
MW-305	11/07/13	13.48	6.40	7.08
MW-305	04/22/14	13.48	5.92	7.56
MW-305	11/06/14	13.48	6.22	7.26
MW-305	05/21/15	13.48	6.32	7.16
MW-306	03/01/12	13.36	6.24	7.12
MW-306	05/30/12	13.36	6.14	7.22
MW-306	06/11/12	13.36	6.12	7.24
MW-306	09/26/12	13.36	6.99	6.37
MW-306	11/28/12	13.36	5.64	7.72
MW-306	05/16/13	13.36	5.57	7.79
MW-306	11/07/13	13.36	6.04	7.32
MW-306	04/22/14	13.36	5.63	7.73
MW-306	05/21/15	13.36	5.99	7.37

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-306	12/10/15	13.36	4.80	8.56
MW-307	11/27/12	15.62	7.94	7.68
MW-307	02/22/13	15.62	8.42	7.20
MW-307	05/16/13	15.62	8.91	6.71
MW-307	09/06/13	15.62	9.67	5.95
MW-307	11/07/13	15.62	9.49	6.13
MW-307	04/22/14	15.62	8.52	7.10
MW-307	03/10/15	15.62	8.42	7.20
MW-307	05/15/15	15.62	8.92	6.70
MW-307	07/29/15	15.62	9.58	6.04
MW-307	12/10/15	15.62	7.33	8.29
MW-307	02/23/16	15.62	7.24	8.38
MW-307	05/03/16	15.62	8.39	7.23
MW-307	08/30/16	15.62	9.51	6.11
MW-307	12/14/16	15.62	7.84	7.78
MW-307	03/13/17	15.62	7.32	8.30
MW-307	05/16/17	15.62	8.02	7.60
MW-307	06/13/17	15.62	8.51	7.11
MW-307	08/22/17	15.62	9.42	6.20
MW-307	09/25/17	15.62	9.76	5.86
MW-307	12/04/17	15.62	8.18	7.44
MW-307	03/06/18	15.62	8.16	7.46
MW-307	06/12/18	15.62	8.70	6.92
MW-307	09/05/18	15.62	9.61	6.01
MW-307	12/17/18	15.62	8.62	7.00
MW-307	03/18/19	15.62	8.07	7.55
MW-307	05/15/19	15.62	8.69	6.93
MW-307	09/17/19	15.62	9.52	6.10
MW-307	12/09/19	15.62	9.39	6.23
MW-307	04/27/20	15.62	8.42	7.20
MW-307	06/29/20	15.62	8.83	6.79
MW-307	09/21/20	15.62	9.57	6.05
MW-307	12/14/20	15.62	8.72	6.90
MW-307	04/12/21	15.62	8.10	7.52
MW-308	11/27/12	15.59	7.90	7.69
MW-308	02/22/13	15.59	8.22	7.37
MW-308	05/16/13	15.59	8.80	6.79
MW-308	09/06/13	15.59	9.56	6.03

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-308	11/07/13	15.59	9.45	6.14
MW-308	04/22/14	15.59	8.10	7.49
MW-308	11/04/14	15.59	8.40	7.19
MW-308	03/10/15	15.59	8.31	7.28
MW-308	05/15/15	15.59	9.01	6.58
MW-308	07/29/15	15.59	9.62	5.97
MW-308	12/10/15	15.59	6.15	9.44
MW-308	02/23/16	15.59	6.88	8.71
MW-308	05/03/16	15.59	8.20	7.39
MW-308	08/30/16	15.59	9.59	6.00
MW-308	12/14/16	15.59	7.56	8.03
MW-308	03/13/17	15.59	6.72	8.87
MW-308	05/16/17	15.59	7.69	7.90
MW-308	06/13/17	15.59	8.38	7.21
MW-308	08/22/17	15.59	9.29	6.30
MW-308	09/25/17	15.59	9.74	5.85
MW-308	12/04/17	15.59	7.90	7.69
MW-308	03/06/18	15.59	7.98	7.61
MW-308	06/12/18	15.59	8.78	6.81
MW-308	09/05/18	15.59	9.55	6.04
MW-308	12/17/18	15.59	8.38	7.21
MW-308	03/18/19	15.59	8.02	7.57
MW-308	05/15/19	15.59	8.65	6.94
MW-308	09/17/19	15.59	9.49	6.10
MW-308	12/09/19	15.59	9.34	6.25
MW-308	04/27/20	15.59	8.32	7.27
MW-308	06/29/20	15.59	8.78	6.81
MW-308	09/21/20	15.59	9.53	6.06
MW-308	12/14/20	15.59	8.70	6.89
MW-308	04/12/21	15.59	8.00	7.59
MW-309	11/27/12	12.67	5.41	7.26
MW-309	02/21/13	12.67	5.73	6.94
MW-309	05/16/13	12.67	6.21	6.46
MW-309	09/06/13	12.67	6.84	5.83
MW-309	11/07/13	12.67	6.76	5.91
MW-309	04/22/14	12.67	5.60	7.07
MW-309	07/24/14	12.67	6.47	6.20
MW-309	09/23/14	12.67	6.81	5.86
MW-309	11/04/14	12.67	5.81	6.86

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-309	03/10/15	12.67	5.72	6.95
MW-309	05/15/15	12.67	6.18	6.49
MW-309	07/29/15	12.67	6.74	5.93
MW-309	12/10/15	12.67	4.59	8.08
MW-309	02/23/16	12.67	4.70	7.97
MW-309	05/03/16	12.67	5.60	7.07
MW-309	08/30/16	12.67	6.75	5.92
MW-309	12/12/16	12.67	5.12	7.55
MW-309	03/13/17	12.67	4.62	8.05
MW-309	06/13/17	12.67	5.76	6.91
MW-309	08/22/17	12.67	6.56	6.11
MW-309	12/04/17	12.67	5.52	7.15
MW-309	03/06/18	12.67	5.40	7.27
MW-309	06/12/18	12.67	6.18	6.49
MW-309	09/05/18	12.67	6.72	5.95
MW-309	12/17/18	12.67	5.93	6.74
MW-309	03/18/19	12.67	5.41	7.26
MW-309	05/16/19	12.67	5.95	6.72
MW-309	09/17/19	12.67	6.74	5.93
MW-309	12/09/19	12.67	6.59	6.08
MW-309	04/27/20	12.67	5.74	6.93
MW-309	06/29/20	12.67	6.00	6.67
MW-309	09/21/20	12.67	6.75	5.92
MW-309	12/14/20	12.67	6.08	6.59
MW-309	04/12/21	12.67	5.42	7.25
MW-310	11/27/12	13.51	6.42	7.09
MW-310	02/21/13	13.51	6.78	6.73
MW-310	05/16/13	13.51	7.20	6.31
MW-310	09/06/13	13.51	7.72	5.79
MW-310	11/07/13	13.51	7.61	5.90
MW-310	01/16/14	13.51	7.39	6.12
MW-310	04/23/14	13.51	6.64	6.87
MW-310	07/24/14	13.51	7.43	6.08
MW-310	09/23/14	13.51	7.73	5.78
MW-310	11/04/14	13.51	6.84	6.67
MW-310	03/10/15	13.51	6.78	6.73
MW-310	05/15/15	13.51	7.19	6.32
MW-310	07/29/15	13.51	7.67	5.84
MW-310	12/10/15	13.51	5.80	7.71

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-310	02/23/16	13.51	5.77	7.74
MW-310	05/03/16	13.51	6.70	6.81
MW-310	08/30/16	13.51	7.76	5.75
MW-310	12/14/16	13.51	6.32	7.19
MW-310	03/13/17	13.51	5.90	7.61
MW-310	05/16/17	13.51	6.39	7.12
MW-310	06/13/17	13.51	6.88	6.63
MW-310	08/22/17	13.51	7.56	5.95
MW-310	12/04/17	13.51	6.48	7.03
MW-310	03/06/18	13.51	6.52	6.99
MW-310	06/12/18	13.51	7.08	6.43
MW-310	09/05/18	13.51	7.57	5.94
MW-310	12/17/18	13.51	6.73	6.78
MW-310	03/18/19	13.51	5.28	8.23
MW-310	05/16/19	13.51	6.92	6.59
MW-310	09/17/19	13.51	7.59	5.92
MW-310	12/09/19	13.51	7.41	6.10
MW-310	04/27/20	13.51	6.60	6.91
MW-310	06/29/20	13.51	6.78	6.73
MW-310	09/21/20	13.51	7.57	5.94
MW-310	12/14/20	13.51	8.95	4.56
MW-310	04/12/21	13.51	6.41	7.10
MW-311	11/05/14	14.91	8.03	6.88
MW-311	03/10/15	14.91	8.02	6.89
MW-311	05/15/15	14.91	8.42	6.49
MW-311	07/29/15	14.91	8.83	6.08
MW-311	12/10/15	14.91	7.08	7.83
MW-311	02/23/16	14.91	6.97	7.94
MW-311	05/03/16	14.91	7.92	6.99
MW-311	08/30/16	14.91	8.92	5.99
MW-311	12/14/16	14.91	7.53	7.38
MW-311	03/13/17	14.91	7.10	7.81
MW-311	06/13/17	14.91	8.05	6.86
MW-311	08/22/17	14.91	8.70	6.21
MW-311	12/04/17	14.91	7.70	7.21
MW-311	03/06/18	14.91	7.74	7.17
MW-311	06/12/18	14.91	8.32	6.59
MW-311	09/05/18	14.91	8.78	6.13
MW-311	12/17/18	14.91	8.02	6.89

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-311	03/18/19	14.91	7.63	7.28
MW-311	05/15/19	14.91	8.06	6.85
MW-311	09/17/19	14.91	8.78	6.13
MW-311	12/09/19	14.91	8.64	6.27
MW-311	04/27/20	14.91	7.94	6.97
MW-311	06/29/20	14.91	8.24	6.67
MW-311	09/21/20	14.91	8.80	6.11
MW-311	12/14/20	14.91	8.20	6.71
MW-311	04/12/21	14.91	7.68	7.23
MW-312	11/05/14	14.31	7.58	6.73
MW-312	03/10/15	14.31	7.56	6.75
MW-312	05/15/15	14.31	7.95	6.36
MW-312	07/29/15	14.31	8.34	5.97
MW-312	12/10/15	14.31	6.97	7.34
MW-312	02/23/16	14.31	6.68	7.63
MW-312	05/03/16	14.31	7.49	6.82
MW-312	08/30/16	14.31	8.44	5.87
MW-312	12/14/16	14.31	7.10	7.21
MW-312	03/13/17	14.31	6.75	7.56
MW-312	06/13/17	14.31	7.61	6.70
MW-312	08/22/17	14.31	8.22	6.09
MW-312	12/04/17	14.31	7.36	6.95
MW-312	03/06/18	14.31	7.32	6.99
MW-312	06/12/18	14.31	7.83	6.48
MW-312	09/05/18	14.31	8.31	6.00
MW-312	12/17/18	14.31	7.57	6.74
MW-312	03/18/19	14.31	7.23	7.08
MW-312	05/15/19	14.31	7.59	6.72
MW-312	09/17/19	14.31	8.26	6.05
MW-312	12/09/19	14.31	8.12	6.19
MW-312	04/27/20	14.31	7.52	6.79
MW-312	06/29/20	14.31	7.70	6.61
MW-312	09/21/20	14.31	8.30	6.01
MW-312	12/14/20	14.31	7.77	6.54
MW-312	04/12/21	14.31	7.31	7.00
MW-313	08/30/16	13.25	7.05	6.20
MW-313	12/14/16	13.25	5.63	7.62
MW-313	03/13/17	13.25	5.31	7.94

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-313	06/13/17	13.25	6.10	7.15
MW-313	08/22/17	13.25	6.80	6.45
MW-313	12/04/17	13.25	5.77	7.48
MW-313	03/06/18	13.25	5.87	7.38
MW-313	06/12/18	13.25	6.38	6.87
MW-313	09/05/18	13.25	6.98	6.27
MW-313	12/17/18	13.25	6.04	7.21
MW-313	03/18/19	13.25	5.87	7.38
MW-313	05/15/19	13.25	6.21	7.04
MW-313	09/17/19	13.25	6.82	6.43
MW-313	12/09/19	13.25	6.74	6.51
MW-313	04/27/20	13.25	6.03	7.22
MW-313	06/29/20	13.25	6.36	6.89
MW-313	09/21/20	13.25	6.95	6.30
MW-313	12/14/20	13.25	6.27	6.98
MW-313	04/12/21	13.25	5.96	7.29
MW-314	08/30/16	13.49	7.72	5.77
MW-314	12/14/16	13.49	6.77	6.72
MW-314	03/13/17	13.49	6.55	6.94
MW-314	06/13/17	13.49	7.08	6.41
MW-314	08/22/17	13.49	7.55	5.94
MW-314	12/04/17	13.49	7.00	6.49
MW-314	03/06/18	13.49	6.99	6.50
MW-314	06/12/18	13.49	7.38	6.11
MW-314	09/05/18	13.49	7.66	5.83
MW-314	12/17/18	13.49	6.98	6.51
MW-314	03/18/19	13.49	6.92	6.57
MW-314	05/16/19	13.49	7.13	6.36
MW-314	09/17/19	13.49	Not Measured	Not Measured
MW-314	12/09/19	13.49	7.46	6.03
MW-314	04/27/20	13.49	7.19	6.30
MW-314	06/29/20	13.49	7.40	6.09
MW-314	09/22/20	13.49	7.53	5.96
MW-314	12/15/20	13.49	7.31	6.18
MW-314	04/13/21	13.49	7.13	6.36
MW-315	08/30/16	14.61	8.56	6.05
MW-315	12/14/16	14.61	7.26	7.35
MW-315	03/13/17	14.61	6.93	7.68

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
MW-315	06/13/17	14.61	7.72	6.89
MW-315	08/22/17	14.61	8.32	6.29
MW-315	12/04/17	14.61	7.45	7.16
MW-315	03/06/18	14.61	7.47	7.14
MW-315	06/12/18	14.61	7.98	6.63
MW-315	09/05/18	14.61	8.46	6.15
MW-315	12/17/18	14.61	7.64	6.97
MW-315	03/18/19	14.61	7.43	7.18
MW-315	05/15/19	14.61	7.73	6.88
MW-315	09/17/19	14.61	9.43	5.18
MW-315	12/09/19	14.61	8.21	6.40
MW-315	04/27/20	14.61	7.64	6.97
MW-315	06/29/20	14.61	7.95	6.66
MW-315	09/21/20	14.61	8.41	6.20
MW-315	12/14/20	14.61	7.77	6.84
MW-315	04/12/21	14.61	7.52	7.09
SH-04	07/08/93	12.92	9.94	2.98
SH-04	08/03/93	12.92	10.15	2.77
SH-04	09/08/93	12.92	10.50	2.42
SH-04	10/08/93	12.92	10.72	2.20
SH-04	11/05/93	12.92	10.88	2.04
SH-04	12/03/93	12.92	10.78	2.14
SH-04	01/05/94	12.92	10.20	2.72
SH-04	02/04/94	12.92	10.12	2.80
SH-04	08/28/95	12.92	10.15	2.77
SH-04	09/27/95	12.92	10.37	2.55
SH-04	04/27/99	12.92	8.55	4.37
SH-04	07/14/99	12.92	7.63	5.29
SH-04	10/18/99	12.92	10.58	2.34
SH-04	01/11/00	12.92	9.06	3.86
SH-04	04/05/00	12.92	8.94	3.98
SH-04	07/18/00	12.92	9.96	2.96
SH-04	10/02/00	12.92	10.62	2.30
SH-04	01/22/01	12.92	10.13	2.79
SH-04	07/23/01	12.92	6.98	5.94
SH-04	10/16/01	12.92	12.20	0.72
SH-04	04/23/02	12.92	9.91	3.01
SH-04	07/18/02	12.92	10.74	2.18
SH-04	10/23/02	12.92	11.27	1.65

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	01/28/03	12.92	9.73	3.19
SH-04	04/15/03	12.92	9.69	3.23
SH-04	07/17/03	12.92	10.78	2.14
SH-04	10/15/03	12.92	11.19	1.73
SH-04	01/13/04	12.92	9.61	3.31
SH-04	04/19/04	16.62	10.05	6.57
SH-04	07/27/04	16.62	10.90	5.72
SH-04	10/18/04	16.62	10.89	5.73
SH-04	01/24/05	16.62	10.03	6.59
SH-04	04/18/05	16.62	10.03	6.59
SH-04	07/12/05	16.62	10.51	6.11
SH-04	10/18/05	16.62	11.01	5.61
SH-04	01/25/06	16.62	8.98	7.64
SH-04	10/11/06	16.62	11.06	5.56
SH-04	11/20/08	16.62	10.40	6.22
SH-04	04/08/09	16.62	10.01	6.61
SH-04	11/16/09	16.62	10.09	6.53
SH-04	04/27/10	16.62	9.33	7.29
SH-04	10/25/10	16.62	10.23	6.39
SH-04	10/27/11	16.62	10.68	5.94
SH-04	03/01/12	16.62	9.63	6.99
SH-04	05/30/12	16.62	9.56	7.06
SH-04	06/11/12	16.62	9.55	7.07
SH-04	08/23/12	16.62	9.95	6.67
SH-04	09/25/12	16.62	10.21	6.41
SH-04	11/25/12	16.62	8.77	7.85
SH-04	05/16/13	16.62	8.64	7.98
SH-04	11/04/13	16.62	8.75	7.87
SH-04	04/22/14	16.62	9.00	7.62
SH-04	11/06/14	16.62	9.23	7.39
SH-04	05/21/15	16.62	9.15	7.47
SH-04	12/08/15	16.62	8.80	7.82
SH-04	12/14/16	16.62	8.34	8.28
SH-04	06/13/17	16.62	8.75	7.87
SH-04	12/04/17	16.62	9.33	7.29
SH-04	06/12/18	16.62	9.39	7.23
SH-04	12/17/18	16.62	9.65	6.97
SH-04	05/16/19	16.62	9.72	6.90
SH-04	12/09/19	16.62	10.50	6.12
SH-04	06/29/20	16.62	9.89	6.73

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
SH-04	12/14/20	16.62	9.90	6.72
SH-04	04/12/21	16.62	9.18	7.44
TES-MW-1	04/06/93	13.10	8.79	4.31
TES-MW-1	05/13/93	13.10	8.61	4.49
TES-MW-1	06/10/93	13.10	8.63	4.47
TES-MW-1	07/08/93	13.10	8.98	4.12
TES-MW-1	08/03/93	13.10	9.28	3.82
TES-MW-1	09/08/93	13.10	8.66	4.44
TES-MW-1	10/08/93	13.10	9.98	3.12
TES-MW-1	11/05/93	13.10	10.20	2.90
TES-MW-1	12/03/93	13.10	10.17	2.93
TES-MW-1	01/05/94	13.10	9.30	3.80
TES-MW-1	02/04/94	13.10	9.19	3.91
TES-MW-1	08/28/95	13.10	9.26	3.84
TES-MW-1	09/27/95	13.10	9.53	3.57
TES-MW-1	04/27/99	13.10	7.49	5.61
TES-MW-1	07/14/99	13.10	8.90	4.20
TES-MW-1	10/18/99	13.10	9.88	3.22
TES-MW-1	01/11/00	13.10	7.59	5.51
TES-MW-1	04/05/00	13.10	8.20	4.90
TES-MW-1	10/02/00	13.10	9.99	3.11
TES-MW-1	01/22/01	13.10	9.65	3.45
TES-MW-1	07/23/01	13.10	10.77	2.33
TES-MW-1	10/16/01	13.10	11.93	1.17
TES-MW-1	04/23/02	13.10	9.32	3.78
TES-MW-1	07/18/02	13.10	10.34	2.76
TES-MW-1	10/23/02	13.10	10.92	2.18
TES-MW-1	01/30/03	13.10	8.43	4.67
TES-MW-1	04/15/03	13.10	8.89	4.21
TES-MW-1	07/17/03	13.10	10.41	2.69
TES-MW-1	10/15/03	13.10	10.82	2.28
TES-MW-1	01/13/04	13.10	8.82	4.28
TES-MW-1	04/19/04	16.15	9.76	6.39
TES-MW-1	07/27/04	16.15	10.48	5.67
TES-MW-1	10/18/04	16.15	10.27	5.88
TES-MW-1	01/24/05	16.15	9.26	6.89
TES-MW-1	04/18/05	16.15	9.46	6.69
TES-MW-1	07/12/05	16.15	10.10	6.05
TES-MW-1	10/18/05	16.15	10.70	5.45

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TES-MW-1	01/25/06	16.15	8.17	7.98
TES-MW-1	04/25/06	16.15	9.33	6.82
TES-MW-1	10/11/06	16.15	10.66	5.49
TES-MW-1	11/18/08	16.15	9.85	6.30
TES-MW-1	11/16/09	16.15	9.35	6.80
TES-MW-1	10/26/10	16.15	9.66	6.49
TES-MW-1	10/27/11	16.15	10.42	5.73
TES-MW-1	05/30/12	16.15	9.37	6.78
TES-MW-1	06/13/12	16.15	9.43	6.72
TES-MW-1	06/26/12	16.15	10.31	5.84
TES-MW-1	11/27/12	16.15	8.62	7.53
TES-MW-1	05/16/13	16.15	9.46	6.69
TES-MW-1	11/07/13	16.15	10.06	6.09
TES-MW-1	04/22/14	16.15	8.70	7.45
TES-MW-1	11/04/14	16.15	9.07	7.08
TES-MW-1	03/10/15	16.15	8.92	7.23
TES-MW-1	05/15/15	16.15	9.40	6.75
TES-MW-1	07/29/15	16.15	10.08	6.07
TES-MW-1	12/10/15	16.15	7.14	9.01
TES-MW-1	02/23/16	16.15	7.58	8.57
TES-MW-1	05/03/16	16.15	8.80	7.35
TES-MW-1	08/30/16	16.15	9.86	6.29
TES-MW-1	12/14/16	16.15	8.30	7.85
TES-MW-1	03/13/17	16.15	7.57	8.58
TES-MW-1	06/13/17	16.15	9.01	7.14
TES-MW-1	08/22/17	16.15	9.90	6.25
TES-MW-1	12/04/17	16.15	8.75	7.40
TES-MW-1	03/06/18	16.15	8.61	7.54
TES-MW-1	06/12/18	16.15	9.56	6.59
TES-MW-1	09/05/18	16.15	10.17	5.98
TES-MW-1	12/17/18	16.15	9.08	7.07
TES-MW-1	03/18/19	16.15	8.73	7.42
TES-MW-1	05/15/19	16.15	9.34	6.81
TES-MW-1	09/17/19	16.15	10.19	5.96
TES-MW-1	12/09/19	16.15	9.99	6.16
TES-MW-1	04/27/20	16.15	9.04	7.11
TES-MW-1	06/29/20	16.15	9.50	6.65
TES-MW-1	09/21/20	16.15	10.23	5.92
TES-MW-1	12/14/20	16.15	9.43	6.72
TES-MW-1	04/12/21	16.15	8.79	7.36

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03	04/06/93	9.58	5.57	4.01
TX-03	06/10/93	9.58	5.50	4.08
TX-03	07/08/93	9.58	5.81	3.77
TX-03	08/03/93	9.58	6.08	3.50
TX-03	09/08/93	9.58	6.42	3.16
TX-03	10/08/93	9.58	6.74	2.84
TX-03	11/05/93	9.58	6.91	2.67
TX-03	12/03/93	9.58	6.90	2.68
TX-03	01/05/94	9.58	6.16	3.42
TX-03	02/04/94	9.58	Not Measured	Not Measured
TX-03	08/28/95	9.58	6.16	3.42
TX-03	09/27/95	9.58	Not Measured	Not Measured
TX-03	04/27/99	9.58	4.68	4.90
TX-03	07/14/99	9.58	5.87	3.71
TX-03	10/18/99	9.58	6.71	2.87
TX-03	01/11/00	9.58	5.30	4.28
TX-03	04/05/00	9.58	5.31	4.27
TX-03	07/18/00	9.58	5.98	3.60
TX-03	10/02/00	9.58	6.65	2.93
TX-03A	04/23/02	9.58	6.25	3.33
TX-03A	07/18/02	9.58	6.75	2.83
TX-03A	10/23/02	9.58	7.15	2.43
TX-03A	01/28/03	9.58	5.40	4.18
TX-03A	04/15/03	9.58	5.76	3.82
TX-03A	07/17/03	9.58	6.76	2.82
TX-03A	10/15/03	9.58	7.05	2.53
TX-03A	01/13/04	9.58	5.46	4.12
TX-03A	04/19/04	12.26	6.22	6.04
TX-03A	07/27/04	12.26	6.78	5.48
TX-03A	10/18/04	12.26	6.69	5.57
TX-03A	01/24/05	12.26	5.76	6.50
TX-03A	04/18/05	12.26	5.91	6.35
TX-03A	07/12/05	12.26	6.41	5.85
TX-03A	10/18/05	12.26	6.92	5.34
TX-03A	01/25/06	12.26	4.82	7.44
TX-03A	04/25/06	12.26	5.82	6.44
TX-03A	10/11/06	12.26	6.91	5.35
TX-03A	11/20/08	12.26	6.14	6.12

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	04/08/09	12.26	5.90	6.36
TX-03A	11/16/09	12.26	5.80	6.46
TX-03A	04/27/10	12.26	5.53	6.73
TX-03A	10/25/10	12.26	6.20	6.06
TX-03A	10/27/11	12.26	6.74	5.52
TX-03A	03/01/12	12.26	5.86	6.40
TX-03A	06/13/12	12.26	5.97	6.29
TX-03A	09/26/12	12.26	6.67	5.59
TX-03A	11/27/12	12.26	5.21	7.05
TX-03A	02/21/13	12.26	5.55	6.71
TX-03A	05/16/13	12.26	6.01	6.25
TX-03A	09/06/13	12.26	6.56	5.70
TX-03A	11/07/13	12.26	6.45	5.81
TX-03A	04/22/14	12.26	5.45	6.81
TX-03A	07/24/14	12.26	6.28	5.98
TX-03A	09/23/14	12.26	6.57	5.69
TX-03A	11/04/14	12.26	5.64	6.62
TX-03A	03/10/15	12.26	5.57	6.69
TX-03A	05/15/15	12.26	5.98	6.28
TX-03A	07/29/15	12.26	6.51	5.75
TX-03A	12/10/15	12.26	4.48	7.78
TX-03A	02/23/16	12.26	4.44	7.82
TX-03A	05/03/16	12.26	5.46	6.80
TX-03A	08/30/16	12.26	6.59	5.67
TX-03A	12/14/16	12.26	5.04	7.22
TX-03A	03/13/17	12.26	4.56	7.70
TX-03A	05/16/17	12.26	5.12	7.14
TX-03A	06/13/17	12.26	5.63	6.63
TX-03A	08/22/17	12.26	6.37	5.89
TX-03A	12/04/17	12.26	5.20	7.06
TX-03A	03/27/18	12.26	5.42	6.84
TX-03A	06/12/18	12.26	6.33	5.93
TX-03A	09/05/18	12.26	6.43	5.83
TX-03A	12/17/18	12.26	5.61	6.65
TX-03A	03/18/19	12.26	5.12	7.14
TX-03A	05/16/19	12.26	5.56	6.70
TX-03A	09/17/19	12.26	6.42	5.84
TX-03A	12/09/19	12.26	6.27	5.99
TX-03A	04/27/20	12.26	5.45	6.81
TX-03A	06/29/20	12.26	5.65	6.61

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-03A	09/21/20	12.26	6.43	5.83
TX-03A	12/15/20	12.26	5.70	6.56
TX-03A	04/12/21	12.26	5.12	7.14
TX-04	04/06/93	14.36	9.97	4.39
TX-04	05/13/93	14.36	9.83	4.53
TX-04	06/10/93	14.36	9.87	4.49
TX-04	07/08/93	14.36	10.24	4.12
TX-04	08/03/93	14.36	10.54	3.82
TX-04	09/08/93	14.36	10.96	3.40
TX-04	10/08/93	14.36	11.28	3.08
TX-04	11/05/93	14.36	11.51	2.85
TX-04	12/03/93	14.36	11.43	2.93
TX-04	01/05/94	14.36	10.60	3.76
TX-04	02/04/94	14.36	10.45	3.91
TX-04	08/28/95	14.36	10.64	3.72
TX-04	09/27/95	14.36	10.88	3.48
TX-04	04/27/99	14.36	8.57	5.79
TX-04	07/14/99	14.36	10.01	4.35
TX-04	10/18/99	14.36	11.12	3.24
TX-04	01/11/00	14.36	9.06	5.30
TX-04	04/05/00	14.36	9.04	5.32
TX-04	07/18/00	14.36	10.41	3.95
TX-04	10/02/00	14.36	11.23	3.13
TX-04	01/22/01	14.36	10.70	3.66
TX-04	07/23/01	14.36	11.50	2.86
TX-04	10/16/01	14.36	9.57	4.79
TX-04	04/23/02	14.36	6.81	7.55
TX-04	07/18/02	14.36	11.33	3.03
TX-04	10/23/02	14.36	11.79	2.57
TX-04	01/28/03	14.36	9.51	4.85
TX-04	04/15/03	14.36	9.55	4.81
TX-04	07/17/03	14.36	11.28	3.08
TX-04	10/15/03	14.36	11.93	2.43
TX-04	01/13/04	14.36	9.54	4.82
TX-04	04/19/04	17.65	10.50	7.15
TX-04	07/27/04	17.65	11.46	6.19
TX-04	10/18/04	17.65	11.46	6.19
TX-04	01/24/05	17.65	10.16	7.49
TX-04	04/18/05	17.65	10.35	7.30

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-04	07/12/05	17.65	11.04	6.61
TX-04	10/18/05	17.65	11.79	5.86
TX-04	01/25/06	17.65	8.43	9.22
TX-04	04/25/06	17.65	10.22	7.43
TX-04	10/11/06	17.65	11.77	5.88
TX-04	11/18/08	17.65	10.84	6.81
TX-04	11/16/09	17.65	10.39	7.26
TX-04	10/25/10	17.65	10.77	6.88
TX-04	10/26/11	17.65	11.47	6.18
TX-04	11/26/12	17.65	9.26	8.39
TX-04	11/04/13	17.65	10.98	6.67
TX-04	11/06/14	17.65	10.05	7.60
TX-04	02/27/15	17.65	9.37	8.28
TX-04	12/08/15	17.65	9.27	8.38
TX-04	12/14/16	17.65	8.97	8.68
TX-04	12/04/17	17.65	9.64	8.01
TX-04	12/17/18	17.65	10.39	7.26
TX-04	12/09/19	17.65	11.22	6.43
TX-04	12/14/20	17.65	10.45	7.20
TX-04	04/12/21	17.65	9.63	8.02
TX-06	04/06/93	8.58	3.85	4.73
TX-06	06/10/93	8.58	3.71	4.87
TX-06	09/08/93	8.58	4.96	3.62
TX-06	10/08/93	8.58	5.35	3.23
TX-06	11/05/93	8.58	5.54	3.04
TX-06	12/03/93	8.58	5.37	3.21
TX-06	01/05/94	8.58	4.48	4.10
TX-06	02/04/94	8.58	4.43	4.15
TX-06	08/28/95	8.58	4.75	3.83
TX-06	09/27/95	8.58	5.78	2.80
TX-06	04/27/99	8.58	2.62	5.96
TX-06	07/14/99	8.58	4.05	4.53
TX-06	10/18/99	8.58	5.19	3.39
TX-06	01/11/00	8.58	2.98	5.60
TX-06	04/05/00	8.58	3.16	5.42
TX-06	07/18/00	8.58	4.25	4.33
TX-06	10/02/00	8.58	5.23	3.35
TX-06	04/25/06	8.58	3.88	4.70

**Table 3**  
**Groundwater Elevation Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	TOC Elevation ft AMSL	Depth to Water ft below TOC	GW Elevation ft AMSL
TX-06A	04/23/02	8.58	3.98	4.60
TX-06A	07/18/02	8.58	4.14	4.44
TX-06A	10/23/02	8.58	5.98	2.60
TX-06A	01/28/03	8.58	3.40	5.18
TX-06A	04/15/03	8.58	3.57	5.01
TX-06A	07/17/03	8.58	5.24	3.34
TX-06A	10/15/03	8.58	6.01	2.57
TX-06A	01/13/04	8.58	3.36	5.22
TX-06A	04/19/04	11.67	4.41	7.26
TX-06A	07/27/04	11.67	5.39	6.28
TX-06A	10/18/04	11.67	5.23	6.44
TX-06A	01/24/05	11.67	3.66	8.01
TX-06A	04/18/05	11.67	3.89	7.78
TX-06A	07/12/05	11.67	4.78	6.89
TX-06A	10/18/05	11.67	5.63	6.04
TX-06A	01/25/06	11.67	3.00	8.67
TX-06A	04/25/06	11.67	5.54	6.13
TX-06A	11/18/08	11.67	4.56	7.11
TX-06A	11/16/09	11.67	3.99	7.68
TX-06A	10/28/10	11.67	4.47	7.20
TX-06A	10/25/11	11.67	5.40	6.27
TX-06A	11/25/12	11.67	3.03	8.64
TX-06A	11/07/13	11.67	4.87	6.80
TX-06A	11/06/14	11.67	4.03	7.64
TX-06A	12/08/15	11.67	2.80	8.87
TX-06A	12/14/16	11.67	3.26	8.41
TX-06A	12/04/17	11.67	3.36	8.31
TX-06A	12/17/18	11.67	4.18	7.49
TX-06A	12/09/19	11.67	5.20	6.47
TX-06A	12/14/20	11.67	4.32	7.35
TX-06A	04/12/21	11.67	3.91	7.76

**Notes:**

= Indicates data collected during this progress report period

-- = Survey data not available

AMSL = above mean sea level

ft = feet

TOC = Top of monitoring well casing

**Table 4**  
**Performance Product Monitoring Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/01/04	10.68	NP	NP	5.01	NP	NP	—	—	—	6.20	6.15	0.05	5.33	NP	NP	5.60	NP	NP
10/02/04	10.12	NP	NP	4.77	NP	NP	—	—	—	7.09	6.31	0.78	5.04	NP	NP	4.89	NP	NP
10/03/04	10.50	NP	NP	5.98	NP	NP	—	—	—	7.26	6.71	0.55	5.86	NP	NP	6.06	NP	NP
04/19/04	10.95	NP	NP	6.29	NP	NP	—	—	—	6.99	NP	NP	4.90	NP	NP	5.13	NP	NP
05/13/04	11.24	NP	NP	6.07	NP	NP	—	—	—	6.95	NP	NP	4.78	NP	NP	4.80	NP	NP
08/06/04	11.35	NP	NP	4.76	NP	NP	—	—	—	5.52	NP	NP	4.64	NP	NP	4.41	NP	NP
06/07/04	11.55	NP	NP	5.06	NP	NP	—	—	—	6.98	NP	NP	4.55	NP	NP	4.61	NP	NP
11/08/04	11.79	NP	NP	6.51	NP	NP	—	—	—	7.22	NP	NP	7.18	NP	NP	7.27	NP	NP
09/09/04	11.79	NP	NP	6.66	NP	NP	—	—	—	7.19	7.18	0.01	7.16	NP	NP	7.14	7.14	Trace
06/10/04	11.76	NP	NP	6.58	NP	NP	—	—	—	7.18	NP	NP	7.11	NP	NP	7.08	NP	NP
09/11/04	11.61	NP	NP	6.17	NP	NP	—	—	—	7.04	7.01	0.03	6.93	NP	NP	6.95	6.95	Trace
10/12/04	—	—	—	3.91	NP	NP	—	—	—	6.96	NP	NP	5.31	NP	NP	5.00	NP	NP
11/01/05	11.04	NP	NP	3.80	NP	NP	—	—	—	5.78	NP	NP	4.85	4.85	Trace	4.71	NP	NP
11/02/05	10.81	10.81	Trace	4.47	NP	NP	—	—	—	6.19	6.18	0.01	5.71	NP	NP	5.68	NP	NP
11/03/05	11.18	NP	NP	5.48	NP	NP	—	—	—	6.73	NP	NP	6.56	6.56	Trace	6.50	NP	NP
04/18/05	10.98	NP	NP	5.97	NP	NP	—	—	—	6.95	6.81	0.14	6.18	NP	NP	6.42	NP	NP
05/25/05	10.98	NP	NP	4.78	NP	NP	—	—	—	6.12	NP	NP	5.73	NP	NP	5.78	NP	NP
09/06/05	11.15	NP	NP	5.74	NP	NP	—	—	—	6.68	6.67	0.01	6.11	NP	NP	6.33	NP	NP
11/07/05	11.40	NP	NP	6.12	NP	NP	—	—	—	7.13	NP	NP	6.32	NP	NP	6.65	NP	NP
08/19/05	11.64	NP	NP	6.25	NP	NP	—	—	—	6.91	NP	NP	6.50	NP	NP	7.85	NP	NP
09/16/05	11.83	NP	NP	6.51	NP	NP	—	—	—	7.32	NP	NP	6.85	NP	NP	7.02	NP	NP
10/18/05	11.98	NP	NP	6.06	NP	NP	—	—	—	6.93	NP	NP	6.51	NP	NP	6.54	NP	NP
09/11/05	11.67	NP	NP	4.43	NP	NP	—	—	—	6.34	NP	NP	4.86	NP	NP	4.10	NP	NP
05/12/05	11.48	NP	NP	4.65	NP	NP	—	—	—	6.57	NP	NP	—	—	—	—	—	—
01/26/06	9.96	NP	NP	4.72	NP	NP	—	—	—	5.83	NP	NP	6.65	NP	NP	3.95	NP	NP
02/28/06	10.24	NP	NP	5.34	NP	NP	—	—	—	6.28	NP	NP	4.53	NP	NP	4.88	NP	NP
03/24/06	10.57	NP	NP	5.34	NP	NP	—	—	—	4.20	NP	NP	5.74	NP	NP	4.94	NP	NP
04/18/06	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/18/06	11.06	NP	NP	6.02	NP	NP	—	—	—	7.01	NP	NP	6.32	NP	NP	5.56	NP	NP
06/19/06	11.26	NP	NP	5.98	NP	NP	—	—	—	6.91	NP	NP	6.23	NP	NP	5.48	NP	NP
08/28/06	11.74	NP	NP	6.45	NP	NP	—	—	—	7.25	NP	NP	6.63	NP	NP	5.68	NP	NP
09/15/06	11.83	NP	NP	6.21	NP	NP	—	—	—	7.02	NP	NP	6.54	NP	NP	5.53	NP	NP
10/11/06	11.96	NP	NP	6.10	NP	NP	—	—	—	6.95	NP	NP	5.93	NP	NP	5.48	NP	NP
11/29/06	—	—	—	4.19	NP	NP	—	—	—	5.83	NP	NP	5.39	NP	NP	4.27	NP	NP
12/13/06	10.53	NP	NP	3.60	NP	NP	—	—	—	5.58	5.58	0.01	4.39	NP	NP	2.81	NP	NP
01/31/07	10.17	NP	NP	3.98	NP	NP	—	—	—	6.32	6.09	0.23	5.58	NP	NP	4.26	NP	NP
02/26/07	10.56	NP	NP	4.55	NP	NP	—	—	—	6.04	NP	NP	5.24	NP	NP	4.12	NP	NP
03/20/07	10.68	NP	NP	4.68	NP	NP	—	—	—	6.42	6.41	0.01	5.68	NP	NP	4.82	NP	NP
04/26/07	10.99	NP	NP	—	NP	NP	—	—	—	—	NP	NP	6.15	NP	NP	4.97	4.96	0.01
05/25/07	11.29	NP	NP	5.68	NP	NP	—	—	—	7.05	NP	NP	6.60	NP	NP	5.11	NP	NP
06/15/07	11.50	NP	NP	5.93	NP	NP	—	—	—	7.04	NP	NP	6.35	NP	NP	5.03	NP	NP
07/19/07	11.70	NP	NP	5.82	5.81	0.01	—	—	—	6.81	6.80	0.01	6.34	NP	NP	5.29	5.28	0.01
08/17/07	11.81	NP	NP	5.90	NP	NP	—	—	—	6.75	NP	NP	6.22	NP	NP	5.35	NP	NP
09/11/07	—	NP	NP	6.24	NP	NP	—	—	—	7.28	7.28	<.01	6.68	6.68	<.01	5.73	NP	NP
10/29/07	11.80	NP	NP	5.60	NP	NP	—	—	—	6.68	NP	NP	5.25	NP	NP	6.03	NP	NP
11/12/07	11.84	NP	NP	5.56	NP	NP	—	—	—	6.58	6.57-6.58	<.01	5.82	NP	NP	4.83	—	—

**Table 4**  
**Performance Product Monitoring Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
12/26/07	10.84	NP	NP	4.09	NP	NP	—	—	—	5.85	5.84	<.01	4.84	4.85	<.01	4.44	4.43	<.01
01/11/08	10.64	NP	NP	3.84	NP	NP	—	—	—	5.26	5.25	0.01	4.13	4.12	<.01	3.64	3.63	<.01
02/13/08	10.65	NP	NP	4.58	NP	NP	—	—	—	6.60	6.25	0.35	5.75	NP	NP	4.84	NP	NP
03/14/08	11.05	NP	NP	5.37	NP	NP	—	—	—	6.31	NP	NP	5.65	NP	NP	5.01	NP	NP
04/18/08	10.78	NP	NP	5.41	NP	NP	—	—	—	6.46	6.45	0.01	5.81	NP	NP	5.28	NP	NP
05/05/08	11.39	NP	NP	5.84	NP	NP	—	—	—	7.06	7.05	0.01	6.39	NP	NP	5.49	NP	NP
05/20/08	11.53	NP	NP	5.84	NP	NP	—	—	—	7.03	7.02	0.01	6.69	NP	NP	5.52	NP	NP
06/30/08	11.67	NP	NP	5.85	NP	NP	—	—	—	dry	NP	NP	6.35	6.34	0.01	5.45	5.44	0.01
07/10/08	11.70	NP	NP	5.70	NP	NP	—	—	—	6.83	6.80	0.03	6.23	NP	NP	5.24	NP	NP
08/13/08	11.75	NP	NP	5.61	NP	NP	—	—	—	6.75	NP	NP	6.25	NP	NP	6.17	NP	NP
09/02/08	11.82	NP	NP	5.86	NP	NP	—	—	—	6.98	NP	NP	6.40	NP	NP	5.71	NP	NP
10/10/08	11.82	NP	NP	7.11	NP	NP	—	—	—	5.83	NP	NP	6.59	NP	NP	5.83	NP	NP
11/10/08	10.02	NP	NP	4.68	NP	NP	—	—	—	6.40	NP	NP	5.61	NP	NP	5.21	NP	NP
12/08/08	11.48	NP	NP	5.53	NP	NP	—	—	—	6.70	6.52	0.18	5.82	NP	Sheen	5.17	NP	Sheen
01/07/09	11.00	NP	NP	3.93	NP	NP	—	—	—	5.32	NP	Sheen	4.51	NP	Sheen	4.41	NP	Sheen
02/17/09	11.60	NP	NP	5.20	NP	NP	—	—	—	6.40	NP	Sheen	5.72	NP	Sheen	5.21	NP	Sheen
03/06/09	11.21	NP	NP	4.67	NP	NP	—	—	—	6.02	5.59	0.43	4.45	NP	Sheen	4.83	NP	Sheen
04/07/09	—	—	—	—	—	—	—	—	—	6.98	6.96	0.02	—	—	—	—	—	—
07/09/09	11.55	NP	NP	—	—	—	—	—	—	6.90	NP	Sheen	6.34	NP	Sheen	5.56	NP	Sheen
10/20/09	11.75	NP	NP	4.90	NP	NP	—	—	—	6.28	NP	Sheen	5.63	NP	Sheen	4.91	NP	Sheen
01/05/10	10.98	NP	NP	3.60	NP	NP	—	—	—	5.78	NP	Sheen	3.55	NP	NP	3.30	NP	NP
04/26/10	10.7	NP	NP	5.04	NP	NP	—	—	—	6.29	6.28	0.01	5.76	NP	NP	5.05	NP	NP
07/22/10	11.44	NP	NP	5.83	NP	NP	—	—	—	10.02	NP	Sheen	6.74	NP	NP	5.37	NP	Sheen
10/20/10	11.68	NP	NP	5.90	NP	NP	—	—	—	6.78	NP	Sheen	6.20	NP	Sheen	5.45	NP	Sheen
12/12/10	10.79	NP	NP	4.45	NP	NP	—	—	—	5.97	NP	<.01	5.27	NP	NP	4.62	NP	Sheen
04/08/11	9.97	NP	NP	4.62	NP	NP	—	—	—	5.72	5.71	0.01	5.22	NP	NP	4.82	NP	NP
07/28/11	11.08	NP	NP	5.71	NP	NP	—	—	—	6.90	6.89	0.01	6.22	NP	NP	5.38	NP	NP
09/21/11	11.75	NP	NP	6.19	NP	NP	—	—	—	7.06	7.05	0.01	6.55	NP	NP	5.78	NP	Sheen
03/26/12	—	—	—	4.68	NP	NP	—	—	—	6.09	5.76	0.33	5.08	NP	NP	4.19	NP	Sheen
06/12/12	11.20	NP	NP	5.24	NP	NP	—	—	—	7.25	6.38	0.87	5.86	NP	NP	4.69	NP	Sheen
09/27/12	—	—	—	8.39	NP	NP	—	—	—	7.29	6.98	0.31	6.73	NP	NP	5.47	NP	Sheen
11/27/12	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12/20/12	—	—	—	2.15	NP	NP	—	—	—	5.40	4.72	0.68	1.97	NP	NP	0.00	NP	NP
02/22/13	10.81	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
03/29/13	—	—	—	—	—	—	—	—	—	6.53	6.44	0.09	5.97	NP	Sheen	4.90	NP	Sheen
05/16/13	11.30	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
06/28/13	—	—	—	4.98	NP	NP	—	—	—	6.35	6.33	0.02	5.68	NP	NP	4.42	NP	Sheen
09/06/13	11.77	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
09/11/13	—	—	—	5.67	NP	Sheen	—	—	—	6.63	NP	NP	—	—	—	5.32	4.82	0.50
09/12/13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.52	5.03	0.49
10/30/13	—	—	—	5.97	NP	NP	—	—	—	7.08	6.96	0.12	6.43	NP	NP	5.29	5.28	0.01
11/07/13	11.73	NP	NP	5.51	NP	NP	—	—	—	6.44	6.41	0.03	5.68	NP	NP	5.54	5.51	0.03
01/16/14	—	—	—	5.46	NP	NP	5.46	5.51	0.05	6.48	6.36	0.12	5.51	NP	NP	5.47	5.43	0.04
02/27/14	—	—	—	4.72	NP	NP	6.04	NP	Sheen	6.79	6.12	0.67	5.01	NP	NP	6.12	NP	Sheen
03/25/14	—	—	—	4.91	NP	NP	5.90	NP	NP	6.96	5.84	1.12	5.38	NP	NP	6.30	NP	NP
04/22/14	10.78	NP	NP	4.98	NP	NP	5.89	NP	NP	6.32	5.98	0.34	5.33	NP	NP	5.85	NP	Sheen

**Table 4**  
**Performance Product Monitoring Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
06/10/14	—	—	—	5.62	NP	Sheen	8.31	NP	NP	7.08	6.85	0.23	6.02	NP	NP	—	NP	NP
07/24/14	—	—	—	5.50	NP	NP	6.91	NP	NP	6.64	6.56	0.08	6.85	NP	NP	6.06	NP	Sheen
08/28/14	—	—	—	5.73	NP	NP	6.79	NP	NP	6.72	6.65	0.07	6.06	NP	NP	6.23	NP	NP
09/23/14	—	—	—	5.76	NP	NP	5.73	NP	NP	6.65	6.55	0.10	5.96	NP	NP	6.08	NP	NP
10/22/14	—	—	—	4.82	NP	NP	4.91	NP	NP	5.87	NP	NP	4.96	NP	NP	4.13	NP	Sheen
11/05/14	11.04	NP	NP	4.50	NP	NP	6.60	NP	NP	6.45	5.90	0.55	4.70	NP	NP	5.12	NP	NP
12/18/14	—	—	—	4.28	NP	NP	5.77	NP	NP	5.49	5.26	0.23	4.50	NP	NP	4.89	NP	NP
01/27/15	—	—	—	4.52	NP	NP	4.88	NP	NP	6.15	5.60	0.55	4.82	NP	NP	5.38	NP	NP
02/26/15	—	—	—	4.92	NP	NP	5.54	NP	NP	6.69	5.88	0.81	5.38	NP	NP	5.59	NP	NP
03/11/15	10.75	NP	NP	5.29	NP	NP	5.55	NP	NP	6.56	6.15	0.41	5.52	NP	NP	5.45	NP	Sheen
04/21/15	—	—	—	5.08	NP	NP	—	—	—	6.44	6.36	0.08	5.50	NP	NP	5.85	NP	NP
05/19/15	11.21	NP	NP	5.31	NP	NP	8.60	NP	NP	6.50	6.49	0.01	5.71	NP	NP	5.67	NP	NP
06/11/15	—	—	—	5.34	NP	NP	—	—	—	6.48	NP	NP	5.70	NP	NP	5.46	NP	NP
07/29/15	11.59	NP	NP	5.81	NP	NP	—	—	—	6.73	NP	NP	6.10	NP	NP	5.85	NP	NP
08/25/15	—	—	—	5.95	NP	NP	—	—	—	6.23	NP	NP	6.17	NP	NP	6.82	NP	NP
09/24/15	—	—	—	5.72	NP	NP	—	—	—	6.60	NP	NP	5.72	NP	NP	6.33	NP	NP
10/15/15	—	—	—	5.35	NP	NP	—	—	—	6.30	NP	NP	5.30	NP	NP	5.82	NP	NP
11/20/15	—	—	—	4.37	NP	NP	—	—	—	6.47	5.67	0.80	4.78	NP	NP	5.51	NP	NP
12/09/15	9.91	NP	NP	2.55	NP	NP	—	—	—	4.45	4.45	Trace	2.80	NP	NP	3.61	NP	NP
02/23/16	—	—	—	4.18	NP	NP	—	—	—	5.82	5.23	0.59	4.45	NP	NP	4.38	NP	Odor
04/22/16	—	—	—	4.90	NP	NP	—	—	—	5.96	5.83	0.13	4.67	NP	NP	5.37	NP	NP
05/03/16	—	—	—	5.27	NP	NP	—	—	—	6.42	6.19	0.23	5.63	NP	NP	6.00	NP	NP
06/02/16	—	—	—	5.34	NP	NP	—	—	—	6.44	6.44	Odor	5.77	NP	NP	6.18	NP	NP
07/14/16	—	—	—	5.58	NP	NP	—	—	—	6.67	NP	NP	6.02	NP	NP	6.27	NP	NP
08/18/16	—	—	—	5.80	NP	NP	—	—	—	6.78	6.78	Odor	6.16	NP	NP	6.44	NP	NP
09/08/16	—	—	—	5.88	NP	NP	—	—	—	6.78	6.78	Odor	6.22	NP	NP	6.55	NP	NP
10/21/16	—	—	—	5.40	NP	NP	—	—	—	6.32	Trace	Trace	6.01	NP	NP	6.10	NP	NP
11/17/16	—	—	—	3.67	NP	NP	—	—	—	5.43	4.49	0.94	3.86	NP	NP	4.68	NP	NP
12/01/16	—	—	—	3.93	NP	NP	—	—	—	6.00	4.94	1.06	4.14	NP	NP	4.88	NP	NP
12/14/16	10.34	NP	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
01/11/17	—	—	—	2.83	NP	NP	—	—	—	5.38	5.34	0.04	3.18	NP	NP	3.88	NP	Sheen
02/14/17	—	—	—	3.81	NP	NP	—	—	—	5.69	4.75	0.94	4.02	NP	NP	4.79	NP	NP
03/13/17	9.83	NP	NP	4.04	NP	NP	—	—	—	5.98	5.17	0.81	4.27	NP	NP	4.98	NP	NP
04/13/17	—	—	—	3.78	NP	NP	—	—	—	6.42	5.03	1.39	4.02	NP	NP	5.02	NP	NP
05/08/17	—	—	—	4.78	NP	NP	—	—	—	6.74	5.83	0.91	5.32	NP	NP	5.31	NP	NP
06/13/17	—	—	—	5.00	NP	NP	—	—	—	6.18	5.98	0.20	5.36	NP	NP	5.60	NP	NP
07/18/17	—	—	—	5.32	NP	NP	—	—	—	6.47	6.43	0.04	5.78	NP	NP	5.83	NP	NP
08/22/17	11.34	NP	NP	5.32	NP	NP	—	—	—	6.42	NP	NP	5.76	NP	NP	5.92	NP	NP
09/13/17	—	—	—	5.68	NP	NP	—	—	—	6.60	NP	NP	—	—	—	6.21	NP	NP
10/31/17	—	—	—	5.58	NP	NP	—	—	—	6.64	NP	NP	—	—	—	6.17	NP	NP
11/13/17	—	—	—	4.67	NP	NP	—	—	—	6.08	NP	NP	—	—	—	4.98	NP	NP
12/04/17	10.84	NP	NP	4.15	NP	NP	—	—	—	6.05	5.53	0.52	—	—	—	5.38	NP	NP
01/24/18	—	—	—	3.55	NP	NP	—	—	—	5.34	4.95	0.39	3.78	NP	NP	4.16	NP	NP
02/15/18	—	—	—	4.68	NP	NP	—	—	—	6.65	5.64	1.01	4.40	NP	NP	5.42	NP	NP
03/06/18	10.55	NP	NP	4.57	NP	NP	—	—	—	6.19	5.80	0.39	5.03	NP	NP	5.46	NP	NP
04/12/18	—	—	—	4.72	NP	NP	—	—	—	4.96	4.87	0.09	5.68	NP	NP	5.37	NP	NP

**Table 4**  
**Performance Product Monitoring Data**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Date	MW-204			MW-208			MW-209			MW-210			MW-211			MW-212		
	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness	Groundwater Depth	Product Depth	Product Thickness
05/02/18	—	—	—	4.85	NP	NP	—	—	—	6.22	5.80	0.42	5.17	NP	NP	5.54	NP	NP
06/12/18	11.04	NP	NP	5.25	NP	NP	—	—	—	6.50	6.47	0.03	5.73	NP	NP	6.06	NP	NP
07/12/18	—	—	—	5.24	NP	NP	—	—	—	6.40	6.39	0.01	6.70	NP	NP	5.94	NP	NP
08/23/18	—	—	—	5.57	NP	NP	—	—	—	6.56	6.55	0.01	5.97	NP	NP	6.08	NP	NP
09/05/18	8.20	NP	NP	5.75	NP	NP	—	—	—	6.74	NP	NP	6.16	NP	NP	6.35	NP	NP
10/11/18	—	—	—	5.18	NP	NP	—	—	—	6.32	NP	NP	5.50	NP	NP	5.83	NP	NP
11/07/18	—	—	—	5.01	NP	NP	—	—	—	6.33	NP	NP	5.56	NP	NP	5.66	NP	NP
12/17/18	11.10	NP	NP	4.13	NP	NP	—	—	—	5.31	NP	NP	4.14	NP	NP	4.43	NP	NP
01/16/19	—	—	—	4.48	NP	NP	—	—	—	6.07	5.35	0.72	4.30	NP	NP	5.56	NP	NP
02/20/19	—	—	—	3.98	NP	NP	—	—	—	6.45	5.02	1.43	4.22	NP	NP	4.32	NP	NP
03/18/19	10.51	NP	NP	4.95	4.94	0.01	—	—	—	6.67	5.96	0.71	5.34	NP	NP	6.12	NP	NP
04/10/19	—	—	—	4.66	NP	NP	—	—	—	5.24	NP	NP	4.98	NP	NP	5.78	5.75	0.03
05/15/19	—	—	—	4.19	NP	NP	—	—	—	7.05	6.22	0.83	5.38	NP	NP	6.13	6.10	0.03
06/26/19	—	—	—	5.47	NP	NP	—	—	—	6.58	6.56	0.02	6.88	NP	NP	6.11	NP	NP
07/24/19	—	—	—	5.43	NP	NP	—	—	—	6.59	6.58	0.01	5.88	NP	NP	5.96	NP	NP
08/13/19	—	—	—	5.45	NP	NP	—	—	—	6.58	6.57	0.01	5.72	NP	NP	6.02	NP	NP
09/17/19	11.65	NP	NP	5.23	NP	NP	—	—	—	6.18	6.13	0.05	5.54	NP	NP	6.28	6.25	0.03
10/16/19	—	—	—	5.61	NP	NP	—	—	—	6.47	6.45	0.02	5.77	NP	NP	6.36	NP	NP
11/05/19	—	—	—	5.62	NP	NP	—	—	—	6.78	6.68	0.10	6.01	NP	NP	6.51	NP	NP
12/09/19	11.54	NP	NP	5.08	NP	NP	—	—	—	6.27	NP	NP	5.54	NP	NP	6.14	NP	NP
01/28/20	—	—	—	3.05	NP	NP	—	—	—	4.13	4.06	0.07	3.12	NP	NP	2.03	NP	NP
02/26/20	—	—	—	4.81	NP	NP	—	—	—	6.71	5.78	0.93	5.19	NP	NP	4.97	NP	Sheen
04/27/20	10.94	NP	NP	5.18	NP	NP	—	—	—	6.43	6.23	0.20	5.47	NP	NP	5.29	NP	NP
06/16/20	—	—	—	5.25	NP	NP	—	—	—	5.69	5.56	0.13	5.72	NP	NP	6.25	NP	NP
06/29/20	11.26	NP	NP	5.08	NP	NP	—	—	—	6.58	6.50	0.08	5.78	NP	NP	5.85	NP	NP
07/29/20	—	—	—	5.20	NP	NP	—	—	—	6.43	6.42	0.01	5.67	NP	NP	6.31	NP	NP
08/27/20	—	—	—	5.41	NP	NP	—	—	—	6.71	6.70	0.01	5.85	NP	NP	6.15	NP	NP
09/21/20	11.59	NP	NP	5.09	NP	NP	—	—	—	6.35	NP	NP	5.45	NP	NP	6.23	NP	NP
10/29/20	—	—	—	5.58	NP	NP	—	—	—	6.87	6.50	0.37	5.99	NP	NP	6.23	NP	NP
11/30/20	—	—	—	4.82	NP	NP	—	—	—	6.23	5.78	0.45	5.11	NP	NP	5.10	NP	NP
12/14/20	11.22	NP	NP	4.75	NP	NP	—	—	—	6.05	5.91	0.14	5.28	NP	NP	5.83	NP	NP
01/21/21	—	—	—	4.27	NP	NP	—	—	—	6.96	4.9	2.06	4.82	NP	NP	5.63	NP	NP
02/16/21	—	—	—	3.69	NP	NP	—	—	—	5.83	4.92	0.91	4.18	NP	NP	4.25	NP	NP
03/23/21	—	—	—	4.53	NP	NP	—	—	—	6.57	6.11	0.46	5.37	NP	NP	5.74	NP	NP
04/12/21	—	—	—	5.28	NP	NP	—	—	—	6.42	6.32	0.10	5.65	NP	NP	6.31	NP	NP

**Notes:**

= Indicates data collected during this progress report period

Depth relative to the measuring point at the top of the monitoring well PVC pipe

Product depth/thick = product depth/thickness in well measured in feet

— = not measured

NP = no product detected

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L	
MW-05	05/04/16	14.3	357	3.38	6.26	31.6	9.99	--	--	--	--	--	--	
MW-05	12/14/16	12.22	308	5.94	6.45	47	0	--	--	--	--	--	--	
MW-05	06/14/17	14.8	249	1.7	6.37	25.4	5.13	--	--	--	--	--	--	
MW-05	12/07/17	15.16	263	791.21	6.73	-165.1	8.37	--	--	--	--	--	--	
MW-05	06/12/18	15.66	211	1.47	6.35	-44.7	6.88	--	--	--	--	--	--	
MW-05	12/18/18	15	299	1.73	7.28	-23.6	80	--	--	--	--	--	--	
MW-05	05/15/19	15.3	294	0.85	6.92	18.3	45	--	--	--	--	--	--	
MW-05	12/10/19	14.31	300	4.76	5.91	32.8	16	--	--	--	--	--	--	
MW-05	06/29/20	14.7	289	0.31	6.74	198.90	11	--	--	--	--	--	--	
MW-05	12/14/20	13.95	292	0.71	8.25	148.90	16	--	--	--	--	--	--	
MW-101	12/13/16	8.35	244	1.67	6.81	-75	0	--	--	--	--	--	--	
MW-101	12/06/17	10.99	103	0.32	6.75	-12.3	9	--	--	--	--	--	--	
MW-101	12/19/18	12.5	239	1.38	7.39	-74.6	11	--	--	--	--	--	--	
MW-101	12/09/19	13.13	207	3.59	6.49	-69.6	44	--	--	--	--	--	--	
MW-101	12/16/20	12.73	243	0.25	7.67	118.40	48	--	--	--	--	--	--	
MW-102	12/14/16	9.44	438	1.96	6.77	32	0	--	--	--	--	--	--	
MW-102	12/05/17	11.76	310	1.14	6.43	106.3	9.6	--	--	--	--	--	--	
MW-102	12/18/18	14.2	415	1.51	7.49	-35.9	12	--	--	--	--	--	--	
MW-102	12/10/19	13.55	410	3.43	6.16	59.4	27	--	--	--	--	--	--	
MW-102	12/16/20	13.66	477	0.41	7.72	117.60	30	--	--	--	--	--	--	
MW-104	05/05/16	17.11	420	0.65	6.19	-105.1	4.31	--	--	--	--	--	--	
MW-104	12/14/16	10.9	340	1.76	6.49	-70	0	--	--	--	--	--	--	
MW-104	06/14/17	17.09	323	0.82	7.09	-39.3	2.61	--	--	--	--	--	--	
MW-104	12/07/17	15.6	349	0.61	6.65	-4	0	--	--	--	--	--	--	
MW-104	06/12/18	19.32	180	0.54	6.24	-44	2.52	--	--	--	--	--	--	
MW-104	12/18/18	15.8	331	1.34	7.35	-41.6	10	--	--	--	--	--	--	
MW-104	05/15/19	17.8	258	0.78	6.6	-74.9	6	--	--	--	--	--	--	
MW-104	12/10/19	15.35	345	2.66	5.4	74.8	36	--	--	--	--	--	--	
MW-104	06/29/20	17.6	395	0.24	6.73	198.90	9	--	--	--	--	--	--	
MW-104	12/14/20	16.19	412	0.34	7.75	172.10	13	--	--	--	--	--	--	

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L	
MW-105	12/14/16	14.63	160	0.32	6.14	-58.1	8.67	--	--	--	--	--	--	
MW-105	12/06/17	13.11	136	1.37	6.12	-26.4	0	--	--	--	--	--	--	
MW-105	12/18/18	15.5	93	1.01	7.21	-33.7	49	--	--	--	--	--	--	
MW-105	12/11/19	15.53	166	0.48	7.31	-17.2	25	--	--	--	--	--	--	
MW-105	12/14/20	14.90	289	0.50	7.83	155.60	27	--	--	--	--	--	--	
MW-111	05/04/16	15.2	148	3.67	6.29	4.6	23.2	--	--	--	--	--	--	
MW-111	12/14/16	13.4	295	0.35	6.45	-87.3	6.48	--	--	--	--	--	--	
MW-111	06/14/17	16.6	112	1.12	7.08	1	8.2	--	--	--	--	--	--	
MW-111	12/06/17	15.03	386	10.65	6.42	-51.3	5.13	--	--	--	--	--	--	
MW-111	06/12/18	17.56	118	0.73	6.22	-46.2	4.01	--	--	--	--	--	--	
MW-111	12/18/18	15	417	1.25	7.76	-46.6	20	--	--	--	--	--	--	
MW-111	05/15/19	16.1	147	0.75	7.57	-55.6	14	--	--	--	--	--	--	
MW-111	12/11/19	15.42	280	0.4	7.54	-13.1	6	--	--	--	--	--	--	
MW-111	06/29/20	19	116	0.55	6.75	206.50	9	--	--	--	--	--	--	
MW-111	12/14/20	15.93	242	0.28	7.61	169.80	16	--	--	--	--	--	--	
MW-112A	05/05/16	14.28	448	0.87	6.41	-87	4.41	--	--	--	--	--	--	
MW-112A	12/12/16	13.7	401	0.67	6.51	-87.1	9.78	--	--	--	--	--	--	
MW-112A	06/15/17	15.75	498	0.6	7.26	-62.6	--	--	--	--	--	--	--	
MW-112A	12/07/17	13.97	359	0.82	6.5	-27.9	0	--	--	--	--	--	--	
MW-112A	06/13/18	16.28	517	0.26	6.51	-56.1	0	--	--	--	--	--	--	
MW-112A	12/20/18	14	495	0.12	6.75	-101	128	--	--	--	--	--	--	
MW-112A	05/16/19	10.91	529	0.52	6.27	-104	77	--	--	--	--	--	--	
MW-112A	12/12/19	13.87	620	0.5	8.9	-80.8	12	--	--	--	--	--	--	
MW-112A	06/29/20	15.7	430	0.32	6.76	189.10	16	--	--	--	--	--	--	
MW-112A	12/14/20	14.67	399	0.18	7.77	123.70	5	--	--	--	--	--	--	
MW-201	01/14/04	12	282	1.98	5.59	-95.5	1.5	--	--	--	--	--	--	
MW-201	04/20/04	11.4	101	5.52	5	61.3	7	ND	--	--	5.71	--	--	
MW-201	01/26/05	9	720	9.12	5.48	129	9	--	--	--	--	--	--	
MW-201	04/20/05	11.9	700	6.24	6.66	83	8	0	--	--	7.67	--	--	
MW-201	07/13/05	15.4	99	0.16	5.64	178.1	1.9	--	--	--	--	--	--	
MW-201	10/20/05	14.1	535	0.42	7.21	49.2	3.9	--	--	--	--	--	--	

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-201	01/26/06	8.3	24	7.47	7.02	-72.5	4	--	--	--	--	--	--
MW-201	11/20/08	9.3	172	14.08	6.12	268	38.2	--	--	--	--	--	--
MW-201	04/07/09	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/19/09	10.6	13.2	7.79	5.21	61	6.5	--	--	--	--	--	--
MW-201	10/27/10	12.7	15.2	6.92	4.79	157	0.5	--	--	--	--	--	--
MW-201	10/26/11	11.53	655	2.77	7.59	-76	5.9	--	--	--	--	--	--
MW-201	11/27/12	--	--	--	--	--	--	--	--	--	--	--	--
MW-201	11/06/13	11.78	800	0	6.68	-74	0	--	--	--	--	--	--
MW-201	11/06/14	14.1	121	0	6.08	297	3.3	--	--	--	--	--	--
MW-201	12/13/16	8.12	47	3.58	6.13	142.3	9.27	--	--	--	--	--	--
MW-201	12/06/17	11.3	57	14.37	6.08	37.7	12.2	--	--	--	--	--	--
MW-201	12/19/18	12.6	387	0.65	6.81	-87.4	30	--	--	--	--	--	--
MW-201	12/16/20	11.99	116	0.79	6.75	145.80	120	--	--	--	--	--	--
MW-202	01/14/04	8	52	12.4	5.32	-40.2	9.1	--	--	--	--	--	--
MW-202	04/20/04	12.1	317	1.31	5.27	112	9.8	3	--	--	< 1	--	--
MW-202	01/26/05	11.6	218	1.69	4.8	3	126	--	--	--	--	--	--
MW-202	04/20/05	12.6	44	0	7.78	-60	26	8	--	--	<1	--	--
MW-202	07/13/05	15.7	281	0.11	6.09	-22	6.3	--	--	--	--	--	--
MW-202	10/20/05	15.5	576	0.44	6.42	-47.9	5.5	--	--	--	--	--	--
MW-202	01/26/06	10.78	213	0.18	7.73	-104.7	70	--	--	--	--	--	--
MW-202	11/20/08	14.5	532	3.65	6.4	232	10.2	36.6	--	--	< 1	--	--
MW-202	04/07/09	11.86	0.175	0	6.12	-82	56.1	--	--	--	--	--	--
MW-202	11/19/09	12.4	51.6	1.65	5.81	-53	29.5	19	--	--	82	--	--
MW-202	04/27/10	12.3	34	0.22	5.46	-96	55.4	--	--	--	--	--	--
MW-202	10/27/10	15	29.5	2.35	6.15	-48	24	7.4	--	--	< 1.0	--	--
MW-202	10/26/11	12.9	214	2.45	8.22	-104.2	2.72	8.5	--	--	< 0.50	--	--
MW-202	03/02/12	10.03	334	0	6.3	-39	27.2	--	--	--	--	--	--
MW-202	06/13/12	12.5	284	4.36	7.22	-59	25.7	--	--	--	--	--	--
MW-202	09/26/12	14.2	332	0	6.74	-112	25	--	--	--	--	--	--
MW-202	11/27/12	12.99	383	0	7.33	-70	77.7	--	--	--	15	--	--
MW-202	11/06/13	13.67	263	2.28	5.79	-43.6	4.9	3	--	--	0.76	< 0.200	0.439
MW-202	11/06/14	15.87	373	0	6.47	-49	107	5	< 0.25	< 0.25	7	0.288	0.631
MW-202	12/10/15	12.85	241	0.42	6.42	-21.3	98.6	1.5	< 0.10	< 0.10	11.6	24.2	0.628
MW-202	05/03/16	15.95	232	0.36	6.2	-45.6	16.9	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L		
MW-202	12/13/16	10.66	223	0.39	6.33	-102.4	9.52	0.5	< 0.0400	< 0.0400	1.24 J	45.3	0.401		
MW-202	06/14/17	14.76	222	0.33	7.08	-145.6	9	--	--	--	--	--	--		
MW-202	12/06/17	11.62	153	0.71	6	-49	4.5	2.75	< 0.0400	< 0.0400	28.6	11.2	0.45		
MW-202	06/14/18	14.22	159	0.69	6.04	-2.9	9.87	--	--	--	--	--	--		
MW-202	12/19/18	12.6	287	0.28	6.84	-87.4	22	14	< 0.0400	< 0.0400	58.4	17.9	0.649		
MW-202	05/16/19	12.6	266	0.48	6.53	-91.9	71	--	--	--	--	--	--		
MW-202	12/10/19	12.88	278	4.97	6.12	-10.2	50	3.5	<0.0600	<0.0600	8.61	28.3	0.543		
MW-202	06/29/20	15.4	406	0.77	7.24	173.70	42	--	--	--	--	--	--		
MW-202	12/16/20	12.44	272	0.20	7.36	111.10	88	1.20	<0.200	<0.400	9.44 J+	12.90	0.436		
MW-203	01/13/04	12.4	243	2.91	6.38	-6.9	13.7	--	--	--	--	--	--		
MW-203	04/19/04	13	369	1.02	6.58	110	39.2	1	--	--	--	2.4	--		
MW-203	07/27/04	16.4	514	1.12	6.11	90.9	32.2	--	--	--	--	--	--		
MW-203	10/18/04	14.8	643	0.35	9.42	136.8	110	--	--	--	--	--	--		
MW-203	01/25/05	12.9	476	2.79	6.37	21	210	--	--	--	--	--	--		
MW-203	04/19/05	12.8	44	0	6.22	0	5	5.5	--	--	6.48	--	--		
MW-203	07/13/05	15	351	0.67	6.34	-46	15	--	--	--	--	--	--		
MW-203	10/20/05	15.9	902	1.12	6.69	-48.7	34	--	--	--	--	--	--		
MW-203	01/23/06	11.4	131	2.2	6.45	7.6	60	--	--	--	--	--	--		
MW-203	11/18/08	13.9	448	10.3	7.11	87	190	1.35	--	--	17.1	--	--		
MW-203	04/08/09	12.23	136	1.87	6.83	-31	338	--	--	--	--	--	--		
MW-203	11/17/09	12.2	25.8	5.49	6.28	197	45.6	< 0.1	--	--	--	8.3	--		
MW-203	04/26/10	12.7	40.9	0.3	6.81	-109	80.1	--	--	--	--	--	--		
MW-203	10/25/10	14.1	43.8	1.58	6.1	-4	51.8	4.3	--	--	14	--	--		
MW-203	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--		
MW-203	10/26/11	13.98	384	2.94	8.4	-80.9	10.9	8.8	--	--	< 0.50	--	--		
MW-203	06/13/12	12.8	375	4.27	7.2	-38	22.3	--	--	--	--	--	--		
MW-203	11/27/12	14.83	250	0	6.61	22	41.7	--	--	--	24.4	--	--		
MW-203	11/06/13	12.59	486	0.18	6.35	-51	0	3	--	--	< 0.50	3.68	0.178		
MW-203	11/06/14	16.13	236	4.55	6.71	135.1	28.4	1.5	0.42 J	< 0.25	14.5	< 0.200	0.127		
MW-203	12/09/15	12.51	0.407	0	6.05	-60	67.2	5	< 0.10	< 0.10	4.13	24	0.197		
MW-203	05/04/16	12.93	266	4.91	6.42	-108	14.5	--	--	--	--	--	--		
MW-203	12/13/16	10.46	221	0.73	6.25	-88	9.6	0.5	< 0.0400	< 0.0400	2.27	14.1	0.134		
MW-203	06/14/17	15.02	203	0.23	6.09	-205.4	12.7	--	--	--	--	--	--		
MW-203	12/08/17	11.65	274	1.6	6.3	43.8	0	1.25	< 0.0400	< 0.0400	21.6	3.32	0.166		

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L	
MW-203	06/14/18	13.9	265	1.93	6.25	3.9	35.1	--	--	--	--	--	--	
MW-203	12/20/18	12.8	357	0.78	7.41	-44.6	>1000	1.4	0.307	0.307	7.81	2.32	0.195	
MW-203	05/16/19	10.89	353	1.89	5.52	-1	99	--	--	--	--	--	--	
MW-203	12/10/19	12.77	441	4.84	5.3	0.5	41	3	<0.0600	<0.0600	1.34 J	20	0.207	
MW-203	06/29/20	15.1	339	1.06	7.18	-9.10	10	--	--	--	--	--	--	
MW-203	12/15/20	12.26	319	0.77	8.07	130.10	87	2.00	1.49	<0.400	35.80	<1.00	0.0182	
MW-204	12/13/16	10.72	173	0.99	5.84	21	4	--	--	--	--	--	--	
MW-204	12/06/17	13.48	129	12.04	5.6	49.8	6.22	--	--	--	--	--	--	
MW-204	12/19/18	12.9	218	0.33	6.98	-66.1	27	--	--	--	--	--	--	
MW-204	12/10/19	13.47	340	1.83	6.01	-6	22	--	--	--	--	--	--	
MW-204	12/16/20	13.41	347	1.00	6.27	190.10	70	--	--	--	--	--	--	
MW-206A	12/12/16	11.31	482	0.68	6.6	-104.9	9.44	--	--	--	--	--	--	
MW-206A	12/08/17	11.87	491	1.39	6.63	34	0	--	--	--	--	--	--	
MW-206A	12/20/18	13.1	605	0.81	7.41	-52.3	70	--	--	--	--	--	--	
MW-206A	12/10/19	13.08	617	2.28	6.07	-41.9	11	--	--	--	--	--	--	
MW-206A	12/16/20	12.02	718	0.22	9.45	42.10	440	--	--	--	--	--	--	
MW-213	05/03/16	14.65	12440	0.13	8.26	-330	0	--	--	--	--	--	--	
MW-213	12/13/16	9.57	18.7	5.52	8.28	-321	5.6	--	--	--	--	--	--	
MW-213	06/14/17	15.37	10550	0.23	7.03	-330.2	7.36	--	--	--	--	--	--	
MW-213	12/07/17	12.43	13640	0.55	8.14	-72.3	0	--	--	--	--	--	--	
MW-213	06/12/18	14.43	8410	0.91	7.65	-91.3	3.02	--	--	--	--	--	--	
MW-213	12/19/18	12.8	11390	0.82	7.57	-45.6	5	--	--	--	--	--	--	
MW-213	05/16/19	14.8	11641	1.84	7.5	79.5	2	--	--	--	--	--	--	
MW-213	12/11/19	10.91	1322	1.28	8.51	-112.7	16	--	--	--	--	--	--	
MW-213	06/29/20	13	16341	0.34	7.83	191.70	9	--	--	--	--	--	--	
MW-213	12/16/20	12.38	17,924	0.08	7.99	53.20	0	--	--	--	--	--	--	
MW-214	05/03/16	14.91	10960	0.44	8.16	-363	0	--	--	--	--	--	--	
MW-214	12/14/16	10.5	312	7.24	6.98	39	0	--	--	--	--	--	--	
MW-214	06/14/17	15.55	10395	0.05	8.14	-358.6	0.85	--	--	--	--	--	--	
MW-214	12/07/17	14.01	7725	838.05	8.01	-355.1	3.11	--	--	--	--	--	--	
MW-214	06/12/18	14.77	3900	0.74	7.82	-90.5	0	--	--	--	--	--	--	

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L	
MW-214	12/19/18	13.4	11888	0.12	7.45	-101.6	29	--	--	--	--	--	--	
MW-214	05/16/19	15.7	10667	0.59	7.43	-62.3	3	--	--	--	--	--	--	
MW-214	12/11/19	11.41	1576	1.16	10.33	-211.5	9	--	--	--	--	--	--	
MW-214	06/29/20	15.93	1516	1.66	7.91	-152.70	12	--	--	--	--	--	--	
MW-214	12/16/20	13.00	17,750	0.15	6.90	95.20	6	--	--	--	--	--	--	
MW-301	02/22/16	12.32	449	0.34	6.5	-127.1	15.1	--	--	--	--	--	--	
MW-301	05/02/16	17.58	257	0.29	6.6	-119.6	6.74	--	--	--	--	--	--	
MW-301	08/29/16	18.76	183	1.96	6.86	5	0	--	--	--	--	--	--	
MW-301	12/12/16	10.16	357	2.37	6.73	-140	0	--	--	--	--	--	--	
MW-301	03/13/17	11.62	355	0	6.72	-125	0	--	--	--	--	--	--	
MW-301	06/13/17	15.6	192	0.37	6.59	-107.4	--	--	--	--	--	--	--	
MW-301	08/22/17	20.23	187	0	7.32	-105	0	--	--	--	--	--	--	
MW-301	12/08/17	14.93	151	1.2	6.89	-118.3	-11	--	--	--	--	--	--	
MW-301	03/06/18	12.6	435	0.82	6.78	19.7	3.19	--	--	--	--	--	--	
MW-301	06/13/18	16.7	521	0.21	6.61	-76.4	1.8	--	--	--	--	--	--	
MW-301	09/06/18	18.95	651	0.16	6.57	-94.8	1.34	7	--	--	--	--	--	
MW-301	12/20/18	15.1	836	0.12	6.53	-50	14	--	--	--	--	--	--	
MW-301	03/19/19	13.4	930	1.02	7.52	-48.5	119	--	--	--	--	--	--	
MW-301	05/16/19	12.3	693	0.71	6.11	-52	97	--	--	--	--	--	--	
MW-301	09/17/19	15.31	373	0.87	6.7	-23.8	11	--	--	--	--	--	--	
MW-301	12/11/19	14.25	755	10.14	7.15	55.9	64	--	--	--	--	--	--	
MW-301	04/28/20	13.4	628	0.51	7.56	14.60	14	--	--	--	--	--	--	
MW-301	06/29/20	20.47	572	0.66	6.50	-28.40	60	--	--	--	--	--	--	
MW-301	09/21/20	19.2	699	0.37	6.29	20.80	12	--	--	--	--	--	--	
MW-301	12/15/20	11.20	611	0.40	7.53	116.90	33	--	--	--	--	--	--	
MW-301	04/13/21	10.6	347	2.26	6.01	35.3	76	--	--	--	--	--	--	
MW-302	03/01/12	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302	06/12/12	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302	06/28/12	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302	09/25/12	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302	11/25/12	--	--	--	--	--	--	--	--	--	--	--	--	
MW-302	11/05/13	14.81	346	0.1	6.42	-67	0	6.0-6.5	--	--	13.2	< 0.200	0.349	
MW-302	11/03/14	15.91	342	0.53	6.5	-27.8	5.06	2.5	< 0.10	< 0.10	< 0.50	0.765	0.493	

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L		
MW-302	12/10/15	14.58	337	0.35	6.63	-104.8	0	1.5	< 0.10	< 0.10	< 0.50	27.4	0.402		
MW-302	05/04/16	13.6	371	4.92	6.51	-116.5	2.49	--	--	--	--	--	--		
MW-302	12/15/16	10.93	388	0.95	6.58	-89	0	1	< 0.0400	< 0.0400	< 0.128	35.1	0.572		
MW-302	06/13/17	16.99	143	0.3	5.79	39.2	--	--	--	--	--	--	--		
MW-302	08/23/17	20.32	358	9.36	7.08	-54	2.7	--	--	--	--	--	--		
MW-302	12/05/17	13.54	755	0.89	5.82	30.4	8.95	4.25	< 0.0400	< 0.0400	97.2	42.9	2.15		
MW-302	03/07/18	11.57	984	0.27	6.15	12	9.95	--	--	--	--	--	--		
MW-302	06/13/18	16.08	446	0.81	6.04	-61.4	5.51	--	--	--	--	--	--		
MW-302	09/06/18	19.67	424	0.74	6.49	-27	3.37	1.75	--	--	--	--	--		
MW-302	12/20/18	15.9	726	0.1	6.4	73	55	7	0.105	0.105	364	1.4	2.52		
MW-302	03/19/19	14.5	1321	0.4	7.44	-54.1	58	--	--	--	--	--	--		
MW-302	05/16/19	12.83	589	0.7	5.81	-53	43	--	--	--	--	--	--		
MW-302	09/17/19	14.71	424	0.79	6.75	-35.3	14	--	--	--	--	--	--		
MW-302	12/11/19	16.95	1359	2.13	8.06	-57.4	19	3	<0.0600	<0.0600	629	67.4	3.52		
MW-302	04/28/20	14	655	0.33	7.32	-25.30	16	--	--	--	--	--	--		
MW-302	06/29/20	15.22	509	0.88	6.29	-30.80	34	--	--	--	--	--	--		
MW-302	09/21/20	18	499	0.84	6.30	46.20	39	--	--	--	--	--	--		
MW-302	12/15/20	10.90	692	0.38	7.46	116.20	131	1.80	<0.200	<0.400	11.80	12.40	1.74		
MW-302	04/13/21	13.4	409	1.39	6.53	-53.4	26	--	--	--	--	--	--		
MW-303	05/04/16	11.9	91	2.92	6.42	-73.9	9.31	--	--	--	--	--	--		
MW-303	12/12/16	11.2	185	1.29	6.49	-50	0	--	--	--	--	--	--		
MW-303	06/13/17	15.03	69	0.3	6.2	15.9	--	--	--	--	--	--	--	MN	
MW-303	12/08/17	12.72	257	1.74	5.18	77.1	4.48	--	--	--	--	--	--		
MW-303	03/06/18	11.47	382	0.76	5.59	91.7	3.47	--	--	--	--	--	--		
MW-303	06/13/18	14.32	148	0.64	5.84	-19.6	4.22	--	--	--	--	--	--		
MW-303	09/06/18	18.26	388	0.32	6.38	-56.1	4.4	6	--	--	--	--	--		
MW-303	12/20/18	12.9	561	0.39	5.51	145	18	--	--	--	--	--	--		
MW-303	03/19/19	11.1	470	0.59	7.19	-34.9	20	--	--	--	--	--	--		
MW-303	05/16/19	10.49	590	1.8	5.56	-19	29	--	--	--	--	--	--		
MW-303	09/17/19	14.68	474	1.3	6.31	-24.7	7	--	--	--	--	--	--		
MW-303	12/11/19	13.89	570	0.71	7.8	-53.9	41	--	--	--	--	--	--		
MW-303	04/28/20	12.7	238	0.43	6.65	40.80	20	--	--	--	--	--	--		
MW-303	06/29/20	14.79	566	0.72	7.22	2.10	24	--	--	--	--	--	--		
MW-303	09/21/20	18.8	1105	0.25	6.50	1.40	20	--	--	--	--	--	--		

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L		
MW-303	12/15/20	10.93	382	0.42	7.20	115.80	15	--	--	--	--	--	--	--	--
MW-303	04/13/21	9.1	87	2.46	5.91	36.1	26	--	--	--	--	--	--	--	--
MW-304	11/05/13	12.2	396	0.1	6.6	-119	0	7	--	--	< 0.50	0.345	0.273		
MW-304	11/03/14	14.86	310	0.62	6.46	-36.9	11.2	5	< 0.10	< 0.10	0.51	3.60 J	0.297 J		
MW-304	12/10/15	12.81	345	0.35	6.55	100.1	3.99	3	< 0.10	< 0.10	0.873	33.7	0.39		
MW-304	05/04/16	12.9	337	1.95	6.35	-103.1	6.29	--	--	--	--	--	--	--	--
MW-304	12/15/16	9.2	342	2.4	6.65	-92	0	0.5	< 0.0400	< 0.0400	3.35	28.2	0.276		
MW-304	06/13/17	16.82	162	1.47	6.27	-24.2	--	--	--	--	--	--	--	--	--
MW-304	08/23/17	20.76	529	0	7.09	-55	0.1	--	--	--	--	--	--	--	--
MW-304	12/05/17	13.01	1421	1	3.42	134.2	3.96	2.25	< 0.0400	< 0.0400	253	18.6	8.94		
MW-304	03/06/18	12.36	794	1.52	4.82	105.9	3.92	--	--	--	--	--	--	--	--
MW-304	06/13/18	16.04	305	0.19	6.12	-63.2	5.78	--	--	--	--	--	--	--	--
MW-304	09/06/18	20.2	439	0.48	4.72	127.5	3.83	--	--	--	--	--	--	--	--
MW-304	12/20/18	14.3	830	0.19	4.19	272	96	6.5	0.0730 J	0.0730 J	520	2.51	2.74		
MW-304	03/19/19	11.8	155	0.71	7.53	-30.3	24	--	--	--	--	--	--	--	--
MW-304	05/16/19	10.89	367	1.27	4.82	36	9	--	--	--	--	--	--	--	--
MW-304	09/17/19	13.56	323	1.29	6.73	5.4	15	--	--	--	--	--	--	--	--
MW-304	12/11/19	15.3	1518	5.46	8.24	91.6	62	6	< 0.0600	< 0.0600	908	11.3	4.79		
MW-304	04/28/20	12.4	324	0.59	6.92	25.80	10	--	--	--	--	--	--	--	--
MW-304	06/29/20	14.78	301	0.78	6.83	-13.60	26	--	--	--	--	--	--	--	--
MW-304	09/21/20	16.7	393	0.22	5.78	59.30	41	--	--	--	--	--	--	--	--
MW-304	12/15/20	11.07	457	0.33	7.32	120.80	32	1.00	< 0.200	< 0.400	75.10	50.60	0.483		
MW-304	04/13/21	9.0	92	2.60	6.00	79.8	33	--	--	--	--	--	--	--	--
MW-307	11/26/12	12.7	332	0	7.18	-62	36.6	--	--	--	1.5	--	--		
MW-307	11/06/13	12.31	231	0.07	6.42	-106	0.8	3.5	--	--	< 0.50	< 0.200	0.217		
MW-307	11/04/14	14.49	383	0.26	6.86	-107	6.9	4.5	< 0.10	< 0.10	< 0.50	18.2	0.513		
MW-307	12/09/15	12.78	225	0.51	6.4	-77.6	7.89	2.25	< 0.10	< 0.10	< 0.50	29.6	0.338		
MW-307	02/23/16	10.43	225	0.27	6.21	-68.9	9.98	--	--	--	--	--	--	--	--
MW-307	05/03/16	12.71	211	0.39	6.05	-54	9.27	--	--	--	--	--	--	--	--
MW-307	08/30/16	16.9	198	1.18	6.91	67	0	--	--	--	--	--	--	--	--
MW-307	12/13/16	10.28	138	0.57	6.46	-87.4	8.09	1.5	< 0.0400	< 0.0400	< 0.256	21.2	0.235		
MW-307	03/14/17	11.62	224	0	6.46	-79	0	--	--	--	--	--	--	--	--
MW-307	06/15/17	12.72	126	0.33	5.4	15.1	1.91	--	--	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L		
MW-307	08/23/17	17.87	149	0	7.03	-13	2.1	--	--	--	--	--	--	--	--
MW-307	12/06/17	14.55	405	1.49	6.18	-47.1	0	0.6	< 0.0400	< 0.0400	465	37.1	1.07		
MW-307	03/08/18	13.9	270	0.38	6.42	2.6	5.1	--	--	--	--	--	--	--	--
MW-307	06/14/18	13.8	205	0.45	6.55	-23	2.92	--	--	--	--	--	--	--	--
MW-307	09/04/18	18.44	235	0.99	6.11	-25.6	0	2	--	--	--	--	--	--	--
MW-307	12/19/18	16.6	343	2.15	7.69	28.7	17	1.4	< 0.0400	< 0.0400	82.6	7.61	0.669		
MW-307	03/18/19	14.3	530	0.85	6.79	-62.3	20	--	--	--	--	--	--	--	--
MW-307	05/16/19	14.1	315	0.72	6.82	-90.6	4	--	--	--	--	--	--	--	--
MW-307	09/17/19	13.21	231	1.15	6.95	1.6	10	--	--	--	--	--	--	--	--
MW-307	12/10/19	15.65	541	1.37	6.88	-44.6	18	5.5	<0.0600	<0.0600	210	60.4	1.21		
MW-307	04/27/20	13.6	677	0.6	6.72	-96.40	43	--	--	--	--	--	--	--	--
MW-307	06/29/20	14.8	505	0.34	6.82	115.90	40	--	--	--	--	--	--	--	--
MW-307	09/21/20	15.8	476	0.41	5.96	37.20	29	--	--	--	--	--	--	--	--
MW-307	12/16/20	13.16	694	0.32	7.50	130.10	0	2.40	<0.200	<0.400	8.26 J+	51.80	1.17		
MW-307	04/12/21	11.2	276	1.91	6.47	-56.9	65	--	--	--	--	--	--	--	--
MW-308	02/23/16	10.09	657	0.32	6.78	-36.3	9.17	--	--	--	--	--	--	--	--
MW-308	05/03/16	13.49	431	0.31	6.52	-42.7	7.44	--	--	--	--	--	--	--	--
MW-308	08/30/16	16.93	224	1.43	7	50	0	--	--	--	--	--	--	--	--
MW-308	12/13/16	10.31	577	0.51	6.75	-22.5	8.43	1.5	< 0.0400	< 0.0400	141	1.53	1.05		
MW-308	03/14/17	10.27	587	0	6.99	86	0	--	--	--	--	--	--	--	--
MW-308	06/15/17	13.16	355	0.9	7.07	-53	7.5	--	--	--	--	--	--	--	--
MW-308	08/23/17	18.34	235	0	7.15	-32	0	--	--	--	--	--	--	--	--
MW-308	12/06/17	13.3	591	801.24	6.76	-73.2	3.97	1.7	< 0.0400	< 0.0400	21.4	1.24	1.49		
MW-308	03/08/18	10.08	758	0.29	6.74	-26.7	6.79	--	--	--	--	--	--	--	--
MW-308	06/14/18	14.41	208	0.43	6.34	-13.5	4.1	--	--	--	--	--	--	--	--
MW-308	09/05/18	17.87	270	0.64	6.57	-45.2	0	2	--	--	--	--	--	--	--
MW-308	12/19/18	10.7	579	1.68	6.94	52.4	30	0	< 0.0400	< 0.0400	48.1	0.167 J	0.0912		
MW-308	03/18/19	12.5	912	0.63	7.03	-61.3	15	--	--	--	--	--	--	--	--
MW-308	05/16/19	13.2	311	0.29	6.78	-107.3	10	--	--	--	--	--	--	--	--
MW-308	09/17/19	12.9	213	1.61	6.64	2.6	12	--	--	--	--	--	--	--	--
MW-308	12/09/19	14.07	386	1.89	6.32	-53.5	10	5.5	<0.0600 J	<0.0600 J	93.9	16.1	1.01		
MW-308	04/27/20	13.3	825	0.77	6.43	-73.10	31	--	--	--	--	--	--	--	--
MW-308	06/29/20	15.3	726	0.44	7.05	108.80	24	--	--	--	--	--	--	--	--
MW-308	09/21/20	15.7	489	0.7	5.69	239.30	38	--	--	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters							Laboratory Parameters						
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L		
MW-308	12/16/20	11.78	556	0.39	7.62	123.70	11	2.60	<0.200	<0.400	3.79	J+	4.57	0.293	
MW-308	04/12/21	10.4	323	2.15	6.72	142.2	38	--	--	--	--	--	--	--	
MW-309	05/04/16	14.84	208	2.8	6.5	-102.7	8.08	--	--	--	--	--	--	--	
MW-309	12/12/16	11.39	250	0.67	6.46	-110.3	9.47	--	--	--	--	--	--	--	
MW-309	06/13/17	15.23	147	0.21	6.49	-89.1	--	--	--	--	--	--	--	--	
MW-309	12/05/17	14.56	215	1.1	6.72	-87.3	-20.7	--	--	--	--	--	--	--	
MW-309	06/12/18	16.23	161	0.53	6.41	-42	7.48	--	--	--	--	--	--	--	
MW-309	12/20/18	13.9	410	0.16	6.8	-112	21	--	--	--	--	--	--	--	
MW-309	05/16/19	11.48	588	0.57	6.16	-109	62	--	--	--	--	--	--	--	
MW-309	12/11/19	14.91	554	0.37	7.49	-70.1	37	--	--	--	--	--	--	--	
MW-309	06/29/20	17.23	582	0.72	6.71	-12.60	77	--	--	--	--	--	--	--	
MW-309	12/15/20	12.09	6.76	0.36	7.53	119.30	91	--	--	--	--	--	--	--	
MW-310	11/28/12	13.97	385	0	7.22	-88	80.6	--	--	--	< 0.50	--	--	--	
MW-310	11/05/13	14.07	396	0.05	6.44	-95	0	2.0-2.5	--	--	< 0.50	0.982	0.528		
MW-310	11/04/14	15.97	393	0.03	6.88	-101	0	1.5	< 0.10	< 0.10	< 0.50	11.5	0.615		
MW-310	12/10/15	13.23	313	0.45	6.39	-78.5	0	2	< 0.10	< 0.10	< 0.50	34.8	0.554		
MW-310	02/22/16	11.72	358	0.29	6.4	-98.5	3.83	--	--	--	--	--	--		
MW-310	05/02/16	15.68	270	0.34	6.18	-67.1	8.56	--	--	--	--	--	--		
MW-310	08/29/16	19.29	283	1.64	6.82	29	0	--	--	--	--	--	--		
MW-310	12/15/16	11.6	258	1.26	6.49	-70	0	2	< 0.0400	< 0.0400	1.13	26.4	0.485		
MW-310	03/13/17	11.24	317	0	6.53	-102	0	--	--	--	--	--	--		
MW-310	06/15/17	15.8	229	0.33	6.21	-69.1	--	--	--	--	--	--	--		
MW-310	08/22/17	23.88	365	0	6.96	-80	21.4	--	--	--	--	--	--		
MW-310	12/05/17	13.45	603	1.39	4.01	101	3.3	1.5	< 0.0400	< 0.0400	44.2	1.55	2.66		
MW-310	03/06/18	12.75	946	0.3	5.25	72.8	5.8	--	--	--	--	--	--		
MW-310	06/13/18	17.54	464	0.2	5.84	-34.4	2.01	--	--	--	--	--	--		
MW-310	09/06/18	20	293	0.67	5.45	74	2.13	3	--	--	--	--	--		
MW-310	12/20/18	15.9	605	1.43	7.1	49.6	18	3.2	0.346	0.346	318	7.48	1.63		
MW-310	03/19/19	14.4	804	1.25	7.21	-21.1	28	--	--	--	--	--	--		
MW-310	05/16/19	12.36	695	1.09	4.51	87	72	--	--	--	--	--	--		
MW-310	09/17/19	13.46	281	0.83	6.93	-23.9	16	--	--	--	--	--	--		
MW-310	12/11/19	16.4	1551	12.52	6.92	155.8	28	5	<0.0600	<0.0600	999	53.1	7.24		
MW-310	04/28/20	14	1460	0.54	6.71	64.40	18	--	--	--	--	--	--		

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-310	06/29/20	15.03	908	0.99	6.96	-21.80	47	--	--	--	--	--	--
MW-310	09/21/20	17.8	745	2.68	6.01	249.70	12	--	--	--	--	--	--
MW-310	12/15/20	11.86	1,020	0.33	7.57	116.90	64	1.60	<0.200	<0.400	167	64.90	1.48
MW-310	04/12/21	13.8	386	1.67	6.39	-28.8	92	--	--	--	--	--	--
MW-311	11/05/14	16.57	606	0	7.42	-146	7	1.5	< 0.25	< 0.25	42.3	< 0.200	1.57
MW-311	12/10/15	14.15	482	0	6.35	-103	1.4	0.75	< 0.10	< 0.10	46.4	27.4	1.45
MW-311	02/22/16	13.84	583	0.26	6.45	-103.1	4.19	--	--	--	--	--	--
MW-311	05/04/16	14.42	564	1.02	6.49	-109.3	6.22	--	--	--	--	--	--
MW-311	08/29/16	22.58	384	1.01	6.89	22	7.66	--	--	--	--	--	--
MW-311	12/15/16	12.91	270	0.4	6.64	-107.3	7.38	3	< 0.0400	< 0.0400	23.7	22.7	0.801
MW-311	03/13/17	12.31	424	0.31	6.73	-98.5	0	--	--	--	--	--	--
MW-311	06/15/17	15.25	453	0.95	7.16	-87.5	--	--	--	--	--	--	--
MW-311	08/22/17	19.69	390	8.27	7.1	-72	0	--	--	--	--	--	--
MW-311	12/07/17	15.15	276	0.38	6.61	-33.2	0	3.75	< 0.0400 J	< 0.0400 J	28.4	8.42	0.703
MW-311	03/08/18	10.87	585	1.04	6.62	-17.2	0	--	--	--	--	--	--
MW-311	06/13/18	17.24	366	0.25	6.44	-45.7	0	--	--	--	--	--	--
MW-311	09/05/18	19.44	455	0.19	6.27	38.8	3.11	--	--	--	--	--	--
MW-311	12/20/18	14.6	522	1.15	7.33	-72.6	14	1.7	< 0.0400	< 0.0400	8.59	4.44	1.02
MW-311	03/18/19	14.8	530	0.32	6.71	-73.9	3	--	--	--	--	--	--
MW-311	05/16/19	14.3	519	0.1	6.82	-71.4	5	--	--	--	--	--	--
MW-311	09/17/19	13.98	338	0.62	6.61	-22.9	3	--	--	--	--	--	--
MW-311	12/12/19	15.24	674	0.8	7.22	-84.4	3	4.5	<0.0600	<0.0600	8.28	41.5	1.81
MW-311	04/27/20	14.2	792	0.72	7.60	-83.20	9	--	--	--	--	--	--
MW-311	06/29/20	15.2	957	0.44	6.97	121.90	15	--	--	--	--	--	--
MW-311	09/21/20	17.5	763	0.26	6.53	-51.20	16	--	--	--	--	--	--
MW-311	12/15/20	14.11	877	0.20	7.80	118.00	30	2.80	<0.200	<0.400	74.20	18.30	2.04
MW-311	04/13/21	13.0	338	2.30	6.75	-71.2	18	--	--	--	--	--	--
MW-312	11/05/14	17.07	459	0.58	6.78	-92	0	5.7	< 0.25	< 0.25	< 1.3	< 0.200	0.787
MW-312	12/10/15	13.74	434	0	6.3	-89	0	1.5	< 0.10	< 0.10	< 0.50	16.8	0.717
MW-312	02/23/16	13.69	578	0.22	6.63	-113.5	8.84	--	--	--	--	--	--
MW-312	05/04/16	14.77	539	1.19	6.63	-122.1	4.05	--	--	--	--	--	--
MW-312	08/29/16	24.31	480	1.01	6.89	28	0	--	--	--	--	--	--
MW-312	12/15/16	13.74	452	0.4	6.74	-121.8	9.47	4	< 0.0400	< 0.0400	< 0.500	20.4	0.924

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-312	03/13/17	12.95	598	0	6.81	-126	0	--	--	--	--	--	--
MW-312	06/15/17	15.14	465	0.27	6.68	-106.8	--	--	--	--	--	--	--
MW-312	08/23/17	19.07	460	0	7.3	-81	0	--	--	--	--	--	--
MW-312	12/07/17	16.15	351	0.88	6.66	-107.7	1.17	2.6	< 0.0400	< 0.0400	488	3.95	0.664
MW-312	03/08/18	11.91	501	1.12	6.88	-6.3	0	--	--	--	--	--	--
MW-312	06/13/18	15.38	349	1.59	6.58	-106.1	0.92	--	--	--	--	--	--
MW-312	09/05/18	20.03	417	0.16	6.55	-72.6	3.75	6	--	--	--	--	--
MW-312	12/20/18	14.1	429	0.75	7.29	-45.3	7	2.5	< 0.0400	< 0.0400	0.164 J	4.35	0.715
MW-312	03/19/19	12.6	553	0.58	7.74	-41	3	--	--	--	--	--	--
MW-312	05/16/19	13.8	524	0.67	6.7	-101.9	2	--	--	--	--	--	--
MW-312	09/17/19	13.84	289	0.55	6.54	-31.9	2	--	--	--	--	--	--
MW-312	12/12/19	14.76	514	0.36	8.17	-86.4	5	2	<0.0600	<0.0600	0.63	22	0.957
MW-312	04/28/20	14.9	596	0.36	7.64	-85.90	4	--	--	--	--	--	--
MW-312	06/29/20	15.03	491	0.94	6.39	-25.70	12	--	--	--	--	--	--
MW-312	09/21/20	17.5	607	0.33	6.56	-35.30	20	--	--	--	--	--	--
MW-312	12/15/20	13.39	571	0.28	7.75	118.20	35	3.00	<0.200	<0.400	<1.20	6.93	1.08
MW-312	04/13/21	12.3	286	2.10	6.78	-84.4	17	--	--	--	--	--	--
MW-313	08/29/16	21.96	489	1.07	6.88	23	0	--	--	--	--	--	--
MW-313	12/12/16	14.13	474	1.04	6.82	-34.9	9.06	--	--	--	--	--	--
MW-313	03/13/17	11.3	850	0.03	6.78	-23	3.5	--	--	--	--	--	--
MW-313	06/15/17	15.94	374	1.32	6.85	-24.6	--	--	--	--	--	--	--
MW-313	08/22/17	23.47	400	8.21	7.39	-62	0	--	--	--	--	--	--
MW-313	12/07/17	15.72	395	0.99	6.95	24.8	3.22	--	--	--	--	--	--
MW-313	03/07/18	11.05	615	0.89	6.96	36.8	8.42	--	--	--	--	--	--
MW-313	06/13/18	16.73	400	0.46	6.76	-44.1	3.02	--	--	--	--	--	--
MW-313	09/05/18	20.55	447	0.18	6.76	-29.7	1.34	--	--	--	--	--	--
MW-313	12/20/18	14.7	555	1.03	7.07	-52.9	43	--	--	--	--	--	--
MW-313	03/19/19	11.1	686	0.73	7.81	-30.4	6	--	--	--	--	--	--
MW-313	05/16/19	14.5	781	0.42	7.05	-39.1	10	--	--	--	--	--	--
MW-313	09/17/19	15.71	343	0.71	6.65	-25.3	7	--	--	--	--	--	--
MW-313	12/12/19	14.86	574	0.64	7.99	-55.7	5	--	--	--	--	--	--
MW-313	04/27/20	15.6	683	1.21	7.87	3.40	11	--	--	--	--	--	--
MW-313	06/29/20	16.33	486	1.81	6.73	-74.50	32	--	--	--	--	--	--
MW-313	09/21/20	18.7	605	0.55	6.84	21.90	13	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-313	12/15/20	13.54	718	0.22	7.93	109.70	69	--	--	--	--	--	--
MW-313	04/13/21	12.9	250	2.02	6.85	-69.0	48	--	--	--	--	--	--
MW-314	08/30/16	20.6	565	1.23	6.87	82	8.52	--	--	--	--	--	--
MW-314	12/14/16	13.42	471	0.52	6.73	-90.3	9.44	--	--	--	--	--	--
MW-314	03/13/17	12.34	626	0	6.73	-53	3.9	--	--	--	--	--	--
MW-314	06/14/17	18.28	447	0.46	7.07	-87.9	8.2	--	--	--	--	--	--
MW-314	08/23/17	18.35	453	0	7.33	-35	3.6	--	--	--	--	--	--
MW-314	12/06/17	14	413	0.68	6.56	-62.5	4.2	--	--	--	--	--	--
MW-314	03/07/18	11.95	583	0.9	6.84	23.5	8.42	--	--	--	--	--	--
MW-314	06/12/18	15.92	455	0.74	6.7	-110	2.91	--	--	--	--	--	--
MW-314	09/05/18	18.9	427	0.4	6.49	-40.8	4.24	--	--	--	--	--	--
MW-314	12/20/18	14.7	567	0.16	6.79	-87	29	--	--	--	--	--	--
MW-314	03/19/19	11.4	564	0.97	7.12	-32.4	48	--	--	--	--	--	--
MW-314	05/16/19	11.01	714	0.77	6.27	-61	79	--	--	--	--	--	--
MW-314	09/17/19	--	--	--	--	--	--	--	--	--	--	--	--
MW-314	12/10/19	13.97	725	1.55	5.67	-36	7	--	--	--	--	--	--
MW-314	04/28/20	13.2	749	0.44	7.55	-53.60	7	--	--	--	--	--	--
MW-314	06/29/20	18.27	639	1.02	6.53	-29.80	16	--	--	--	--	--	--
MW-314	09/22/20	16.5	758	0.49	6.28	22.60	16	--	--	--	--	--	--
MW-314	12/15/20	13.53	800	0.15	7.78	114.80	35	--	--	--	--	--	--
MW-314	04/13/21	10.7	272	2.02	6.54	-7.9	58	--	--	--	--	--	--
MW-315	08/29/16	20.56	558	1.04	6.86	2	8.44	--	--	--	--	--	--
MW-315	12/12/16	12.07	488	1.45	6.74	-102	0	--	--	--	--	--	--
MW-315	03/13/17	12.81	522	0	6.77	-117	0	--	--	--	--	--	--
MW-315	06/15/17	14.2	450	1.27	7.21	-99	--	--	--	--	--	--	--
MW-315	08/23/17	18.2	465	0	7.3	-68	0	--	--	--	--	--	--
MW-315	12/07/17	14.59	372	0.84	6.68	-28.7	0	--	--	--	--	--	--
MW-315	03/08/18	11.74	448	1.34	6.84	20.7	0	--	--	--	--	--	--
MW-315	06/13/18	15.32	325	1	6.58	-41.5	0	--	--	--	--	--	--
MW-315	09/05/18	18.81	378	0.12	6.39	-28.8	0.54	--	--	--	--	--	--
MW-315	12/20/18	14.5	460	0.32	7.15	-92	5	--	--	--	--	--	--
MW-315	03/18/19	14.7	497	0.81	6.74	-65.4	3	--	--	--	--	--	--
MW-315	05/16/19	13.6	508	0.2	6.83	-64.3	3	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
MW-315	09/17/19	13.01	311	0.58	6.37	-41.8	4	--	--	--	--	--	--
MW-315	12/12/19	14.4	587	0.79	7.98	-67.8	3	--	--	--	--	--	--
MW-315	04/27/20	14.8	591	0.53	7.67	-70	8	--	--	--	--	--	--
MW-315	06/29/20	14.3	584	0.64	6.92	189.80	9	--	--	--	--	--	--
MW-315	09/21/20	16.7	589	0.25	6.43	-26.20	14	--	--	--	--	--	--
MW-315	12/15/20	13.69	588	0.09	7.80	119.30	43	--	--	--	--	--	--
MW-315	04/13/21	13.1	289	2.23	6.65	-68.2	22	--	--	--	--	--	--
SH-04	05/05/16	14.18	129	1.43	6.47	-107.3	8.73	--	--	--	--	--	--
SH-04	12/14/16	8.88	133	0.39	6.41	-48.2	7.21	--	--	--	--	--	--
SH-04	06/14/17	17.02	116	0.27	6.33	52.7	1.67	--	--	--	--	--	--
SH-04	12/05/17	15.32	134	0.71	6.72	-65.4	3.51	--	--	--	--	--	--
SH-04	06/13/18	16.5	140	0.47	6.12	-54.2	1.05	--	--	--	--	--	--
SH-04	12/18/18	12.3	180	1.05	7.31	-30.6	19	--	--	--	--	--	--
SH-04	05/16/19	9.31	226	0.91	5.71	-126	13	--	--	--	--	--	--
SH-04	12/11/19	14.43	391	0.63	7.51	-12.1	19	--	--	--	--	--	--
SH-04	06/29/20	14.4	219	0.49	6.46	215.30	8	--	--	--	--	--	--
SH-04	12/14/20	14.00	371	0.29	7.56	151.80	21	--	--	--	--	--	--
TX-03A	01/13/04	14	480	1.4	6.39	-59	1.8	--	--	--	--	--	--
TX-03A	04/19/04	13.7	560	1.44	6.18	21	2.4	6	--	--	< 1	--	--
TX-03A	07/27/04	17.9	589	1.31	6.26	68	3	--	--	--	--	--	--
TX-03A	10/18/04	16.7	595	2.77	6.63	-100	42	--	--	--	--	--	--
TX-03A	01/24/05	14.6	563	1.79	5.11	5	43.1	--	--	--	--	--	--
TX-03A	04/19/05	13.8	552	0	6.47	-86	20	4	--	--	< 1	--	--
TX-03A	07/12/05	17.3	477	0.16	6.55	-121	55.6	--	--	--	--	--	--
TX-03A	10/31/07	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	11/20/08	15.8	821	0.49	6.87	-59	31.8	30.4	--	--	< 1	--	--
TX-03A	04/08/09	12.84	236	0	6.58	-145	43.1	--	--	--	--	--	--
TX-03A	11/17/09	16.3	50.6	1.29	6.39	-102	9.7	36	--	--	1.2	--	--
TX-03A	04/27/10	13.2	52.8	0.21	5.76	-153	9.5	--	--	--	--	--	--
TX-03A	10/25/10	15.5	42.5	1.39	6.68	-115	48	30	--	--	6.8	--	--
TX-03A	05/23/11	--	--	--	--	--	--	--	--	--	--	--	--
TX-03A	10/27/11	15.44	478	1.72	8.5	-100.9	--	20.3	--	--	< 0.50	--	--
TX-03A	03/01/12	12.29	564	0	6.71	-118	12.6	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature oC	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-03A	06/12/12	14	507	4	7.19	-103	4.5	--	--	--	--	--	--
TX-03A	09/25/12	17.83	514	0	6.48	-139	15.2	--	--	--	--	--	--
TX-03A	11/28/12	13.79	439	0	6.7	-104	--	--	--	--	< 0.50	--	--
TX-03A	11/05/13	10.98	528	0.06	6.57	-114	0	4	--	--	< 0.50	< 0.200	0.47
TX-03A	11/04/14	16.8	424	0.38	6.49	-39	5.83	6	< 0.10	< 0.10	< 0.50	6.18	0.523
TX-03A	12/10/15	15.11	456	0.25	6.51	-103.5	6.7	0.5	< 0.10	< 0.10	< 0.50	31.7	0.5
TX-03A	02/22/16	12.73	484	0.3	6.34	-109.1	7.22	--	--	--	--	--	--
TX-03A	05/02/16	15.06	418	0.22	6.36	-103.1	3.96	--	--	--	--	--	--
TX-03A	08/29/16	18.69	395	2.27	6.84	18	0	--	--	--	--	--	--
TX-03A	12/15/16	12.31	295	0.29	6.54	-109.9	8.97	2	< 0.0400	< 0.0400	< 0.500	37.8	0.517
TX-03A	03/13/17	11.74	287	0.23	6.74	-109.5	0	--	--	--	--	--	--
TX-03A	06/13/17	14.63	322	0.24	6.32	-98	--	--	--	--	--	--	--
TX-03A	08/22/17	18.97	317	0	7.07	-87	0	--	--	--	--	--	--
TX-03A	12/05/17	13.23	477	1.83	6.57	-104.1	2.77	1.5	< 0.0400	< 0.0400	219	25.1	0.784
TX-03A	03/27/18	12.27	465	0.65	6.19	71.9	3.37	--	--	--	--	--	--
TX-03A	06/13/18	15.4	407	4.12	6.07	-82.4	0.69	--	--	--	--	--	--
TX-03A	09/06/18	19.9	551	0.14	6.24	-76.8	1.26	--	--	--	--	--	--
TX-03A	12/20/18	16.5	369	0.1	6.67	-116	16	4.5	< 0.0400	< 0.0400	19	6.46	0.465
TX-03A	03/19/19	13.9	550	0.45	7.55	-67.1	8	--	--	--	--	--	--
TX-03A	05/16/19	12.64	538	0.51	6.11	-84	12	--	--	--	--	--	--
TX-03A	09/17/19	16.79	348	0.97	6.41	3.1	8	--	--	--	--	--	--
TX-03A	12/11/19	16.75	1514	1.86	8.64	-94	5	3	<0.0600 J	<0.0600 J	704	104	2.99
TX-03A	04/28/20	14.1	881	0.46	7.5	-65.10	12	--	--	--	--	--	--
TX-03A	06/29/20	16.13	577	1.24	6.36	-20.20	13	--	--	--	--	--	--
TX-03A	09/21/20	18.1	505	0.32	6.22	74	15	--	--	--	--	--	--
TX-03A	12/15/20	13.20	501	0.31	7.59	114.00	15	2.40	<0.200	<0.400	42.30	26.20	1.16
TX-03A	04/12/21	11.6	259	1.91	6.26	-6.2	40	--	--	--	--	--	--
TES-MW-1	12/13/16	8.37	99	7.01	5.86	89	0	--	--	--	--	--	--
TES-MW-1	12/06/17	10	69	6.02	5.67	39.9	5.7	--	--	--	--	--	--
TES-MW-1	12/19/18	11.2	172	1.3	6.68	-96	24	--	--	--	--	--	--
TES-MW-1	12/09/19	13.42	172	6.2	6.51	63.9	11	--	--	--	--	--	--
TES-MW-1	12/16/20	12.07	98	0.92	7.72	135.70	36	--	--	--	--	--	--
TX-04	12/12/16	10.65	353	0.82	7.02	-108	0	--	--	--	--	--	--

**Table 5**  
**Compliance Monitoring Natural Attenuation Parameters**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Field Parameters						Laboratory Parameters					
		Temperature °C	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	ORP mv	Turbidity NTU	Ferrous Iron mg/L	Nitrogen, Nitrate mg/L	Nitrogen, Nitrite mg/L	Sulfate mg/L	Iron Dissolved mg/L	Manganese Dissolved mg/L
TX-04	12/05/17	12.06	167	0.68	7.01	-10.8	23.2	--	--	--	--	--	--
TX-04	12/18/18	14.5	233	1.26	7.69	-48.3	44	--	--	--	--	--	--
TX-04	12/12/19	14.81	295	0.44	8.46	-83.3	14	--	--	--	--	--	--
TX-04	12/14/20	14.54	334	0.17	7.81	136.90	7	--	--	--	--	--	--
TX-06A	12/12/16	11.95	212	0.55	6.55	-97.3	6.56	--	--	--	--	--	--
TX-06A	12/05/17	14.43	248	1.15	6.69	-63.6	5.63	--	--	--	--	--	--
TX-06A	12/20/18	14.5	257	0.17	6.76	-99	11	--	--	--	--	--	--
TX-06A	12/10/19	13.58	230	4.49	5.62	8.6	12	--	--	--	--	--	--
TX-06A	12/14/20	13.92	341	0.20	7.74	123.80	17	--	--	--	--	--	--

**Note:**

= Indicates data collected during this progress report period

°C = degrees Celsius

J = indicates a estimated value

J+ = The result is an estimated quantity, but the result may be biased high.

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are laboratory Repor

mg/L = milligrams per liter

mV = millivolts

NM = not measured

NTU = nephelometric turbidity unit

ORP = oxidation-reduction potential

µS/cm = microsiemens per centimeter

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-05	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.37	< 0.5	--
MW-05	04/21/04	0.0015	< 0.001	0.0053	< 0.001	< 0.25	0.41	< 0.5	--
MW-05	07/28/04	0.0015	0.001	< 0.001	0.0017	< 0.25	< 0.25	< 0.5	--
MW-05	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-05	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	< 0.25	< 0.5	--
MW-05	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	0.25	< 0.25	< 0.5	--
MW-05	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.11	< 0.25	< 0.5	--
MW-05	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.238	< 0.476	--
MW-05	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-05	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-05	10/29/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.14	< 0.1	--
MW-05	05/23/11	< 0.0003	< 0.0005	< 0.0003	< 0.0007	0.0744	--	--	--
MW-05	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.115	< 0.095	< 0.19	--
MW-05	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0954	< 0.095	--
MW-05	11/07/13	< 0.00020	0.00083 J	< 0.00020	0.00087 J	0.345	< 0.049	< 0.097	--
MW-05	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0507 J	0.137	< 0.094	--
MW-05	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-05	05/04/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	70.9 J	< 0.0398	< 0.0598	--
MW-05	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0436	< 0.0654	--
MW-05	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0860	< 0.129	--
MW-05	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0968 J	0.105 J	< 0.121	--
MW-05	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.114	< 0.124	--
MW-05	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.230 J	0.119 J	--
MW-05	05/15/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0589	< 0.108	< 0.118	--
MW-05	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.111 J	< 0.121	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071 mg/L	200 mg/L	29 mg/L	NE mg/L	1 mg/L	10 mg/L	10 mg/L	0.0058 mg/L
MW-05	06/30/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.113	< 0.124	--
MW-05	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.163	<0.340	--
MW-101	01/16/04	< 0.001	< 0.001	< 0.001	0.0028	0.55	< 0.25	< 0.5	--
MW-101	04/20/04	0.0016	< 0.001	< 0.001	0.0014	0.67	< 0.25	< 0.5	--
MW-101	07/28/04	0.0012	< 0.001	< 0.001	0.0011	1	< 0.25	< 0.5	--
MW-101	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	0.42	< 0.25	< 0.5	--
MW-101	01/26/05	< 0.001	< 0.001	< 0.001	0.0011	0.51	< 0.25	< 0.5	--
MW-101	04/19/05	0.0016	< 0.001	< 0.001	< 0.001	0.58	< 0.25	< 0.5	--
MW-101	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.31	< 0.25	< 0.5	--
MW-101	10/10/05	< 0.001	< 0.001	< 0.001	< 0.001	0.16	< 0.25	< 0.5	--
MW-101	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.223	< 0.236	< 0.476	--
MW-101	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.1	< 0.25	< 0.5	--
MW-101	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-101	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	0.15	0.13	< 0.1	--
MW-101	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0936	< 0.10	< 0.20	--
MW-101	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.188 J	0.0937 J	< 0.10	--
MW-101	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.118 J	< 0.0048	< 0.0095	--
MW-101	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.0048	< 0.0095	--
MW-101	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.129	< 0.201	--
MW-101	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.101	0.0983 J	< 0.0632	--
MW-101	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.237	0.246 J	< 0.127	--
MW-101	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.127 J	0.157 J	< 0.115	--
MW-101	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.155 J	< 0.125	--
MW-101	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.238	<0.397	--
MW-102	01/14/04	0.0021	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-102	04/21/04	0.0036	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	10/18/04	0.0011	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	01/25/05	0.0024	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-102	04/18/05	0.0027	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.077	< 0.25	< 0.5	--
MW-102	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-102	01/26/06	0.00498	< 0.0005	0.00174	0.00201	< 0.05	< 0.238	< 0.472	--
MW-102	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
MW-102	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-102	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.113	< 0.20	--
MW-102	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-102	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	0.144 J	--
MW-102	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0568 J	< 0.094	--
MW-102	12/08/15	< 0.0020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.233	< 0.388	--
MW-102	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0413	< 0.0620	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
MW-102	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.774	0.197 J	--
MW-102	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.151 J	< 0.123	--
MW-102	12/16/20	< 0.00020 J	< 0.0002 J	< 0.00020 J	< 0.0005 J	< 0.250	< 0.248	< 0.413	--
MW-104	01/15/04	0.0019	< 0.001	0.15	0.1028	<b>2.7</b>	1.2	< 0.5	0.00555
MW-104	01/15/04	0.0012	< 0.001	0.1	0.0706	<b>2</b>	1.3	< 0.5	< 0.005
MW-104	04/21/04	0.0066	0.0025	0.35	0.0931	<b>4.3</b>	1.7	< 0.5	0.00575
MW-104	07/28/04	0.0018	< 0.001	0.048	0.017	<b>2.2</b>	0.87	< 0.5	< 0.005

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-104	07/28/04	0.0017	< 0.001	0.049	0.019	<b>2.1</b>	1.3	< 0.5	< 0.005
MW-104	10/19/04	< 0.001	< 0.001	0.0021	0.0016	< 0.25	0.61	< 0.5	< 0.005
MW-104	01/24/05	< 0.001	< 0.001	0.0012	< 0.001	< 0.25	0.74	< 0.5	< 0.005
MW-104	04/18/05	< 0.001	< 0.001	0.057	0.0067	<b>1.4</b>	1.2	< 0.5	< 0.005
MW-104	07/12/05	0.0014	< 0.001	0.11	0.012	<b>1.8</b>	0.7	< 0.5	< 0.005
MW-104	10/19/05	< 0.001	< 0.001	0.024	0.0049	0.29	0.62	< 0.5	< 0.005
MW-104	01/25/06	0.00245	0.00129	0.33	0.0273	<b>2.07</b>	3.73	< 0.962	0.0077
MW-104	10/30/07	--	--	--	--	<b>1.25</b>	--	--	< 0.002
MW-104	05/20/08	--	--	--	--	<b>4</b>	2.1	< 0.5	--
MW-104	11/18/08	--	--	--	--	0.13	0.69	< 0.5	< 0.005
MW-104	04/08/09	--	--	--	--	<b>1.8</b>	1.6	< 0.1	0.00326
MW-104	11/17/09	< 0.0005	< 0.001	0.0016	< 0.001	0.21	0.17	< 0.1	0.00778
MW-104	04/27/10	--	--	--	--	<b>3.9</b>	2.5	0.27	0.00232
MW-104	10/26/10	--	--	--	--	0.23	0.23	< 0.1	--
MW-104	05/23/11	<0.0006	0.003	0.104	0.0018	<b>4.44</b>	0.448	<0.097	< 0.01
MW-104	10/25/11	--	--	--	--	<b>3.38</b>	0.413	< 0.20	< 0.01
MW-104	03/01/12	0.00079 J	0.0015	0.0467	0.0016 J	<b>3.69</b>	--	--	--
MW-104	06/13/12	--	--	--	--	<b>4.78</b>	0.423	< 0.10	< 0.01
MW-104	09/26/12	0.00066 J	0.0024	0.0509	0.0019 J	<b>4.54</b>	--	--	--
MW-104	11/29/12	0.00038 J	0.00037 J	0.0113	< 0.00046	0.592	0.315	< 0.098	--
MW-104	05/14/13	--	--	--	--	<b>5.07</b>	0.601	< 0.096	< 0.01
MW-104	11/07/13	--	--	--	--	<b>3.62</b>	0.666 J	< 0.095	< 0.01
MW-104	04/24/14	--	--	--	--	<b>5.68</b>	1.13	0.100 J	< 0.01
MW-104	11/05/14	--	--	--	--	0.441	0.527	0.221	< 0.01
MW-104	05/20/15	--	--	--	--	<b>2.82</b>	0.686	< 0.097	< 0.01
MW-104	12/09/15	--	--	--	--	< 0.100	0.408	< 0.398	< 0.00200
MW-104	05/05/16	--	--	--	--	<b>7.45</b>	2.85	0.144 J	0.00285

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-104	12/14/16	--	--	--	--	<b>3.61</b>	2.22	0.155 J	0.000902 J
MW-104	06/14/17	--	--	--	--	<b>4.85</b>	2.9	0.159 J	0.00444
MW-104	12/07/17	< 0.0000993	< 0.000312	0.00411	< 0.000442	0.53	1.34	0.126 J	--
MW-104	06/12/18	--	--	--	--	<b>3.04</b>	1.86	< 0.122	0.00207 J
MW-104	12/19/18	--	--	--	--	0.552	2.25	0.967	0.00185 J
MW-104	05/15/19	--	--	--	--	<b>2.59</b>	1.64	0.316 J	0.00163 J
MW-104	12/10/19	--	--	--	--	0.956	0.713	< 0.122	< 0.000995
MW-104	06/30/20	--	--	--	--	<b>1.02</b>	0.914	0.117 J	0.00408
MW-104	12/14/20	<0.00020	<0.0002	0.00171	<0.0005	0.487	1.56	1.31	<0.004
MW-105	01/15/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.4	< 0.5	0.00647
MW-105	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.65	< 0.5	0.00793
MW-105	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.2	< 0.5	0.0128
MW-105	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.8	< 0.5	0.0311
MW-105	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3	< 0.5	0.00824
MW-105	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	0.78	0.00615
MW-105	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	< 0.5	< 0.005
MW-105	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.7	0.66	< 0.005
MW-105	01/25/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	3.95	< 0.962	0.00321
MW-105	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	--	--	< 0.005
MW-105	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	0.021
MW-105	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	--	--	--
MW-105	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.253	< 0.20	< 0.01
MW-105	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.291	< 0.098	< 0.01
MW-105	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.189	< 0.095	<b>0.0179</b>
MW-105	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.377	0.192	< 0.01
MW-105	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.406	0.408	<b>0.0152</b>

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-105	12/14/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.85	0.377	<b>0.0116</b>
MW-105	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.146 J	0.624	0.176 J	< 0.00200
MW-105	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.672	0.737	0.0107
MW-105	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.388	0.382 J	<b>0.00754</b>
MW-105	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	1.81	0.972	0.00421
MW-111	01/15/04	0.047	< 0.001	< 0.001	< 0.001	< 0.25	0.98	< 0.5	--
MW-111	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.48	< 0.5	--
MW-111	07/27/04	0.015	< 0.001	< 0.001	0.0012	< 0.25	0.45	< 0.5	--
MW-111	10/19/04	0.036	0.0012	< 0.001	0.0035	0.35	0.45	< 0.5	--
MW-111	01/25/05	<b>0.079</b>	< 0.005	< 0.005	< 0.005	0.58 J	0.63	< 0.5	--
MW-111	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.096	< 0.25	< 0.5	--
MW-111	07/12/05	0.0094	< 0.001	< 0.001	< 0.001	0.23	0.26	< 0.5	--
MW-111	10/18/05	0.017	< 0.001	< 0.001	0.0013	0.26	0.27	< 0.5	--
MW-111	01/25/06	<b>0.0956</b>	0.00189	0.000796	0.0037	0.683	0.998	< 0.481	--
MW-111	11/19/08	0.014	< 0.005	< 0.005	< 0.005	0.23	0.37	< 0.5	--
MW-111	11/17/09	0.041	< 0.001	< 0.001	< 0.001	0.24	0.11	< 0.1	--
MW-111	10/26/10	0.0043	< 0.001	< 0.001	< 0.001	< 0.1	0.12	< 0.1	--
MW-111	05/23/11	0.00064	<.0005	<.0003	<.0007	<0.050	--	--	--
MW-111	10/25/11	0.00094	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.122	< 0.20	--
MW-111	11/29/12	0.0248	0.001	< 0.00020	0.0012 J	0.371	0.269	< 0.10	--
MW-111	11/07/13	<b>0.0845</b>	0.001	0.00023 J	0.00069 J	0.208	0.174	< 0.095	--
MW-111	11/05/14	<b>0.0574</b>	0.0012	0.00083 J	0.00047 J	0.232	0.167	0.118 J	--
MW-111	12/08/15	<b>0.386</b>	0.00649	0.00291	0.00333	0.944	0.335	<0.388	--
MW-111	05/04/16	<b>0.0719</b>	0.00157	0.00158	0.00125 J	0.294	0.141	< 0.0598	--
MW-111	12/14/16	<b>0.248</b>	0.00375 J	0.00243 J	<0.00442	0.739 J	0.343	0.0883 J	--
MW-111	06/14/17	0.00575	0.000480 J	< 0.000198	0.000466 J	0.0836 J	0.142 J	< 0.123	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-111	12/06/17	<b>0.202</b>	0.00632	0.00214	0.00507	0.792	0.597	< 0.132	--
MW-111	06/12/18	0.0273	0.00181	0.000334 J	0.00238 J	0.227	0.210 J	< 0.123	--
MW-111	12/19/18	0.0592	0.00574	0.0012	0.00475	0.766	1.27	0.462	--
MW-111	05/15/19	0.00484	< 0.000170	< 0.000190	< 0.000580	0.149	0.195 J	< 0.117	--
MW-111	12/11/19	0.000270 J	< 0.000312	< 0.000198	< 0.000422	< 0.0704	0.255 J	< 0.125	--
MW-111	06/29/20	0.00124	0.000637 J	< 0.000198	0.000648 J	0.0898 J	< 0.110	< 0.120	--
MW-111	12/14/20	0.00163	0.000945	<0.00020	0.00118	<0.250	0.346	0.348	--
MW-112A	01/15/04	0.02	< 0.001	< 0.001	< 0.001	0.25	0.63	< 0.5	--
MW-112A	04/21/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	0.56	< 0.75	--
MW-112A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.51	< 0.5	--
MW-112A	10/19/04	0.0013	< 0.001	< 0.001	< 0.001	< 0.25	0.68	< 0.5	--
MW-112A	01/24/05	0.003	0.0012	< 0.001	0.001	0.44	0.65	< 0.5	--
MW-112A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.42	1.4	< 0.5	--
MW-112A	07/12/05	0.0029	< 0.001	< 0.001	< 0.001	0.28	0.48	< 0.5	--
MW-112A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-112A	01/26/06	0.00211	< 0.0005	< 0.0005	< 0.001	0.236	0.602	< 0.485	--
MW-112A	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	0.3	1.3	< 0.5	--
MW-112A	11/18/09	0.00075	< 0.001	< 0.001	< 0.001	0.2	0.23	< 0.1	--
MW-112A	10/29/10	0.036	< 0.001	< 0.001	0.0015	0.77	0.6	< 0.1	--
MW-112A	05/24/11	0.00041	<0.0005	<0.0003	<0.0007	0.129	--	--	--
MW-112A	10/25/11	0.0055	< 0.0010	< 0.0010	< 0.0020	0.292	0.2	< 0.20	--
MW-112A	11/25/12	0.0058	0.00022 J	0.00037 J	< 0.00046	0.197 J	0.282	< 0.10	--
MW-112A	11/04/13	0.0238	0.00068 J	0.0376	0.0012 J	0.909	1.72	< 0.19	--
MW-112A	11/06/14	0.0156	0.0014	0.028	0.0016 J	0.76	1.43	0.295	--
MW-112A	12/08/15	0.0297	0.00368	0.00219	0.00406	<b>1.31</b>	5.89	< 0.389	--
MW-112A	05/05/16	0.0248	0.00131	0.0992	0.00688	<b>1.75</b>	7.96	0.132 J	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-112A	12/12/16	0.0426	0.00666	0.0109	0.0103	<b>2.27</b>	2.77	0.180 J	--
MW-112A	06/15/17	0.0348	0.0037	0.02	0.00464 J	<b>1.46</b>	7.34	0.210 J	--
MW-112A	12/07/17	0.00111	0.00169	< 0.000198	0.00196 J	0.811	1.71	0.151 J	--
MW-112A	06/13/18	0.0289	0.00297	0.134	0.00748	<b>2.39</b>	<b>12.6</b>	0.150 J	--
MW-112A	12/20/18	0.00166	0.00171	0.000248 J	0.00196 J	0.728	2.93	0.789	--
MW-112A	05/16/19	0.0111	0.00173	0.0231	0.00208 J	<b>2</b>	2.37	0.222 J	--
MW-112A	12/12/19	0.0149	0.00296	0.00154	0.00385	<b>1.91</b>	<b>12.2</b>	0.419 J	--
MW-112A	06/30/20	0.00354 J	0.000903 J	0.0215 J	0.00155 J	<b>1.05</b>	3.62	0.204 J	--
MW-112A	12/14/20	0.00442	0.00253	0.00186	0.00375	<b>1.77 J+</b>	2.30	1.02	--
MW-201	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	04/20/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-201	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.33	< 0.5	--
MW-201	04/20/05	< 0.001	< 0.001	< 0.001	0.0021	< 0.25	< 0.25	< 0.5	--
MW-201	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.12	0.7	< 0.5	--
MW-201	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.22	4.6	2.3	--
MW-201	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.050	0.342	< 0.476	--
MW-201	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.41	< 0.5	--
MW-201	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-201	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.18	< 0.1	--
MW-201	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0899	1.46	0.181	--
MW-201	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.122	< 0.10	--
MW-201	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	0.0964 J	0.52	< 0.094	--
MW-201	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.173	0.195	--
MW-201	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	0.121	0.323	< 0.389	--
MW-201	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.203	0.174 J	--
MW-201	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.159 J	< 0.132	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-201	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.281	0.383 J	--
MW-201	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	0.315	<0.368	--
MW-202	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	<b>2.5</b>	<b>15</b>	< 10	--
MW-202	04/20/04	0.014	0.0062	0.074	0.021	<b>4.4</b>	<b>28</b>	< 10	--
MW-202	01/26/05	< 0.005	< 0.005	< 0.005	< 0.005	<b>7.7</b>	5.2	< 5	--
MW-202	04/20/05	0.016	0.0022	0.036	0.0237	<b>3.7</b>	6.2	< 5	--
MW-202	07/13/05	0.016	0.0033	0.067	0.0191	<b>3.5</b>	6.2	< 1	--
MW-202	10/20/05	0.019	0.0021	0.058	0.0056	<b>3.3</b>	5.9	< 2.5	--
MW-202	01/26/06	0.0224	0.00598	0.041	0.0191	<b>5.79</b>	<b>11.2</b>	< 4.76	--
MW-202	04/25/06	0.00749	0.00378	0.062	0.0124	<b>6.78</b>	8.7	<4.85	--
MW-202	10/12/06	0.00936	0.00339	0.0828	0.00616	<b>5.65</b>	<b>11.5</b>	0.834	--
MW-202	04/26/07	0.00825	0.0048	0.063	<0.015	<b>4.78</b>	8.24	1.05	--
MW-202	10/30/07	--	--	--	--	<b>4.55</b>	<b>10.9</b>	< 1	--
MW-202	05/20/08	--	--	--	--	<b>2.3</b>	1.8	< 2.5	--
MW-202	11/20/08	--	--	--	--	<b>5</b>	2.2	< 0.5	--
MW-202	04/07/09	--	--	--	--	<b>4.8</b>	<b>14</b>	< 0.1	--
MW-202	11/19/09	--	--	--	--	<b>6.6</b>	<b>20</b>	< 0.5	--
MW-202	04/27/10	--	--	--	--	<b>3.3</b>	6.4	0.12	--
MW-202	10/27/10	0.0081	0.0031	0.066	0.0022	<b>6</b>	5.4	< 0.1	--
MW-202	05/23/11	--	--	--	--	<b>3.5</b>	1.84	< 0.097	--
MW-202	10/26/11	--	--	--	--	<b>4.3</b>	1.02	< 0.21	--
MW-202	03/02/12	0.0053	0.0019	0.0107	0.0013 J	<b>3.87</b>	--	--	--
MW-202	06/13/12	--	--	--	--	<b>3.31</b>	1.54	< 0.10	--
MW-202	09/26/12	0.0058	0.0029 J	0.0378	< 0.0018	<b>4.07</b>	--	--	--
MW-202	11/27/12	0.0113	0.0034	0.0274	0.0022	<b>6.07</b>	2.67	< 0.30	--
MW-202	05/15/13	--	--	--	--	<b>3.83</b>	1.62	< 0.096	--

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**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-202	11/06/13	< 0.00020	0.0027	0.0335	0.0012 J	<b>4.68</b>	1.29	< 0.095	--
MW-202	04/22/14	--	--	--	--	<b>3.22</b>	2.18	< 0.28	--
MW-202	11/06/14	0.0083	0.0026	0.0154	0.0011	<b>5.1</b>	2.45	0.282 J	--
MW-202	05/19/15	--	--	--	--	<b>2.96</b>	0.842	< 0.096	--
MW-202	12/10/15	0.00419	0.00124	0.00277	< 0.0030	<b>5.67</b>	<b>27.2</b>	0.565	--
MW-202	05/03/16	--	--	--	--	<b>2.89</b>	2.29	0.111 J	--
MW-202	12/13/16	0.00606	0.0028	0.00901	0.00110 J	<b>2.92</b>	4.04	0.201	--
MW-202	06/14/17	--	--	--	--	<b>2.58</b>	3.68	0.134 J	--
MW-202	12/06/17	0.00102	< 0.000312	0.00144	0.00129 J	<b>3.02</b>	<b>25.8</b>	0.402 J	--
MW-202	06/14/18	--	--	--	--	<b>1.49</b>	4.1	0.166 J	--
MW-202	12/19/18	0.00178	0.000839 J	0.00444	0.00187 J	<b>4.74</b>	<b>48.3</b>	1.69	--
MW-202	05/16/19	--	--	--	--	<b>3.04</b>	<b>11.8</b>	0.718	--
MW-202	12/10/19	0.00179	0.00159	0.0128	0.00202 J	<b>4.29</b>	<b>24</b>	0.534	--
MW-202	06/29/20	--	--	--	--	<b>1.78</b>	<b>13.1</b>	0.412	--
MW-202	12/16/20	0.00132 J	0.000409 J-	0.00236 J	<0.0005 J	<b>3.47</b>	<b>36.60</b>	0.641	--
MW-203	01/13/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-203	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.26	< 0.5	--
MW-203	07/27/04	0.013	< 0.001	0.0069	< 0.001	<b>2.6</b>	0.45	< 0.5	--
MW-203	10/19/04	0.013	< 0.001	0.015	0.0025	<b>1.6</b>	< 0.25	< 0.5	--
MW-203	10/19/04	0.017	< 0.001	0.012	0.0018	<b>1.4</b>	< 0.25	< 0.5	--
MW-203	01/25/05	0.0063	< 0.001	0.011	0.0013	<b>1.6</b>	0.52	0.68	--
MW-203	04/19/05	0.0068	< 0.001	0.0018	< 0.001	0.63	< 0.25	0.55	--
MW-203	07/13/05	0.01	< 0.001	0.0077	< 0.001	0.89	< 0.25	< 0.5	--
MW-203	10/20/05	0.023	0.002	0.021	0.0026	<b>4.2</b>	2.1	1.1	--
MW-203	01/23/06	0.00186	< 0.0005	0.00182	0.00125	0.76	0.565	< 0.943	--
MW-203	04/26/16	0.00694	0.00076	0.00079	<0.003	<b>1.38</b>	0.66	0.625	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	10/13/16	0.023	0.00553	0.00448	0.00652	<b>6.22</b>	7.39	1.34	--
MW-203	04/27/17	0.00502	<0.0005	0.00053	<0.003	<b>1.24</b>	0.507	0.515	--
MW-203	05/20/08	--	--	--	--	0.6	0.32	< 0.5	--
MW-203	11/18/08	--	--	--	--	0.17	< 0.25	< 0.5	--
MW-203	04/08/09	--	--	--	--	< 0.1	0.12	0.11	--
MW-203	11/17/09	--	--	--	--	< 0.1	< 0.1	< 0.1	--
MW-203	04/26/10	--	--	--	--	0.16	0.18	< 0.1	--
MW-203	10/25/10	--	--	--	--	0.92	0.36	< 0.1	--
MW-203	05/23/11	--	--	--	--	0.333	0.0854	0.314	--
MW-203	10/26/11	--	--	--	--	<b>1.38</b>	0.262	0.118	--
MW-203	06/13/12	--	--	--	--	0.459	0.134	0.332	--
MW-203	11/27/12	--	--	--	--	<b>1.05</b>	0.0943 J	< 0.10	--
MW-203	05/15/13	--	--	--	--	0.144 J	< 0.048	< 0.096	--
MW-203	11/06/13	--	--	--	--	0.68	< 0.047	< 0.094	--
MW-203	04/22/14	--	--	--	--	0.164	0.210 J	0.732 J	--
MW-203	11/06/14	--	--	--	--	0.102	0.0933 J	0.168 J	--
MW-203	05/19/15	--	--	--	--	0.285	0.166	0.170 J	--
MW-203	12/09/15	--	--	--	--	< 0.100	0.319	< 0.394	--
MW-203	05/04/16	--	--	--	--	0.575	0.161	0.133 J	--
MW-203	5/5/2016 DUF	--	--	--	--	0.534	0.151	0.134 J	--
MW-203	12/13/16	--	--	--	--	0.203	0.234	0.125 J	--
MW-203	06/14/17	--	--	--	--	0.0898 J	0.212 J	0.172 J	--
MW-203	12/08/17	--	--	--	--	<b>1.56</b>	0.323	< 0.122	--
MW-203	06/14/18	--	--	--	--	0.156	0.152 J	0.167 J	--
MW-203	12/20/18	--	--	--	--	0.107 J	0.806	0.944	--
MW-203	05/16/19	--	--	--	--	0.471	0.185 J	0.159 J	--
MW-203	12/10/19	--	--	--	--	<b>1.74</b>	0.495	0.189 J	--

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**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-203	06/29/20	--	--	--	--	0.256	0.209 J	0.181 J	--
MW-203	12/15/20	--	--	--	--	0.282	<0.229	0.930	--
MW-204	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.6	< 0.5	--
MW-204	01/26/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	6.2	< 1	--
MW-204	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	0.79	--
MW-204	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.076	1.1	0.59	--
MW-204	10/19/05	< 0.001	< 0.001	< 0.001	< 0.001	0.082	0.45	< 0.5	--
MW-204	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	5.53	< 0.952	--
MW-204	04/25/06	<0.0005	<0.0005	<0.0005	<0.003	0.0755	2.51	1.11	--
MW-204	10/12/06	<0.0005	<0.0005	<0.0005	<0.003	0.0634	0.896	0.519	--
MW-204	04/26/07	<0.0005	<0.0005	<0.0005	<0.003	0.0855	1.81	0.749	--
MW-204	10/30/07	--	--	--	--	< 0.05	--	--	--
MW-204	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	0.13	1	< 0.5	--
MW-204	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	3.5	0.16	--
MW-204	10/27/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.29	< 0.1	--
MW-204	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.066	0.599	< 0.20	--
MW-204	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.975	< 0.10	--
MW-204	11/06/13	0.00057 J	< 0.00020	< 0.00020	< 0.00046	0.0762 J	0.28	0.0976 J	--
MW-204	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.505	0.321	--
MW-204	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.579	< 0.388	--
MW-204	12/13/16	0.000187 J	< 0.000312	0.000555 J	< 0.000442	< 0.0178	0.507	0.215	--
MW-204	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.786	0.232 J	--
MW-204	12/19/18	0.000204 J	< 0.000312	< 0.000198	< 0.000442	0.138 J	0.599	0.729	--
MW-204	12/10/19	0.00105	< 0.000312	< 0.000198	< 0.000442	<0.0704	0.238 J	0.128 J	--
MW-204	12/16/20	0.0003 J	0.000245 J-	<0.00020 J	<0.0005 J	<0.250	0.303	0.405	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-206A	01/22/04	< 0.001	< 0.001	< 0.001	0.004	< 0.25	< 0.25	< 0.5	--
MW-206A	04/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-206A	07/27/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	1.8	0.78	--
MW-206A	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2	1.1	--
MW-206A	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.1	2.2	--
MW-206A	04/18/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.3	1.5	--
MW-206A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	1.2	1.9	--
MW-206A	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	2.1	7.9	--
MW-206A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	4.41	2.54	--
MW-206A	11/20/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	2.1	1.7	--
MW-206A	11/19/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.1	< 0.1	--
MW-206A	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	0.18	--
MW-206A	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.141	< 0.20	--
MW-206A	11/27/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.116	0.111 J	--
MW-206A	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.047	< 0.094	--
MW-206A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.236	0.392	--
MW-206A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.242	< 0.403	--
MW-206A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.18	0.135 J	--
MW-206A	12/08/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.258	0.239 J	--
MW-206A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	2.25	3.96	--
MW-206A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.591	0.396	--
MW-206A	12/16/20	< 0.00020	< 0.0002	< 0.00020	< 0.0005	< 0.250	< 0.236	< 0.394	--
MW-213	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-213	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
MW-213	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.34	< 0.5	--
MW-213	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.653	< 0.495	--
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-213	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-213	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-213	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	< 0.050	< 0.049	< 0.098	--
MW-213	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.11	< 0.21	--
MW-213	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
MW-213	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
MW-213	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0625 J	< 0.095	--
MW-213	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0586	< 0.094	--
MW-213	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0782 J	< 0.094	--
MW-213	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.10	--
MW-213	12/09/15	< 0.00020	<0.0010	<0.0010	<0.0030	<0.100	<0.235	<0.392	--
MW-213	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.0415 J	< 0.0593	--
MW-213	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.115 J	< 0.0622	--
MW-213	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.128 J	< 0.123	--
MW-213	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.158 J	< 0.121	--
MW-213	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
MW-213	12/19/18	< 0.0000930	0.000320 J	< 0.000198	< 0.000442	0.0717 J	0.434	0.411	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	05/16/19	< 0.000200	0.000349 J	< 0.000190	< 0.000580	0.0912	0.153 J	< 0.123	--
MW-213	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.147 J	< 0.117	--
MW-213	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-213	12/16/20	<0.00020 J	<0.0002 J	<0.00020 J	<0.0005 J	<0.250	<0.233	<0.388	--
MW-214	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	04/20/04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	< 0.25	< 0.5	--
MW-214	07/28/04	< 0.005	< 0.005	< 0.005	< 0.005	< 1.2	< 0.25	< 0.5	--
MW-214	10/19/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
MW-214	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	0.36	< 0.5	--
MW-214	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.3	< 0.5	--
MW-214	07/12/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.29	< 0.5	--
MW-214	10/20/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	0.33	< 0.5	--
MW-214	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	0.91	< 0.476	--
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.003	--	--	--	--
MW-214	05/05/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.91	< 0.5	--
MW-214	07/10/08	--	--	--	--	--	< 0.5	< 1	--
MW-214	11/19/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.25	0.8	< 0.5	--
MW-214	04/07/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
MW-214	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.11	< 0.1	--
MW-214	04/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.19	< 0.1	--
MW-214	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
MW-214	05/24/11	<0.0003	<0.0005	<0.0003	<0.0007	<0.050	0.127	<0.097	--
MW-214	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.126	< 0.21	--
MW-214	06/12/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	0.135 J	--
MW-214	11/29/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-214	05/15/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0857 J	< 0.096	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	11/05/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0552 J	< 0.094	--
MW-214	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.118	< 0.094	--
MW-214	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.168	0.103	--
MW-214	05/19/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.106	< 0.094	--
MW-214	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	0.248	< 0.392	--
MW-214	05/03/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.100	0.123	< 0.0594	--
MW-214	12/14/16	< 0.0000930	< 0.000312	0.000275 J	< 0.000442	0.0226 J	0.13	< 0.0600	--
MW-214	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.214 J	< 0.121	--
MW-214	12/07/17	< 0.0000930 J	< 0.000312	< 0.000198 J	< 0.000442 J	< 0.0704 J	0.305	< 0.128	--
MW-214	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.170 J	< 0.120	--
MW-214	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.547	0.415	--
MW-214	05/16/19	< 0.000200	0.000303 J	< 0.000190	< 0.000580	< 0.0550	0.213 J	< 0.122	--
MW-214	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.239 J	< 0.121	--
MW-214	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-214	12/16/20	< 0.00020 J	< 0.0002 J	< 0.00020 J	< 0.0005 J	< 0.250	< 0.218	< 0.363	--
MW-301	03/02/12	<b>0.24</b>	0.0138	0.0099	0.0212	<b>3.37</b>	--	--	--
MW-301	09/25/12	<b>0.333</b>	0.0131	0.0186	0.0192	<b>4.02</b>	--	--	--
MW-301	11/28/12	<b>0.241</b>	0.0099	0.0125	0.0106	<b>2.76</b>	--	--	--
MW-301	02/21/13	<b>0.659</b>	0.0175	0.0264	0.0173 J	<b>3.98</b>	0.315	< 0.10	--
MW-301	05/15/13	<b>0.357</b>	0.0122	0.0231	0.0145	<b>3.63</b>	--	--	--
MW-301	11/04/13	<b>0.16</b>	0.0097	0.0164	0.0109	<b>2.29</b>	--	--	--
MW-301	04/23/14	<b>0.252</b>	0.0072	0.0135	0.0075	<b>3.57</b>	--	--	--
MW-301	07/24/14	<b>0.314</b>	0.008	0.0143	0.0096	<b>3.7</b>	0.361	< 0.094	--
MW-301	11/03/14	<b>0.108</b>	0.0043 J	0.0046 J	0.0051 J	<b>1.76</b>	--	--	--
MW-301	03/09/15	<b>0.222</b>	0.0067	0.0065	0.0062 J	<b>2.27</b>	--	--	--
MW-301	05/21/15	<b>0.194</b>	0.0069	0.01	0.0060 J	<b>2.24</b>	--	--	--

**Table 6**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-301	07/28/15	<b>0.116</b>	0.0036	0.0037	0.0019 J	<b>2.09</b>	--	--	--
MW-301	12/10/15	0.0437	0.00351	0.00104	0.00551	<b>1.34</b>	--	--	--
MW-301	02/22/16	<b>0.28</b>	0.00881	0.0104	0.00746	<b>3.65</b>	--	--	--
MW-301	05/02/16	<b>0.17</b>	0.00834	0.0138	0.00663	<b>3.32</b>	--	--	--
MW-301	08/29/16	0.0647	0.00551	0.0103	0.0064	<b>2.9</b>	--	--	--
MW-301	12/12/16	<b>0.251</b>	0.00745	0.0173	0.00633	<b>3</b>	--	--	--
MW-301	03/13/17	<b>0.206</b>	0.00771	0.0117	0.00585	<b>3.02</b>	--	--	--
MW-301	06/13/17	<b>0.111</b>	0.00659 J	0.0128	0.00713 J	<b>2.5</b>	--	--	--
MW-301	08/22/17	0.0652	0.00472	0.0108	0.00366	<b>1.93</b>	--	--	--
MW-301	12/05/17	0.0222	0.00228	0.00217	0.00272 J	<b>1.67</b>	--	--	--
MW-301	03/06/18	<b>0.207</b>	0.00303	0.00542	0.00248 J	<b>1.32</b>	--	--	--
MW-301	06/13/18	0.0132	0.00108	0.00239	0.000821 J	<b>1.27</b>	--	--	--
MW-301	09/06/18	0.00368	0.000585 J	0.000352 J	0.000489 J	<b>1.45</b>	--	--	--
MW-301	12/20/18	0.0175	0.000688 J	0.00259	0.000536 J	0.445	--	--	--
MW-301	03/19/19	<b>0.0999</b>	0.00182	0.00923	0.00182 J	<b>1.34</b>	--	--	--
MW-301	05/16/19	0.00684	< 0.000170	0.000357 J	< 0.000580	0.483	--	--	--
MW-301	09/19/19	0.0000937 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	12/11/19	0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-301	04/28/20	0.0399	0.00115	0.00676	0.000676 J	0.368	--	--	--
MW-301	06/29/20	0.0163	< 0.000312	0.00205	< 0.000442	0.114 J	--	--	--
MW-301	09/21/20	0.00732	< 0.001	0.00127	0.000442 J	0.167	--	--	--
MW-301	12/15/20	0.0416	0.00146	0.0109	0.00117	0.441	--	--	--
MW-301	04/13/21	0.0238	0.00105	0.00767	0.000879	<b>1.69</b>	--	--	--
MW-302	03/01/12	<b>0.831</b>	0.0275	0.213	0.248	<b>5.33</b>	--	--	--
MW-302	06/12/12	<b>0.574</b>	0.0156	0.0183	0.0244	<b>4.18</b>	--	--	--
MW-302	06/28/12	<b>1.23</b>	0.0437	0.403	0.289	<b>5.65</b>	--	--	--

**Table 6**  
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**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	09/25/12	<b>0.657</b>	0.0247	0.18	0.106	<b>4.07</b>	--	--	--
MW-302	11/25/12	<b>0.449</b>	0.0152	0.191	0.177	<b>4.58</b>	--	--	--
MW-302	02/22/13	<b>0.393</b>	0.0149	0.124	0.116	<b>4.15</b>	0.435	< 0.10	--
MW-302	05/14/13	<b>0.873</b>	0.0231	0.236	0.145	<b>4.19</b>	--	--	--
MW-302	09/05/13	<b>0.783</b>	0.0189	0.162	0.0746	<b>3.7</b>	--	--	--
MW-302	11/05/13	<b>0.607</b>	0.0112	0.0977	0.0529	<b>2.69</b>	--	--	--
MW-302	01/16/14	<b>0.404</b>	0.0161	0.0843	0.0504	<b>3.54</b>	--	--	--
MW-302	04/23/14	<b>0.98</b>	0.0269	0.276	0.232	<b>5.86</b>	--	--	--
MW-302	07/24/14	<b>0.656</b>	0.0206	0.178	0.131	<b>4.66</b>	0.363	< 0.094	--
MW-302	11/03/14	<b>0.506</b>	0.0159	0.221	0.176	<b>4.06</b>	0.361	< 0.094	--
MW-302	05/21/15	<b>0.454</b>	0.0161	0.174	0.15	<b>3.44</b>	--	--	< 0.010
MW-302	12/10/15	<b>0.372</b>	0.00853	0.0139	0.0176	<b>2.16</b>	1	< 0.391	--
MW-302	05/04/16	<b>0.595</b>	0.0145	0.27	0.153	<b>3.75</b>	--	--	--
MW-302	12/15/16	<b>0.759</b>	0.0263	0.453	0.117	<b>5.08</b>	1.73	< 0.0630	--
MW-302	06/13/17	<b>0.487</b>	0.0146 J	0.215	0.0524 J	<b>1.98</b>	--	--	--
MW-302	08/23/17	0.047	0.00305	0.00823	0.00647	0.709	--	--	--
MW-302	12/05/17	0.0414	0.00196	0.00271	0.003	<b>1.79</b>	9.96	0.209 J	--
MW-302	03/07/18	0.0707	0.00314	0.043	0.00763	<b>1.61</b>	--	--	--
MW-302	06/13/18	0.0591	0.00363	0.0481	0.0227	1	--	--	--
MW-302	09/06/18	0.0312	0.00138	0.0242	0.00479	0.526	--	--	--
MW-302	12/20/18	0.00121	< 0.000312	0.00431	0.000625 J	0.232	2.5	0.386	--
MW-302	03/19/19	0.0133	0.000823 J	0.0122	0.00433	<b>1.84 J</b>	--	--	--
MW-302	05/16/19	0.0035	0.000363 J	0.00678	0.00177 J	0.578	--	--	--
MW-302	09/19/19	0.0174	0.00115	0.0217	0.00428	0.662	--	--	--
MW-302	12/11/19	0.0132	0.000741 J	0.00976	0.00222 J	0.297	3.69	0.179 J	--
MW-302	04/28/20	0.027	0.00181	0.0397	0.00698	<b>1.23</b>	--	--	--
MW-302	06/30/20	0.0219	0.00152	0.0368	0.00590 J	<b>1.23</b>	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-302	09/21/20	0.00148	<0.001	0.00888	0.00108 J	0.205	--	--	--
MW-302	12/15/20	0.0404 J	0.00282 J-	0.0684 J	0.0117 J-	<b>1.84</b>	<b>10.80</b>	0.529	--
MW-302	04/13/21	0.00616 J-	0.000526 J	0.0178 J-	0.00419 J-	<b>1.85</b>	--	--	--
MW-303	03/02/12	<b>3.13</b>	0.0759	0.76	0.232	<b>12.3</b>	--	--	--
MW-303	06/13/12	<b>2.9</b>	0.0957	0.884	0.268	<b>12.5</b>	--	--	--
MW-303	09/25/12	<b>1.83</b>	0.0635	0.474	0.146	<b>9.14</b>	--	--	--
MW-303	11/28/12	<b>1.94</b>	0.0873	1.18	0.319	<b>12.6</b>	--	--	--
MW-303	02/21/13	<b>2.34</b>	0.0955	1.29	0.338	<b>12.8</b>	0.674	< 0.10	--
MW-303	05/15/13	<b>1.9</b>	0.0864	0.983	0.272	<b>10.6</b>	--	--	--
MW-303	11/04/13	<b>0.884</b>	0.0278	0.219	0.0544	<b>6.11</b>	--	--	--
MW-303	04/23/14	<b>1.58</b>	0.071	1.114	0.224	<b>11.8</b>	--	--	--
MW-303	07/24/14	<b>0.808</b>	0.0471	0.653	0.161	<b>9.76</b>	0.622	< 0.094	--
MW-303	11/04/14	<b>1.42</b>	0.0618	0.924	0.18	<b>11.5</b>	1	1.15	--
MW-303	05/20/15	<b>0.669</b>	0.0432	0.713	0.157	<b>7.9</b>	--	--	--
MW-303	12/08/15	<b>1.19</b>	0.071	1.33	< 0.300	<b>7.6</b>	2.45	< 0.398	--
MW-303	05/04/16	<b>0.704</b>	0.0625	1.82	0.287	<b>8.6</b>	--	--	--
MW-303	12/12/16	<b>0.831</b>	0.0482	1.45	0.176	<b>8.31</b>	2.52	< 0.0602	--
MW-303	06/13/17	<b>0.353</b>	0.0408	1.54	0.19	<b>5.69</b>	--	--	--
MW-303	12/05/17	<b>0.104</b>	0.0116 J	0.3	0.0400 J	<b>4.29</b>	7.49	< 0.125	--
MW-303	03/06/18	0.039	0.0154	0.147 J	0.0352	<b>2.5</b>	--	--	--
MW-303	06/13/18	<b>0.157</b>	0.0151 J	0.39	0.0317 J	<b>2.94 J</b>	--	--	--
MW-303	09/06/18	0.000729	< 0.000312	0.00117	< 0.000442	< 0.0704	--	--	--
MW-303	12/20/18	0.000581	0.000342 J	0.00136	0.00088 J	0.382	8.25	0.505	--
MW-303	03/19/19	0.0346	0.00611	0.194	0.0111	<b>2.48</b>	--	--	--
MW-303	05/16/19	0.0173	0.0017	0.0869	0.00541	<b>1.33</b>	--	--	--
MW-303	09/19/19	0.00776	0.00207	0.0717	0.00326	0.785	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-303	12/11/19	0.00114	0.000373 J	0.0404	0.00134 J	0.371	2.73	0.281 J	--
MW-303	04/28/20	0.00258	< 0.000312	0.00511	0.00705	<b>2.46</b>	--	--	--
MW-303	06/30/20	0.0152	0.000897 J	0.0386	0.00696	<b>2.64</b>	--	--	--
MW-303	09/22/20	0.02	0.00254	0.153	0.00623	<b>1.86</b>	--	--	--
MW-303	12/15/20	0.0150 J-	0.00412 J-	0.119 J-	0.0146 J-	<b>3.34</b>	5.28	<0.389	--
MW-303	04/13/21	0.0135 J-	0.00170 J-	0.0371 J-	0.0104 J-	<b>4.07</b>	--	--	--
MW-304	03/01/12	<b>0.686</b>	0.0351	0.214	0.264	<b>5.64</b>	--	--	--
MW-304	06/12/12	<b>1.04</b>	0.0408	0.27	0.218	<b>5.98</b>	--	--	--
MW-304	09/25/12	<b>0.63</b>	0.024	0.198	0.105	<b>3.93</b>	--	--	--
MW-304	11/28/12	<b>0.411</b>	0.0244	0.306	0.252	<b>5.89</b>	--	--	--
MW-304	02/22/13	<b>0.507</b>	0.0225	0.208	0.149	<b>5.56</b>	0.762	0.186 J	--
MW-304	05/14/13	<b>0.645</b>	0.0283	0.209	0.144	<b>4.73</b>	--	--	--
MW-304	09/05/13	<b>0.862</b>	0.0188	0.0849	0.0616	<b>3.09</b>	--	--	--
MW-304	11/05/13	<b>0.695</b>	0.0163	0.0629	0.054	<b>2.67</b>	--	--	--
MW-304	01/16/14	<b>0.79</b>	0.0194	0.0472	0.0571	<b>4.89</b>	--	--	--
MW-304	04/23/14	<b>0.778</b>	0.0248	0.185	0.147	<b>5.93</b>	--	--	--
MW-304	07/24/14	<b>0.437</b>	0.0173	0.109	0.0666	<b>3.59</b>	0.557	< 0.094	--
MW-304	11/03/14	<b>1.11</b>	0.0421	0.48	0.214	<b>3.32</b>	0.366	< 0.094	--
MW-304	05/20/15	<b>0.486</b>	0.0136	0.115	0.0373	<b>3.3</b>	--	--	< 0.010
MW-304	12/10/15	<b>0.775</b>	0.0312	0.336	0.114	<b>4.37</b>	1.55	< 0.387	--
MW-304	05/04/16	<b>0.527</b>	0.0187	0.355	0.0559	<b>4.05</b>	--	--	--
MW-304	12/15/16	<b>0.749</b>	0.0271	0.586	0.0664	<b>5.75</b>	1.78	0.0686 J	--
MW-304	06/13/17	<b>0.209</b>	0.0113	0.413	0.0246 J	<b>2.2</b>	--	--	--
MW-304	08/23/17	0.021	0.00437	0.0124	0.00494	0.566	--	--	--
MW-304	12/05/17	0.000217 J	< 0.000312	< 0.000494 J	0.00118 J	0.291	3.2	< 0.122	--
MW-304	03/06/18	0.000493	< 0.000312	0.000337 J	< 0.000442	0.562	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-304	06/13/18	0.00107	< 0.000312	0.00561	0.00104 J	0.425	--	--	--
MW-304	09/06/18	0.000535	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/20/18	< 0.000093	< 0.000312	< 0.000198	< 0.000442	< 0.0704	1.5	0.219 J	--
MW-304	03/19/19	0.000448	< 0.000312	0.000514 J	< 0.000442	0.105 J	--	--	--
MW-304	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	< 0.055	--	--	--
MW-304	09/19/19	0.000242 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-304	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.188 J	0.120 U	--
MW-304	04/28/20	0.00171	< 0.000312	0.000281 J	< 0.000442	0.113 J	--	--	--
MW-304	06/30/20	0.0399	0.000627 J	0.000544 J	< 0.000442	0.131 J	--	--	--
MW-304	09/21/20	0.0623	0.000391 J	0.00109	0.000491 J	0.191	--	--	--
MW-304	12/15/20	0.0363	0.000932	0.00188	0.000883	0.26	4.22	<0.393	--
<b>MW-304</b>	<b>04/13/21</b>	<b>0.00194</b>	<b>&lt;0.000200</b>	<b>0.00107 J+</b>	<b>&lt;0.000500</b>	<b>0.307</b>	--	--	--
MW-305	03/01/12	<b>1.14</b>	0.0227	0.0389	0.0375 J	<b>5.84</b>	--	--	--
MW-305	06/11/12	<b>1.34</b>	0.0221	0.0517	0.0331 J	<b>5.97</b>	--	--	--
MW-305	09/26/12	<b>1.27</b>	0.0229	0.0388	0.0355 J	<b>5.89</b>	--	--	--
MW-305	11/28/12	<b>0.286</b>	0.0061	0.0032 J	0.014	<b>1.53</b>	--	--	--
MW-305	05/15/13	<b>0.397</b>	0.0263	0.29	0.0867	<b>6.28</b>	--	--	--
MW-305	11/07/13	<b>0.0844</b>	0.025	0.216	0.0919	<b>3.59</b>	--	--	--
MW-305	04/23/14	<b>0.0884</b>	0.0139	0.0941	0.0454	<b>2.82</b>	--	--	--
MW-305	11/06/14	0.0419	0.0052	0.002	0.0306	<b>1.16</b>	--	--	--
MW-305	05/21/15	<b>0.12</b>	0.0101	0.191	0.108	<b>2.81</b>	--	--	--
MW-306	03/01/12	<b>0.606</b>	0.015	0.0353	0.718	<b>4.74</b>	--	--	--
MW-306	06/11/12	<b>0.393</b>	0.0115	0.0509	0.763	<b>5.09</b>	--	--	--
MW-306	09/26/12	<b>1.05</b>	0.0261	0.135	0.147	<b>6.56</b>	--	--	--
MW-306	11/28/12	<b>0.393</b>	0.0125	0.0183	0.0895	<b>3.06</b>	--	--	--

**Table 6**  
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**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-306	05/15/13	<b>0.746</b>	0.0472	0.837	3.7	<b>18.5</b>	--	--	--
MW-306	11/07/13	<b>0.101</b>	0.0502	0.482	2.65	<b>12.8</b>	--	--	--
MW-306	04/23/14	<b>0.0762</b>	0.0345	0.325	1.97	<b>11</b>	--	--	--
MW-306	11/06/14	<b>0.119</b>	0.0226	0.302 J	0.939 J	<b>5.59</b>	--	--	--
MW-306	05/21/15	<b>0.106</b>	0.0354 J	0.874	5.15	<b>20.6</b>	--	--	--
MW-307	11/26/12	<b>2.15</b>	0.0858	0.833	0.513	<b>10.9</b>	--	--	--
MW-307	02/22/13	<b>0.497</b>	0.0358	0.226	0.145	<b>6.02</b>	0.604	< 0.094	--
MW-307	05/15/13	<b>0.437</b>	0.0461	0.167	0.12	<b>4.56</b>	--	--	--
MW-307	09/05/13	<b>0.643</b>	0.0645	0.154	0.131	<b>5.3</b>	--	--	--
MW-307	11/06/13	<b>0.568</b>	0.0448 J	0.104	0.0912	<b>4.39</b>	--	--	--
MW-307	04/22/14	<b>0.52</b>	0.0408	0.241	0.152	<b>5.68</b>	--	--	--
MW-307	11/04/14	<b>0.596</b>	0.039	0.176	0.095	<b>5.16</b>	0.632	< 0.095	--
MW-307	03/09/15	<b>0.444</b>	0.0358	0.271	0.104	<b>5.41</b>	--	--	--
MW-307	05/19/15	<b>0.306</b>	0.0273	0.14	0.0673	<b>3.44</b>	0.479	< 0.096	--
MW-307	07/29/15	<b>0.298</b>	0.0245	0.109	0.0434	<b>4.09</b>	--	--	--
MW-307	12/09/15	<b>0.699</b>	0.0585	0.334	0.131	<b>5.03</b>	1.63	< 0.392	--
MW-307	02/23/16	<b>0.498</b>	0.0417	0.578	0.110 J	<b>4.98</b>	--	--	--
MW-307	05/03/16	<b>0.469</b>	0.0338	0.456	0.0981	<b>5.04</b>	1.55	< 0.0597	--
MW-307	08/30/16	<b>0.261</b>	0.0299	0.222	0.195	<b>5.13</b>	--	--	--
MW-307	12/13/16	<b>0.275</b>	0.0255	0.302	0.102	<b>4.02</b>	1.34	0.0812 J	--
MW-307	03/14/17	<b>0.418</b>	0.0311	0.54	0.136	<b>6.33</b>	--	--	--
MW-307	06/15/17	<b>0.166</b>	0.0242	0.283	0.194 J	<b>4.18</b>	1.32	< 0.121	--
MW-307	08/23/17	<b>0.102 J</b>	0.0162	0.095	0.0912	<b>3.22</b>	1.33	< 0.126	--
MW-307	12/06/17	0.0501	0.00663	0.0479	0.0134	0.977	1.04	< 0.128	--
MW-307	03/08/18	<b>0.15</b>	0.0158	0.134	0.0255	<b>2.09</b>	--	--	--
MW-307	06/14/18	<b>0.243</b>	0.0256	0.315	0.0329	<b>2.71</b>	1.45	< 0.120	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-307	09/05/18	0.0507	0.00339	0.016	0.00343	<b>1.45</b>	--	--	--
MW-307	12/19/18	0.027	0.000413 J	0.0119	0.00153 J	<b>1.17</b>	1.79	0.396 J	--
MW-307	03/18/19	0.0587	0.00269	0.05	0.00393	0.965	--	--	--
MW-307	05/16/19	0.0324	0.00693	0.026	0.0113	<b>2.47</b>	2.74	0.265 J	--
MW-307	09/19/19	0.0126	< 0.000312	0.00135	< 0.000442	0.444	--	--	--
MW-307	12/10/19	0.00497	< 0.000312	0.000291 J	< 0.000442	0.28	0.66	< 0.118	--
MW-307	04/27/20	<b>0.0974</b>	0.00608	0.159	0.0267	<b>1.45</b>	--	--	--
MW-307	06/29/20	<b>0.0946</b>	0.00479	0.0909	0.0164	<b>1.18</b>	7.11	0.273 J	--
MW-307	09/21/20	<b>0.21</b>	0.0102	0.156	0.0516	<b>2.01</b>	--	--	--
MW-307	12/16/20	<b>0.106 J-</b>	0.0072 J-	0.0622 J	0.0336 J-	<b>1.52</b>	7.75	<0.379	--
MW-307	04/12/21	<b>0.133 J</b>	0.0228 J-	0.0930 J	0.0950 J	<b>4.06 J+</b>	--	--	--
MW-308	11/26/12	<b>0.144</b>	0.0010 J	0.0072	0.0013 J	0.778	--	--	--
MW-308	02/22/13	<b>0.668</b>	0.0078 J	0.0443	0.0059 J	<b>3.48</b>	0.354	< 0.10	--
MW-308	05/15/13	<b>0.392</b>	0.0052 J	0.0427	< 0.0046	<b>2.54</b>	--	--	--
MW-308	11/06/13	<b>0.237</b>	0.0033 J	0.0056	0.0026 J	<b>1.65</b>	--	--	--
MW-308	04/22/14	0.0165	< 0.00020	0.00036 J	< 0.00046	0.146	--	--	--
MW-308	11/04/14	<b>0.132</b>	0.0012	0.0044	0.00058	0.782	< 0.048	< 0.095	--
MW-308	03/09/15	<b>0.121 J</b>	0.002	0.00064 J	0.0013 J	<b>1.1</b>	--	--	--
MW-308	05/19/15	<b>0.213</b>	0.0013 J	< 0.00050	< 0.0012	0.973	--	--	--
MW-308	07/29/15	<b>0.242</b>	0.0017 J	0.0014 J	< 0.0012	<b>1.77</b>	--	--	--
MW-308	12/09/15	<b>0.146</b>	0.00361	0.0284	0.00527	<b>1.19</b>	--	--	--
MW-308	02/23/16	0.00711	< 0.0000380	0.000101 J	< 0.0000160	0.0619	--	--	--
MW-308	05/03/16	<b>0.281</b>	0.000903 J	0.00376	0.000680 J	<b>1.41</b>	--	--	--
MW-308	08/30/16	<b>0.196</b>	< 0.00312	< 0.00198	< 0.00162	<b>1.48</b>	--	--	--
MW-308	12/13/16	0.0309	< 0.000312	0.000529 J	< 0.000442	0.207	--	--	--
MW-308	03/14/17	0.000861	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-308	06/15/17	<b>0.383</b>	0.00147	0.00107	0.000477 J	<b>1.28</b>	--	--	--
MW-308	08/23/17	<b>0.234</b>	< 0.00312	< 0.00198	< 0.00442	0.812 J	--	--	--
MW-308	12/06/17	<b>0.085</b>	< 0.000312	0.000717 J	< 0.000442	0.245	--	--	--
MW-308	03/08/18	<b>0.252</b>	0.000314 J	< 0.000198	< 0.000442	0.55	--	--	--
MW-308	06/14/18	<b>0.238</b>	0.000765 J	0.00226	< 0.000442	0.487	--	--	--
MW-308	09/05/18	0.00741	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	03/18/19	0.000815	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	05/16/19	0.00703	< 0.000170	< 0.000190	< 0.000580	0.397	--	--	--
MW-308	09/19/19	0.0096	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	12/09/19	0.000322 J	< 0.000312	< 0.000198	< 0.000442	0.118 J	--	--	--
MW-308	04/27/20	0.00314	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-308	06/29/20	0.00406	< 0.000312	0.000292 J	< 0.000442	0.140 J	--	--	--
MW-308	09/21/20	0.0175	0.00145	<0.001	<0.003	0.185	--	--	--
MW-308	12/16/20	<b>0.0730 J</b>	0.0954 J	0.026 J	0.0417 J	0.30	--	--	--
MW-308	04/12/21	0.0365 J+	0.000521 J+	0.000515 J+	<0.000500	0.267	--	--	--
MW-309	11/28/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	02/21/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0790 J	< 0.10	--
MW-309	05/16/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	04/23/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-309	07/24/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.102	< 0.094	--
MW-309	11/03/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
MW-309	05/20/15	< 0.00020	< 0.00020	0.00027 J	< 0.00046	0.0542 J	--	--	--
MW-309	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.241	< 0.402	--
MW-309	05/04/16	< 0.0000930	< 0.000312	0.000337 J	< 0.000162	< 0.100	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-309	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0834 J	< 0.0595	--
MW-309	06/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/05/17	0.000184 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.0877 J	< 0.128	--
MW-309	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-309	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.220 J	< 0.118	--
MW-309	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.3	--	--	--
MW-309	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0804 J	0.614	< 0.120	--
MW-309	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.123 J	--	--	--
MW-309	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.292	<0.390	--
MW-310	11/28/12	<b>0.86</b>	0.0265	0.211	0.147	<b>5.74</b>	--	--	--
MW-310	02/21/13	<b>1.8</b>	0.0768	0.506	0.18	<b>8.37</b>	0.603	< 0.10	--
MW-310	05/14/13	<b>0.993</b>	0.0703	0.654	0.175	<b>6.49</b>	--	--	--
MW-310	09/05/13	<b>0.96</b>	0.0598	0.31	0.11	<b>5.51</b>	--	--	--
MW-310	11/05/13	<b>0.772</b>	0.0409	0.226	0.0846	<b>4.92</b>	--	--	--
MW-310	01/16/14	<b>0.821</b>	0.0414	0.189	0.0775	<b>5.94</b>	--	--	< 0.001 <sup>1</sup>
MW-310	04/23/14	<b>0.796</b>	0.0432	0.187	0.0607	<b>5.88</b>	--	--	--
MW-310	07/24/14	<b>0.92</b>	0.0489	0.368	0.0647	<b>6.36</b>	0.605	< 0.094	--
MW-310	11/04/14	<b>0.739</b>	0.0387	0.132	0.0538	<b>5.15</b>	0.613	< 0.094	--
MW-310	03/09/15	<b>0.736</b>	0.0475	0.189	0.0606	<b>4.71</b>	--	--	--
MW-310	05/21/15	<b>0.641</b>	0.0464	0.169	0.0572	<b>4.39</b>	--	--	< 0.010
MW-310	07/28/15	<b>0.714</b>	0.0428	0.181	0.0488	<b>3.72</b>	--	--	--
MW-310	12/10/15	<b>0.405</b>	0.0396	0.0771	0.0564	<b>3.89</b>	2.75	< 0.390	--
MW-310	02/23/16	<b>0.755</b>	0.0436	0.303	0.0615	<b>4.86</b>	--	--	--
MW-310	05/02/16	<b>0.655</b>	0.0349	0.324	0.0721	<b>4.82</b>	--	--	--
MW-310	08/29/16	<b>0.734</b>	0.0608	0.209	0.0885	<b>5.38</b>	--	--	--
MW-310	12/15/16	<b>0.673</b>	0.0504	0.289	0.0747	<b>5.92</b>	1.72	< 0.0624	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-310	03/13/17	<b>0.809</b>	0.0541	0.387	0.0848	<b>5.58</b>	--	--	--
MW-310	06/15/17	<b>0.984</b>	0.0504	0.318	0.0635	<b>4.29</b>	--	--	--
MW-310	08/22/17	0.0562	0.0135	0.0416	0.0297	<b>2.17</b>	--	--	--
MW-310	12/05/17	0.00444	0.000430 J	0.0122	0.0172	0.459	1.66	< 0.122	--
MW-310	03/06/18	0.0293	< 0.000312	0.00108	0.00167 J	0.724	--	--	--
MW-310	06/13/18	0.0448	0.00103	0.0098	0.00308	0.748	--	--	--
MW-310	09/06/18	0.0182	0.000905 J	< 0.000198	0.000637 J	0.284	--	--	--
MW-310	12/20/18	0.00126	< 0.000312	< 0.000198	< 0.000442	0.0782 J	0.652	0.126 J	--
MW-310	03/19/19	0.00127	< 0.000312	0.000226 J	< 0.000442	0.297	--	--	--
MW-310	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.24	--	--	--
MW-310	09/19/19	0.000104 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-310	12/11/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0739 J	0.453	< 0.120	--
MW-310	04/28/20	0.00595	< 0.000312	0.000357 J	< 0.000442	0.579	--	--	--
MW-310	06/30/20	0.00523	< 0.000312	0.000481 J	< 0.000442	0.669 J	--	--	--
MW-310	09/21/20	0.00903	<0.001	0.000681 J	<0.003	0.427	--	--	--
MW-310	12/15/20	0.00622	<0.0002	0.00156	<0.0005	0.726	8.62	0.508	--
MW-310	04/12/21	0.0221 J-	0.000414 J	0.00269 J-	0.000570 J-	<b>1.61</b>	--	--	--
MW-311	11/05/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	< 0.010
MW-311	03/09/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	06/11/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--
MW-311	12/10/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	--	--	--
MW-311	02/23/16	< 0.0000320	< 0.0000380	< 0.0000860	< 0.0000160	< 0.0178	--	--	--
MW-311	05/04/16	0.000716	< 0.000312	< 0.000198	< 0.000162	0.0260 J	--	--	--
MW-311	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	< 0.0178	--	--	--
MW-311	12/15/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-311	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/15/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/08/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	--	--	--
MW-311	03/18/19	0.000107 J	0.000409 J	< 0.000198	< 0.000442	0.3	--	--	--
MW-311	05/16/19	0.000237 J	0.000976 J	< 0.000190	< 0.000580	0.618	--	--	--
MW-311	09/19/19	0.000211 J	< 0.000312	< 0.000198	< 0.000442	0.461	--	--	--
MW-311	12/12/19	< 0.0000930	< 0.000312	0.000290 J	0.000839 J	0.751	--	--	--
MW-311	04/27/20	0.000221 J	0.00104	0.000292 J	0.000654 J	0.919	--	--	--
MW-311	06/30/20	0.000252 J	0.000799 J	0.000361 J	0.000883 J	<b>1.41 J</b>	--	--	--
MW-311	09/22/20	0.000313 J	0.00122	0.000351 J	0.000558 J	0.894	--	--	--
MW-311	12/15/20	0.000211	0.000865	0.000386	0.000641	<b>1.66 J+</b>	--	--	--
MW-311	04/13/21	<0.000200	0.00102	0.000247	<0.000500	<b>1.32</b>	--	--	--
MW-312	11/05/14	<b>0.239</b>	0.0058	0.0065	0.0102	<b>1.64</b>	1.13	0.132 J	< 0.010
MW-312	03/09/15	<b>0.357</b>	0.0044 J	0.0086	0.0050 J	<b>1.91</b>	--	--	--
MW-312	06/11/15	<b>0.204</b>	0.0034 J	0.0023 J	0.0027 J	<b>1.35</b>	--	--	--
MW-312	07/28/15	<b>0.313</b>	0.0041 J	0.0030 J	0.0032 J	<b>1.65</b>	--	--	--
MW-312	12/10/15	<b>0.0718</b>	0.00333	0.00222	0.00461	<b>1.26</b>	--	--	--
MW-312	02/23/16	<b>0.327</b>	0.00354	0.00759	0.00416	<b>1.96</b>	--	--	--
MW-312	05/04/16	<b>0.414</b>	0.00399	0.00662	0.00376	<b>2.22</b>	--	--	--
MW-312	08/29/16	<b>0.37</b>	0.00457 J	0.00354 J	0.00394 J	<b>2.3</b>	--	--	--
MW-312	12/15/16	<b>0.356</b>	0.00336 J	0.00556 J	< 0.000442	<b>2.27</b>	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
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**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-312	03/13/17	<b>0.35</b>	0.00362	0.00527	0.00375	<b>2.07</b>	--	--	--
MW-312	06/15/17	<b>0.383</b>	0.00372	0.00425	0.00368 J	<b>1.89</b>	--	--	--
MW-312	08/23/17	<b>0.33</b>	0.00395	0.00279	0.00422	<b>2.02</b>	--	--	--
MW-312	12/07/17	<b>0.241</b>	0.00441	0.00223	0.00708	<b>1.72</b>	--	--	--
MW-312	03/08/18	<b>0.261</b>	0.00273 J	0.00260 J	0.00311 J	<b>1.77</b>	--	--	--
MW-312	06/13/18	<b>0.284</b>	0.0044	0.00243	0.0048	<b>1.69</b>	--	--	--
MW-312	09/05/18	<b>0.283</b>	0.00405	0.00306	0.0041	<b>2.06</b>	--	--	--
MW-312	12/20/18	<b>0.126</b>	0.00284	0.00231	0.00361	<b>1.44</b>	--	--	--
MW-312	03/19/19	<b>0.183</b>	0.00372	0.00472	0.00447	<b>2.07</b>	--	--	--
MW-312	05/16/19	<b>0.189</b>	0.00286	0.00353	0.00290 J	<b>2.5</b>	--	--	--
MW-312	09/19/19	<b>0.0928</b>	0.00233	0.00307	0.00220 J	<b>1.64</b>	--	--	--
MW-312	12/12/19	<b>0.094</b>	0.00251	0.00341	0.00275 J	<b>1.7</b>	--	--	--
MW-312	04/28/20	<b>0.0721</b>	0.00213	0.00315	0.00274 J	<b>1.66</b>	--	--	--
MW-312	06/30/20	<b>0.0792</b>	0.00238	0.00406	0.00208 J	<b>1.47</b>	--	--	--
MW-312	09/22/20	<b>0.176</b>	0.00286	0.0068	0.00295 J	<b>2.69</b>	--	--	--
MW-312	12/15/20	0.0498	0.00251	0.00437	0.00284	<b>2.56 J+</b>	--	--	--
MW-312	04/13/21	<b>0.121</b>	0.00244	0.00453	0.00219	--	--	--	--
MW-313	08/29/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	<0.0178	0.218	< 0.0603	--
MW-313	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.100	0.207	< 0.0598	--
MW-313	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.146 J	< 0.121	--
MW-313	06/15/17	< 0.0000930	< 0.000312	< 0.000198	0.000463 J	< 0.0704	0.165 J	< 0.122	--
MW-313	08/22/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.222 J	< 0.121	--
MW-313	12/07/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.153 J	< 0.120	--
MW-313	03/07/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.120	< 0.131	--
MW-313	06/13/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.139 J	< 0.123	--
MW-313	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.362	0.255 J	--

**Table 6**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-313	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.468	0.327 J	--
MW-313	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.174 J	< 0.117	--
MW-313	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.0807	0.207 J	0.164 J	--
MW-313	09/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.237	< 0.114	--
MW-313	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.473	0.153 J	--
MW-313	04/27/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.149 J	< 0.122	--
MW-313	06/30/20	0.000136 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.260	< 0.116	--
MW-313	09/22/20	<0.0004	<0.001	<0.001	<0.003	<0.150	0.309	<0.408	--
MW-313	12/15/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	0.288	<0.388	--
MW-313	04/13/21	<0.000200	<0.000200	<0.000200	<0.000500	<0.25	0.272	<0.35	--
MW-314	08/30/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000162	0.182	0.293	< 0.0599	--
MW-314	12/14/16	0.00432	0.000374 J	< 0.000198	< 0.000442	0.298	0.401	0.0679 J	--
MW-314	03/13/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.0891 J	0.245	<0.120	--
MW-314	06/14/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.227 J	< 0.122	--
MW-314	08/23/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.136 J	0.283	< 0.124	--
MW-314	12/06/17	0.000153 J	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.285	< 0.122	--
MW-314	03/07/18	0.00726	< 0.000312	< 0.000198	< 0.000442	0.131 J	0.336	< 0.127	--
MW-314	06/12/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.121 J	0.46	< 0.121	--
MW-314	09/05/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.203	0.825	0.501	--
MW-314	12/20/18	0.000564	0.000600 J	< 0.000198	< 0.000442	0.138 J	0.788	0.471	--
MW-314	03/19/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.157	0.608	0.139 J	--
MW-314	05/16/19	< 0.000200	< 0.000170	< 0.000190	< 0.000580	0.201	2.09	0.248 J	--
MW-314	12/10/19	< 0.000105 J	0.000400 J	< 0.000198	< 0.000442	0.26	1.44	0.178 J	--
MW-314	04/28/20	0.000578	< 0.000312	< 0.000198	< 0.000442	0.283	2.36	0.186 J	--
MW-314	06/29/20	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	0.147 J	2.57	0.214 J	--
MW-314	09/22/20	0.00584	0.000903 J	<0.001	0.000807 J	0.345	1.60	0.155 J	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071 mg/L	200 mg/L	29 mg/L	NE mg/L	1 mg/L	10 mg/L	10 mg/L	0.0058 mg/L
MW-314	12/15/20	0.0146	0.00182	0.00036	0.00186	0.578	1.84	<0.379	--
MW-314	04/13/21	<0.000200	0.000391 J+	<0.000200	<0.000500	0.363	2.75	0.745	--
MW-315	08/29/16	<b>0.0965</b>	0.00265	0.000548 J	0.00135 J	0.453	1.55	< 0.0600	--
MW-315	12/12/16	0.0174	0.00361	0.0023	0.00408	<b>1.17</b>	1.29	0.0871 J	--
MW-315	03/13/17	0.0295	0.00478	0.00153	0.00793	<b>1.24</b>	1.64	< 0.121	--
MW-315	06/15/17	<b>0.0804</b>	0.00426	0.000634 J	0.00965	<b>1.2</b>	2.95	< 0.122	--
MW-315	08/23/17	<b>0.0727</b>	0.00403	0.000909 J	0.00871	<b>1.71</b>	2.74	< 0.123	--
MW-315	12/07/17	0.00479	0.00377	0.000382 J	0.00756	<b>1.19</b>	2.21	< 0.121	--
MW-315	03/08/18	0.0435	0.00411	0.000736 J	0.00712	<b>1.39</b>	1.15	< 0.125	--
MW-315	06/13/18	0.0619	0.00529	0.000648 J	0.00762	<b>1.19</b>	1.78	< 0.120	--
MW-315	09/05/18	0.0178	0.00461	0.000476 J	0.00904	<b>1.33</b>	2.89	0.267 J	--
MW-315	12/20/18	0.00283	0.00464	0.000599 J	0.0106	<b>1.16</b>	3.06	0.310 J	--
MW-315	03/18/19	0.0233	0.00363	0.000959 J	0.0039	<b>1.4</b>	1.89	0.149 J	--
MW-315	05/16/19	0.0565	0.00393	0.000584 J	0.00399	<b>2.16</b>	2.38	0.179 J	--
MW-315	09/19/19	0.0361	0.0036	0.000542 J	0.00353	<b>1.29</b>	2.61	0.133 J	--
MW-315	12/12/19	0.00334	0.00389	0.000667 J	0.005	<b>1.68</b>	3.96	0.266 J	--
MW-315	04/27/20	0.051	0.00406	0.000695 J	0.00368	<b>1.66</b>	2.81	0.126 J	--
MW-315	06/30/20	0.0699	0.00574	0.000878 J	0.00413	<b>1.82</b>	2.74	0.155 J	--
MW-315	09/22/20	0.0297	0.00383	0.000625 J	0.00266 J	<b>1.78</b>	2.89	0.171 J	--
MW-315	12/15/20	0.0028	0.0044	0.000673	0.00368	<b>2.26 J+</b>	3.34	<0.385	--
MW-315	04/13/21	0.0666 J	0.00493	0.00141	0.00256	<b>2.9 J+</b>	5.04	0.691	--
SH-04	01/13/04	<b>1.2</b>	0.21	0.14	2.11	<b>15</b>	4.7	< 2.5	--
SH-04	04/20/04	<b>1.5</b>	0.49	0.64	5.79	<b>26</b>	6.2	< 10	--
SH-04	07/27/04	<b>1.3</b>	0.13	0.55	1.78	<b>15</b>	5.4	0.53	--
SH-04	04/20/05	<b>0.98</b>	0.061	0.36	1.07	<b>11</b>	4.2	< 1.5	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	04/25/06	<b>1.25</b>	0.089	0.65	2.31	<b>20</b>	8.23	2.52	--
SH-04	10/30/07	<b>0.884</b>	0.0315	0.315	0.0814	<5.0	--	--	--
SH-04	05/20/08	<b>1.1</b>	0.048	0.52	0.657	<b>8.9</b>	4.8	0.92	--
SH-04	11/20/08	<b>0.79</b>	0.032	0.23	0.0384	<b>6.6</b>	2.7	< 0.5	--
SH-04	04/08/09	<b>0.87</b>	0.04	0.25	0.19	<b>9.2</b>	4.7	< 0.1	--
SH-04	11/16/09	<b>0.48</b>	0.023	0.068	0.016	<b>4.9</b>	3.7	< 0.1	--
SH-04	04/27/10	<b>0.71</b>	0.027	0.27	0.13	<b>7.3</b>	4.7	0.39	--
SH-04	10/25/10	<b>0.58</b>	0.019	0.18	0.013	<b>4</b>	2.8	< 0.1	--
SH-04	05/23/11	<b>0.655</b>	0.0145	0.151	0.034	<b>5.4</b>	1.84	0.13	--
SH-04	10/27/11	<b>0.393</b>	0.02	0.0926	0.0279	<b>5.35</b>	1.22	< 0.19	--
SH-04	03/01/12	<b>0.614</b>	0.0227	0.0932	0.0124 J	<b>5.53</b>	--	--	--
SH-04	06/11/12	<b>0.426</b>	0.0142	0.112	0.0198 J	<b>6</b>	1.49	0.393	--
SH-04	09/25/12	<b>0.124</b>	0.0184	0.461	0.139	<b>6.52</b>	--	--	--
SH-04	11/25/12	<b>0.073</b>	0.0079 J	0.609	0.326	<b>8.15</b>	0.762	< 0.098	--
SH-04	05/15/13	0.0016 J	0.0005	0.0042	0.0032 J	<b>2.16</b>	0.376	< 0.096	--
SH-04	11/04/13	0.0032	0.00043 J	0.0071	0.005	<b>1.05</b>	0.134	< 0.094	--
SH-04	04/24/14	0.0091	0.00053 J	0.00090 J	0.0014 J	0.938	0.469	0.0944 J	--
SH-04	11/06/14	0.0249	0.0023	0.0173	0.0072	0.984	0.608	< 0.094	--
SH-04	05/21/15	0.0094	0.00048 J	0.0035	0.0021	0.78	0.171	< 0.094	--
SH-04	12/08/15	0.0155	0.00118	0.00359	0.00409	0.927	1.74	0.422	--
SH-04	05/05/16	0.000454	< 0.000312	0.000939 J	0.000887 J	0.941	0.23	< 0.0601	--
SH-04	12/14/16	0.00534	0.000990 J	0.0199	0.0123	0.843	1	0.102 J	--
SH-04	06/14/17	0.00158	0.000468 J	0.00192	0.00208 J	0.702	0.242 J	0.138 J	--
SH-04	12/07/17	0.00934	0.0015	0.00205	0.00351	0.796	1.78	< 0.136	--
SH-04	06/13/18	0.0052	0.000593 J	0.0042	0.00212 J	0.724	0.187 J	< 0.123	--
SH-04	12/19/18	0.0118	0.00195	0.0125	0.00477	0.804	0.954	0.210 J	--
SH-04	05/16/19	0.00169	0.000346 J	0.00225	0.00227 J	<b>1.35</b>	0.582	0.174 J	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
SH-04	12/11/19	0.012	0.00186	0.00139	0.00342	0.0805	1.26	< 0.121	--
SH-04	06/30/20	0.00239	0.000477 J	0.00124	0.00123 J	0.379	0.256	< 0.119	--
SH-04	12/14/20	0.0118	0.00164	0.00587	0.00262	0.359	2.78	0.472	--
TES-MW-1	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0067	< 0.001	0.011	0.043	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/20/04	0.0075	< 0.001	0.013	0.049	< 0.25	< 0.25	< 0.5	--
TES-MW-1	07/28/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	01/25/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	< 0.25	< 0.5	--
TES-MW-1	04/19/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.05	< 0.25	< 0.5	--
TES-MW-1	07/13/05	0.001	< 0.001	0.006	0.0189	0.1	< 0.25	< 0.5	--
TES-MW-1	10/20/05	0.0039	< 0.001	0.013	0.0437	0.23	< 0.25	< 0.5	--
TES-MW-1	01/27/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	< 0.05	< 0.240	< 0.481	--
TES-MW-1	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	< 0.25	< 0.5	--
TES-MW-1	11/18/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
TES-MW-1	10/26/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	< 0.1	< 0.1	--
TES-MW-1	05/24/11	< 0.0003	< 0.0005	< 0.0003	< 0.0007	< 0.050	--	--	--
TES-MW-1	10/27/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	< 0.10	< 0.20	--
TES-MW-1	11/26/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.050	< 0.10	--
TES-MW-1	11/06/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	11/04/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.095	--
TES-MW-1	12/09/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.234	< 0.390	--
TES-MW-1	12/13/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	< 0.0466	< 0.0699	--
TES-MW-1	12/06/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0816	< 0.122	--
TES-MW-1	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.106	< 0.116	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TES-MW-1	12/09/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.111	< 0.121	--
TES-MW-1	12/16/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.238	<0.397	--
TX-03A	01/13/04	<b>2.9</b>	0.018	0.038	0.091	<b>2.7</b>	0.86	< 0.5	--
TX-03A	04/19/04	<b>4.4</b>	0.047	0.12	0.11	<b>12</b>	1.3	< 0.5	--
TX-03A	07/27/04	<b>1.7</b>	0.011	0.016	0.037	<b>5.2</b>	0.81	< 0.5	--
TX-03A	10/18/04	<b>3.2</b>	0.024	0.062	0.093	<b>7.5</b>	1.2	< 0.5	--
TX-03A	01/24/05	<b>2.5</b>	0.02	< 0.01	0.065	<b>8.2</b>	0.54	< 0.5	--
TX-03A	04/19/05	<b>2.5</b>	0.021	0.026	0.049	<b>6.1</b>	0.47	< 0.5	--
TX-03A	07/12/05	<b>3.1</b>	0.024	0.044	0.054	<b>10</b>	0.32	< 0.5	--
TX-03A	10/31/07	<b>2.2</b>	0.0233	0.0601	0.0503	<5.0	--	--	--
TX-03A	05/20/08	<b>0.88</b>	0.007	0.016	0.01	<b>3</b>	--	--	--
TX-03A	11/20/08	<b>2.1</b>	0.019	0.038	0.018	<b>4.5</b>	--	--	--
TX-03A	04/08/09	<b>1.2</b>	< 0.025	0.028	< 0.025	<b>3.5</b>	--	--	--
TX-03A	11/17/09	<b>0.97</b>	0.0078	0.016	0.011	<b>2.4</b>	--	--	--
TX-03A	04/27/10	<b>1.7</b>	0.0096	0.0087	0.0099	<b>4.6</b>	--	--	--
TX-03A	10/25/10	<b>1.7</b>	0.011	0.067	0.013	<b>3.3</b>	--	--	--
TX-03A	05/23/11	<b>1.78</b>	<0.025	0.044	<0.035	<b>7.53</b>	--	--	--
TX-03A	10/27/11	<b>3.44</b>	0.0712	0.147	0.111	<b>8.51</b>	--	--	--
TX-03A	03/01/12	<b>1.74</b>	0.0261	0.0272	0.0345 J	<b>5.58</b>	--	--	--
TX-03A	06/12/12	<b>1.57</b>	0.0200 J	0.0139 J	0.0300 J	<b>6.78</b>	--	--	--
TX-03A	09/25/12	<b>1.7</b>	0.0298	0.041	0.0501	<b>5.53</b>	--	--	--
TX-03A	11/28/12	<b>1.18</b>	0.0188 J	0.0232	0.0357 J	<b>4.91</b>	--	--	--
TX-03A	02/21/13	<b>2.81</b>	0.0403	0.0421	0.0489 J	<b>8.2</b>	0.32	< 0.10	--
TX-03A	05/15/13	<b>2.15</b>	0.0459 J	0.189	0.0643 J	<b>3.11</b>	--	--	--
TX-03A	11/05/13	<b>2.72</b>	0.0343 J	0.0364 J	0.0411 J	<b>6.01</b>	--	--	--
TX-03A	04/23/14	<b>1.22</b>	0.0171	0.0251	0.027	<b>5.76</b>	--	--	--

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Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	07/24/14	<b>1.64</b>	0.0317	0.0698	0.052	<b>7.55</b>	0.382	< 0.094	--
TX-03A	11/04/14	<b>0.941</b>	0.0137	0.0366	0.0269	<b>5.76</b>	0.448	< 0.094	--
TX-03A	03/09/15	<b>1.86</b>	0.0246 J	0.0581	0.0390 J	<b>7.16</b>	--	--	--
TX-03A	05/21/15	<b>1.15</b>	0.0144 J	0.0462	0.0260 J	<b>3.4</b>	--	--	--
TX-03A	07/28/15	<b>1.72</b>	0.0213 J	0.118	0.0355 J	<b>5.42</b>	--	--	--
TX-03A	12/10/15	<b>0.635</b>	0.0126	0.026	0.0253	<b>3.32</b>	1.34	< 0.391	--
TX-03A	02/23/16	<b>1.78</b>	0.0274	0.0882	0.0385	<b>5.17</b>	--	--	--
TX-03A	05/02/16	<b>1.54</b>	0.037	0.208	0.0503	<b>6.3</b>	--	--	--
TX-03A	08/29/16	<b>0.844</b>	0.0257	0.246	0.053	<b>5.89</b>	--	--	--
TX-03A	12/15/16	<b>0.995</b>	0.0197 J	0.0697	0.0357 J	<b>4.81</b>	1.73	0.125 J	--
TX-03A	03/13/17	<b>0.76</b>	0.0208	0.0901	0.0352 J	<b>3.66</b>	--	--	--
TX-03A	06/13/17	<b>1.37</b>	0.0361	0.246	0.0618 J	<b>5.36</b>	--	--	--
TX-03A	08/22/17	<b>1.08</b>	0.0233	0.137	0.0363	<b>4.55</b>	--	--	--
TX-03A	12/05/17	<b>0.258</b>	0.00697 J	0.0172 J	0.0126 J	<b>3.07</b>	2.03	0.172 J	--
TX-03A	03/27/18	<b>0.135</b>	0.00114	0.00395	0.000969 J	<b>1.21</b>	--	--	--
TX-03A	06/13/18	<b>0.204</b>	0.0024	0.015	0.000713 J	0.97	--	--	--
TX-03A	09/06/18	<b>0.263</b>	0.00308	0.0252	0.00115 J	<b>1.31</b>	--	--	--
TX-03A	12/20/18	0.0278	0.000612 J	0.00282	0.000499 J	0.768	2.88	1.05	--
TX-03A	03/19/19	0.0131 J	< 0.000312	0.00143	< 0.000442	0.938	--	--	--
TX-03A	05/16/19	<b>0.102 J</b>	< 0.000170	0.00115 J	< 0.000580 J	0.991	--	--	--
TX-03A	09/19/19	0.00642	< 0.000312	0.00722	< 0.000442	0.446	--	--	--
TX-03A	12/11/19	0.00173	< 0.000312	0.0017	< 0.000442	0.521	1.72	0.154 J	--
TX-03A	04/28/20	0.023	< 0.000312	0.000578 J	< 0.000442	0.181	--	--	--
TX-03A	06/30/20	0.00796	< 0.000312	0.00135	< 0.000442	0.129 J	--	--	--
TX-03A	09/21/20	0.00527	< 0.001	0.00293	< 0.003	0.139 J	--	--	--
TX-03A	12/15/20	0.00499	0.00022	0.0029	< 0.0005	< 0.250	0.520	< 0.371	--
TX-03A	04/12/21	0.0665 J	0.00151	0.00955	< 0.000500	0.465	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
TX-04	01/13/04	0.025	0.0055	< 0.001	0.0194	0.65	0.59	< 0.5	--
TX-04	04/21/04	0.0025	0.0017	< 0.001	0.0031	0.47	2.2	< 0.75	--
TX-04	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	1.5	< 0.5	--
TX-04	10/18/04	< 0.001	< 0.001	< 0.001	0.0022	0.28	1.2	< 0.5	--
TX-04	01/24/05	0.031	0.0071	< 0.001	0.0204	0.87	0.64	< 0.5	--
TX-04	04/20/05	0.014	0.0036	< 0.001	0.0085	0.54	0.73	< 0.5	--
TX-04	07/12/05	< 0.001	< 0.001	< 0.001	0.0014	0.34	0.82	< 0.5	--
TX-04	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.2	1.1	< 0.5	--
TX-04	01/25/06	0.00127	0.001	< 0.0005	0.00151	0.206	0.835	< 0.476	--
TX-04	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	0.076	< 0.25	< 0.5	--
TX-04	11/16/09	< 0.0005	< 0.001	< 0.001	< 0.001	0.17	0.13	< 0.1	--
TX-04	10/25/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.17	< 0.1	--
TX-04	05/23/11	<0.0003	<0.0005	<0.0003	<0.0007	0.0554	--	--	--
TX-04	10/26/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	< 0.20	0.0966	< 0.20	--
TX-04	11/26/12	0.0013	0.00038 J	< 0.00020	0.00052 J	0.0980 J	0.0807 J	< 0.10	--
TX-04	11/04/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.0492 J	< 0.095	--
TX-04	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	< 0.048	< 0.096	--
TX-04	12/08/15	0.000268	< 0.0010	< 0.0010	< 0.0030	< 0.100	< 0.245	< 0.408	--
TX-04	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.0762 J	< 0.0608	--
TX-04	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.0834	< 0.125	--
TX-04	12/19/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	< 0.104	< 0.114	--
TX-04	12/12/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.122 J	< 0.119	--
TX-04	12/14/20	<0.00020	<0.0002	<0.00020	<0.0005	<0.250	<0.110	<0.351	--
TX-06A	01/14/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	5.8	< 1	--
TX-06A	04/21/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.4	< 0.75	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	Volatile Organic Compounds				Hydrocarbons			Lead
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd	TPHo	
Model Toxics Control Act									
Method A Cleanup Level		0.071	200	29	NE	1	10	10	0.0058
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-06A	07/27/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	3.6	< 0.5	--
TX-06A	10/18/04	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	4.1	< 0.5	--
TX-06A	01/24/05	< 0.001	< 0.001	< 0.001	< 0.001	< 0.25	2.7	< 0.5	--
TX-06A	04/20/05	< 0.001	< 0.001	< 0.001	< 0.001	0.18	6.3	< 1.5	--
TX-06A	07/13/05	< 0.001	< 0.001	< 0.001	< 0.001	0.26	2.5	< 0.5	--
TX-06A	10/18/05	< 0.001	< 0.001	< 0.001	< 0.001	0.072	0.93	< 0.5	--
TX-06A	01/26/06	< 0.0005	< 0.0005	< 0.0005	< 0.001	0.126	1.57	< 0.476	--
TX-06A	11/18/08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.05	0.49	< 0.5	--
TX-06A	11/17/09	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.24	< 0.1	--
TX-06A	10/28/10	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.1	0.72	< 0.1	--
TX-06A	10/25/11	< 0.0010	< 0.0010	< 0.0010	< 0.0020	0.0519	0.499	< 0.21	--
TX-06A	11/25/12	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.50	0.716	< 0.098	--
TX-06A	11/07/13	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.358	< 0.095	--
TX-06A	11/06/14	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	0.758	0.184	--
TX-06A	12/08/15	< 0.00020	< 0.0010	< 0.0010	< 0.0030	< 0.100	1.03	< 0.388	--
TX-06A	12/12/16	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0178	0.433	0.0707 J	--
TX-06A	12/05/17	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.36	< 0.122	--
TX-06A	12/20/18	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.592	0.244 J	--
TX-06A	12/10/19	< 0.0000930	< 0.000312	< 0.000198	< 0.000442	< 0.0704	0.244	< 0.119	--
TX-06A	12/14/20	< 0.00020	< 0.0002	< 0.00020	< 0.0005	< 0.250	1.32	0.589	--
MW-01	07/28/15	< 0.00020	< 0.00020	< 0.00020	< 0.00046	< 0.050	--	--	--

**Table 6**  
**BTEX, Petroleum Hydrocarbons, and Lead in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

**Note:**

[Yellow Box] = Indicates data collected during this progress report period

\* = Cleanup levels per the Cleanup Action Plan (Ecology, 1998)

<sup>1</sup> = Dissolved lead result

**Bold** = indicate detected concentration greater than cleanup level

BTEX = benzene, toluene, ethylbenzene, and total xylenes

J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an approximate value.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are laboratory Method Detection Limits (MDLs). Prior to June 12, 2012, limits shown are regulatory Method Detection Limits (MDLs).

mg/L = milligrams per liter

NA = not analyzed

NE = not established

TPHg = Total petroleum hydrocarbons as gasoline analyzed by Northwest Method NWTPH-Gx.

TPHd = Total petroleum hydrocarbons as diesel analyzed by Northwest Method NWTPH-Dx.

TPHo = Total petroleum hydrocarbons as oil analyzed by Northwest Method NWTPH-Dx.

**Table 7**  
**Carcinogenic PAHs in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	PAHs					
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	01/26/06	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943	< 0.0000943
MW-213	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-213	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-213	05/24/11	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003	< 0.00003
MW-213	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-213	06/12/12	< 0.000050	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035
MW-213	11/29/12	< 0.000053	< 0.000041	< 0.000035	< 0.000039	< 0.000045	< 0.000035
MW-213	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033
MW-213	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033
MW-213	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033
MW-213	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033
MW-213	05/19/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012
							< 0.0013

**Table 7**  
**Carcinogenic PAHs in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-213	12/09/15	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948	< 0.0000948
MW-213	05/03/16	< 0.00000920	< 0.0000101	< 0.0000101	< 0.0000138	< 0.00000644	< 0.0000120	< 0.0000202
MW-213	12/13/16	0.0000122	< 0.0000887	< 0.0000108	< 0.0000148	< 0.00000690	< 0.0000128	< 0.0000217
MW-213	06/14/17	< 0.0000888	< 0.0000109	< 0.0000109	< 0.0000148	< 0.00000691	< 0.0000128	< 0.0000217
MW-213	12/07/17	< 0.00000965	< 0.0000106	< 0.0000106	< 0.0000145	< 0.00000676	< 0.0000125	< 0.0000212
MW-213	06/12/18	< 0.0000103	< 0.0000113	< 0.0000113	< 0.0000154	< 0.00000720	< 0.0000134	< 0.0000226
MW-213	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000893	< 0.0000129	< 0.0000218
MW-213	12/11/19	< 0.0000119	< 0.0000896	< 0.0000109	< 0.0000149	< 0.00000995	< 0.0000129	< 0.0000219
MW-213	06/29/20	<0.0000124	<0.0000124	<0.0000113	<0.0000154	<0.0000103	<0.0000134	<0.0000226
MW-213	12/16/20	<0.0000503	<0.000101	<0.0000503	<0.0000503	<0.000101	<0.000101	<0.0000503
MW-214	01/30/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/17/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/16/03	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/14/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/20/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/28/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/19/04	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/25/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/19/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	07/12/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/20/05	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	01/26/06	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099	< 0.000099

**Table 7**  
**Carcinogenic PAHs in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	10/30/07	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	05/05/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	11/19/08	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
MW-214	04/07/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	11/18/09	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	04/26/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	10/28/10	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
MW-214	05/24/11	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029	< 0.000029
MW-214	10/25/11	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
MW-214	06/12/12	< 0.000051	< 0.000040	< 0.000034	< 0.000038	< 0.000044	< 0.000034	< 0.000034
MW-214	11/29/12	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/15/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	11/05/13	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	04/23/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-214	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-214	05/19/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-214	12/09/15	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908	< 0.0000908
MW-214	05/04/16	< 0.00000926	< 0.0000102	< 0.0000102	< 0.0000139	< 0.00000648	< 0.0000120	< 0.0000204
MW-214	12/14/16	0.00000994	< 0.0000883	< 0.0000108	< 0.0000147	< 0.00000687	< 0.0000128	< 0.0000216
MW-214	06/14/17	< 0.0000850	< 0.0000104	< 0.0000104	< 0.0000142	< 0.00000661	< 0.0000123	< 0.0000208
MW-214	12/07/17	< 0.0000102	< 0.0000112	< 0.0000112	< 0.0000153	< 0.00000713	< 0.0000132	< 0.0000224
MW-214	06/12/18	< 0.00000976	< 0.0000107	< 0.0000107	< 0.0000146	< 0.00000683	< 0.0000127	< 0.0000215
MW-214	12/19/18	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	05/16/19	< 0.0000119	< 0.0000119	< 0.0000109	< 0.0000149	< 0.00000894	< 0.0000129	< 0.0000219
MW-214	12/11/19	0.0000141 J	< 0.0000921	< 0.0000113	< 0.0000154	< 0.0000102	< 0.0000133	< 0.0000225

**Table 7**  
**Carcinogenic PAHs in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	PAHs						
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Dibenz(a,h)-anthracene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-214	06/29/20	<0.0000117	<0.0000117	<0.0000108	<0.0000147	<0.00000977	<0.0000127	<0.0000215
MW-214	12/16/20	<0.0000517	<0.000103	<0.0000517	<0.0000517	<0.000103	<0.000103	<0.0000517
MW-301	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-301	05/21/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-302	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-302	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-303	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000043	< 0.000033	< 0.000033
MW-303	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0013	< 0.0016	< 0.0012	< 0.0013
MW-304	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-304	05/20/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-309	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-309	05/20/15	< 0.0014	< 0.0011	< 0.0013	< 0.0014	< 0.0016	< 0.0012	< 0.0013
MW-310	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-310	05/21/15	< 0.0013	< 0.0010	< 0.0012	< 0.0013	< 0.0015	< 0.0012	< 0.0013
MW-311	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033
MW-312	11/05/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033	< 0.000033

**Table 7**  
**Carcinogenic PAHs in Groundwater**  
**Shell Harbor Island Terminal**  
**Seattle, Washington**

Sample ID	Sample Date	PAHs					
		Benzo(a)-anthracene	Benzo(a)-pyrene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Chrysene	Indeno(1,2,3-cd)pyrene
Model Toxics Control Act Method A Cleanup Level		0.000031	0.000031	0.000031	0.000031	0.000031	0.000031
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TX-03A	07/24/14	< 0.000050	< 0.000039	< 0.000033	< 0.000037	< 0.000042	< 0.000033
TX-03A	05/21/15	< 0.0014	< 0.0010	< 0.0013	< 0.0013	< 0.0016	< 0.0012
							< 0.0013

**Note:**

= Indicates data collected during this progress report period

\* = Cleanup levels per the Cleanup Action Plan (Ecology, 1998)

J = Result is less than the reporting limit, but greater than or equal to the method detection limit, and the concentration is an apprc

< = not detected at or above the indicated limit. Beginning June 12, 2012, limits shown are

ID = identification

mg/L = milligrams per liter

PAHs = polycyclic aromatic hydrocarbons

# **Attachment A**

## **Laboratory Report**



## Environment Testing America



# ANALYTICAL REPORT

Eurofins TestAmerica, Spokane  
11922 East 1st Ave  
Spokane, WA 99206  
Tel: (509)924-9200

Laboratory Job ID: 590-14948-1  
Laboratory SDG: 2555 13th Avenue SW, Seattle, WA  
Client Project/Site: Triton West Consent Decree

For:  
GHD Services Inc.  
2235 Mercury Way  
Suite 150  
Santa Rosa, California 95407

Attn: Jacquelyn England

Roxanne Cisneros

Authorized for release by:  
4/29/2021 8:36:34 AM  
Roxanne Cisneros, Senior Project Manager  
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# Case Narrative

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

## Job ID: 590-14948-1

### Laboratory: Eurofins TestAmerica, Spokane

#### Narrative

#### Job Narrative 590-14948-1

#### Comments

There is no volume remaining for Gx for sample MW-312 (590-14948-8). All vials were used for 8260.

#### Receipt

The samples were received on 4/13/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4° C.

#### GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside control limits: MW-303 (590-14948-2), MW-307 (590-14948-4) and MW-310 (590-14948-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-303 (590-14948-2), MW-304 (590-14948-3) and MW-312 (590-14948-8). Elevated reporting limits (RLs) are provided.

Method 8260D: Surrogate recovery for the following sample was outside control limits: MW-302 (590-14948-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-307 (590-14948-4). Elevated reporting limits (RLs) are provided.

Method 8260D: There is a possible high bias for benzene and ethylbenzene for the sample 590-14948-5 from carryover of a previous sample. There is insufficient sample volume for reanalysis. MW-308 (590-14948-5)

Method 8260D: There is a possible high bias for ethylbenzene for the sample 590-14948-3 from carryover of a previous sample. There is insufficient sample volume for reanalysis. MW-304 (590-14948-3)

Method 8260D: The following samples are reporting analytes over the calibration range due to dilutions that were run were over the calibration range and therefore does not represent the sample accurately. There is insufficient sample volume for reanalysis. MW-307 (590-14948-4), MW-315 (590-14948-11) and TX-03A (590-14948-12)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: MW-307 (590-14948-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: MW-315 (590-14948-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The following sample contained a hydrocarbon pattern in the diesel range; however, the elution pattern was later than the typical diesel fuel pattern used by the laboratory for quantitative purposes: MW-313 (590-14948-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 580-354398, so a LCS and LCSD were used instead.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Case Narrative

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

### Job ID: 590-14948-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Spokane (Continued)

##### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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## Sample Summary

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14948-1	MW-301	Water	04/13/21 08:29	04/13/21 15:10	
590-14948-2	MW-303	Water	04/13/21 08:57	04/13/21 15:10	
590-14948-3	MW-304	Water	04/13/21 07:46	04/13/21 15:10	
590-14948-4	MW-307	Water	04/12/21 12:43	04/13/21 15:10	
590-14948-5	MW-308	Water	04/12/21 12:12	04/13/21 15:10	
590-14948-6	MW-310	Water	04/12/21 13:34	04/13/21 15:10	
590-14948-7	MW-311	Water	04/13/21 10:13	04/13/21 15:10	
590-14948-8	MW-312	Water	04/13/21 10:46	04/13/21 15:10	
590-14948-9	MW-313	Water	04/13/21 11:13	04/13/21 15:10	
590-14948-10	MW-314	Water	04/13/21 09:33	04/13/21 15:10	
590-14948-11	MW-315	Water	04/13/21 11:50	04/13/21 15:10	
590-14948-12	TX-03A	Water	04/12/21 14:12	04/13/21 15:10	
590-14948-13	TB-01	Water	04/12/21 08:00	04/13/21 15:10	
590-14948-14	MW-302	Water	04/13/21 12:33	04/13/21 15:10	

# Definitions/Glossary

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
S1-	Surrogate recovery exceeds control limits, low biased.

### GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

## Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

☒	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-301**

Date Collected: 04/13/21 08:29

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-1**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	23.8		0.200		ug/L			04/21/21 03:33	1
Toluene	1.05		0.200		ug/L			04/21/21 03:33	1
Ethylbenzene	7.67		0.200		ug/L			04/21/21 03:33	1
Xylenes, Total	0.879		0.500		ug/L			04/21/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 03:33	1
Dibromofluoromethane (Surr)	91		80 - 120		04/21/21 03:33	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 03:33	1
1,2-Dichloroethane-d4 (Surr)	95		80 - 120		04/21/21 03:33	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1690		250		ug/L			04/22/21 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		50 - 150					04/22/21 06:03	1

**Client Sample ID: MW-303**

Date Collected: 04/13/21 08:57

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-2**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	13.5		0.200		ug/L			04/21/21 03:58	1
Toluene	1.70		0.200		ug/L			04/21/21 03:58	1
Xylenes, Total	10.4		0.500		ug/L			04/21/21 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120		04/21/21 03:58	1
Dibromofluoromethane (Surr)	84		80 - 120		04/21/21 03:58	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 03:58	1
1,2-Dichloroethane-d4 (Surr)	76	S1-	80 - 120		04/21/21 03:58	1

## Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	37.1		20.0		ug/L			04/23/21 17:20	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					04/23/21 17:20	100
Dibromofluoromethane (Surr)	95		80 - 120					04/23/21 17:20	100
4-Bromofluorobenzene (Surr)	97		80 - 120					04/23/21 17:20	100
1,2-Dichloroethane-d4 (Surr)	104		80 - 120					04/23/21 17:20	100

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	4070		250		ug/L			04/22/21 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		50 - 150					04/22/21 06:28	1

Eurofins TestAmerica, Spokane

# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-304**

Date Collected: 04/13/21 07:46

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-3**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.94		0.200		ug/L			04/21/21 04:22	1
Toluene	ND		0.200		ug/L			04/21/21 04:22	1
Ethylbenzene	1.07		0.200		ug/L			04/21/21 04:22	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 04:22	1
Dibromofluoromethane (Surr)	88		80 - 120		04/21/21 04:22	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 04:22	1
1,2-Dichloroethane-d4 (Surr)	91		80 - 120		04/21/21 04:22	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	307		250		ug/L			04/22/21 06:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150					04/22/21 06:52	1

**Client Sample ID: MW-307**

Date Collected: 04/12/21 12:43

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-4**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	22.8		0.200		ug/L			04/21/21 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120					04/21/21 04:47	1
Dibromofluoromethane (Surr)	79	S1-	80 - 120					04/21/21 04:47	1
4-Bromofluorobenzene (Surr)	102		80 - 120					04/21/21 04:47	1
1,2-Dichloroethane-d4 (Surr)	69	S1-	80 - 120					04/21/21 04:47	1

## Method: 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	133	E	0.200		ug/L			04/23/21 14:02	1
Ethylbenzene	93.0	E	0.200		ug/L			04/23/21 14:02	1
Xylenes, Total	95.0	E	0.500		ug/L			04/23/21 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	105		80 - 120					04/23/21 14:02	1
Dibromofluoromethane (Surr)	80		80 - 120					04/23/21 14:02	1
4-Bromofluorobenzene (Surr)	102		80 - 120					04/23/21 14:02	1
1,2-Dichloroethane-d4 (Surr)	80		80 - 120					04/23/21 14:02	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	4060		250		ug/L			04/22/21 07:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	50 - 150					04/22/21 07:17	1

Eurofins TestAmerica, Spokane

# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-308**

Date Collected: 04/12/21 12:12

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-5**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	36.5		0.200		ug/L			04/21/21 05:12	1
Toluene	0.521		0.200		ug/L			04/21/21 05:12	1
Ethylbenzene	0.515		0.200		ug/L			04/21/21 05:12	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		04/21/21 05:12	1
Dibromofluoromethane (Surr)	92		80 - 120		04/21/21 05:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/21/21 05:12	1
1,2-Dichloroethane-d4 (Surr)	93		80 - 120		04/21/21 05:12	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	267		250		ug/L			04/22/21 08:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150					04/22/21 08:06	1

**Client Sample ID: MW-310**

Date Collected: 04/12/21 13:34

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-6**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	22.1		0.200		ug/L			04/21/21 05:37	1
Toluene	0.414		0.200		ug/L			04/21/21 05:37	1
Ethylbenzene	2.69		0.200		ug/L			04/21/21 05:37	1
Xylenes, Total	0.570		0.500		ug/L			04/21/21 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		04/21/21 05:37	1
Dibromofluoromethane (Surr)	80		80 - 120		04/21/21 05:37	1
4-Bromofluorobenzene (Surr)	100		80 - 120		04/21/21 05:37	1
1,2-Dichloroethane-d4 (Surr)	78	S1-	80 - 120		04/21/21 05:37	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1610		250		ug/L			04/22/21 08:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150					04/22/21 08:31	1

**Client Sample ID: MW-311**

Date Collected: 04/13/21 10:13

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-7**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 06:02	1
Toluene	1.02		0.200		ug/L			04/21/21 06:02	1
Ethylbenzene	0.247		0.200		ug/L			04/21/21 06:02	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 06:02	1

Eurofins TestAmerica, Spokane

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-311**

Date Collected: 04/13/21 10:13  
Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-7**

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 06:02	1
Dibromofluoromethane (Surr)	93		80 - 120		04/21/21 06:02	1
4-Bromofluorobenzene (Surr)	101		80 - 120		04/21/21 06:02	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120		04/21/21 06:02	1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1320		250		ug/L			04/23/21 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		50 - 150					04/23/21 20:23	1

**Client Sample ID: MW-312**

Date Collected: 04/13/21 10:46  
Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-8**

Matrix: Water

**Method: 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.44		0.200		ug/L			04/21/21 06:26	1
Ethylbenzene	4.53		0.200		ug/L			04/21/21 06:26	1
Xylenes, Total	2.19		0.500		ug/L			04/21/21 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					04/21/21 06:26	1
Dibromofluoromethane (Surr)	92		80 - 120					04/21/21 06:26	1
4-Bromofluorobenzene (Surr)	100		80 - 120					04/21/21 06:26	1
1,2-Dichloroethane-d4 (Surr)	99		80 - 120					04/21/21 06:26	1

**Method: 8260D - Volatile Organic Compounds by GC/MS - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	121		20.0		ug/L			04/23/21 16:31	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					04/23/21 16:31	100
Dibromofluoromethane (Surr)	95		80 - 120					04/23/21 16:31	100
4-Bromofluorobenzene (Surr)	98		80 - 120					04/23/21 16:31	100
1,2-Dichloroethane-d4 (Surr)	105		80 - 120					04/23/21 16:31	100

**Client Sample ID: MW-313**

Date Collected: 04/13/21 11:13  
Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-9**

Matrix: Water

**Method: 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/23/21 14:51	1
Toluene	ND		0.200		ug/L			04/23/21 14:51	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 14:51	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120					04/23/21 14:51	1
Dibromofluoromethane (Surr)	95		80 - 120					04/23/21 14:51	1

Eurofins TestAmerica, Spokane

# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-313**

Date Collected: 04/13/21 11:13

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-9**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 14:51	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		04/23/21 14:51	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/23/21 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150		04/23/21 20:48	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	272		110		ug/L		04/15/21 11:28	04/17/21 01:51	1
Motor Oil (>C24-C36)	ND		350		ug/L		04/15/21 11:28	04/17/21 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	68		50 - 150				04/15/21 11:28	04/17/21 01:51	1

**Client Sample ID: MW-314**

**Lab Sample ID: 590-14948-10**

Matrix: Water

Date Collected: 04/13/21 09:33

Date Received: 04/13/21 15:10

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/23/21 15:17	1
Toluene	0.391		0.200		ug/L			04/23/21 15:17	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 15:17	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/23/21 15:17	1
Dibromofluoromethane (Surr)	92		80 - 120		04/23/21 15:17	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/23/21 15:17	1
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		04/23/21 15:17	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	363		250		ug/L			04/23/21 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150				04/23/21 21:13		1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	2750		110		ug/L		04/15/21 11:28	04/17/21 02:11	1
Motor Oil (>C24-C36)	745		351		ug/L		04/15/21 11:28	04/17/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	78		50 - 150				04/15/21 11:28	04/17/21 02:11	1

Eurofins TestAmerica, Spokane

# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-315**

**Lab Sample ID: 590-14948-11**

Matrix: Water

Date Collected: 04/13/21 11:50

Date Received: 04/13/21 15:10

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	66.6	E	0.200		ug/L			04/23/21 15:41	1
Toluene	4.93		0.200		ug/L			04/23/21 15:41	1
Ethylbenzene	1.41		0.200		ug/L			04/23/21 15:41	1
Xylenes, Total	2.56		0.500		ug/L			04/23/21 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		80 - 120		04/23/21 15:41	1
Dibromofluoromethane (Surr)	93		80 - 120		04/23/21 15:41	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/23/21 15:41	1
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		04/23/21 15:41	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	2900		250		ug/L			04/23/21 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	50 - 150					04/23/21 21:37	1

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	5040		111		ug/L		04/15/21 11:28	04/17/21 02:31	1
Motor Oil (>C24-C36)	691		354		ug/L		04/15/21 11:28	04/17/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150				04/15/21 11:28	04/17/21 02:31	1

**Client Sample ID: TX-03A**

**Lab Sample ID: 590-14948-12**

Matrix: Water

Date Collected: 04/12/21 14:12

Date Received: 04/13/21 15:10

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	66.5	E	0.200		ug/L			04/23/21 13:37	1
Toluene	1.51		0.200		ug/L			04/23/21 13:37	1
Ethylbenzene	9.55		0.200		ug/L			04/23/21 13:37	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		04/23/21 13:37	1
Dibromofluoromethane (Surr)	96		80 - 120		04/23/21 13:37	1
4-Bromofluorobenzene (Surr)	96		80 - 120		04/23/21 13:37	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		04/23/21 13:37	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	465		250		ug/L			04/22/21 08:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		50 - 150					04/22/21 08:55	1

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# Client Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: TB-01**

Date Collected: 04/12/21 08:00

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-13**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 00:40	1
Toluene	0.271		0.200		ug/L			04/21/21 00:40	1
Ethylbenzene	ND		0.200		ug/L			04/21/21 00:40	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 00:40	1
Dibromofluoromethane (Surr)	97		80 - 120		04/21/21 00:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/21/21 00:40	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/21/21 00:40	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/22/21 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150					04/22/21 05:14	1

**Client Sample ID: MW-302**

Date Collected: 04/13/21 12:33

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-14**

Matrix: Water

## Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.16		0.200		ug/L			04/23/21 16:06	1
Toluene	0.526		0.200		ug/L			04/23/21 16:06	1
Ethylbenzene	17.8		0.200		ug/L			04/23/21 16:06	1
Xylenes, Total	4.19		0.500		ug/L			04/23/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		04/23/21 16:06	1
Dibromofluoromethane (Surr)	79	S1-	80 - 120		04/23/21 16:06	1
4-Bromofluorobenzene (Surr)	97		80 - 120		04/23/21 16:06	1
1,2-Dichloroethane-d4 (Surr)	71	S1-	80 - 120		04/23/21 16:06	1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	1850		250		ug/L			04/23/21 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150					04/23/21 22:02	1

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# QC Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 580-354775/7**

**Matrix: Water**

**Analysis Batch: 354775**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.200		ug/L			04/21/21 00:15	1
Toluene	ND		0.200		ug/L			04/21/21 00:15	1
Ethylbenzene	ND		0.200		ug/L			04/21/21 00:15	1
Xylenes, Total	ND		0.500		ug/L			04/21/21 00:15	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		04/21/21 00:15	1
Dibromofluoromethane (Surr)	97		80 - 120		04/21/21 00:15	1
4-Bromofluorobenzene (Surr)	99		80 - 120		04/21/21 00:15	1
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		04/21/21 00:15	1

**Lab Sample ID: LCS 580-354775/4**

**Matrix: Water**

**Analysis Batch: 354775**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Benzene	5.00	5.240		ug/L		105	73 - 120
Toluene	5.00	5.179		ug/L		104	80 - 126
Ethylbenzene	5.00	5.181		ug/L		104	80 - 130
m-Xylene & p-Xylene	5.00	5.318		ug/L		106	86 - 130
o-Xylene	5.00	5.057		ug/L		101	80 - 133
Xylenes, Total	10.0	10.38		ug/L		104	73 - 142

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	100		80 - 120

**Lab Sample ID: LCSD 580-354775/5**

**Matrix: Water**

**Analysis Batch: 354775**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Benzene	5.00	5.089		ug/L		102	73 - 120	3
Toluene	5.00	5.088		ug/L		102	80 - 126	2
Ethylbenzene	5.00	5.067		ug/L		101	80 - 130	2
m-Xylene & p-Xylene	5.00	5.170		ug/L		103	86 - 130	3
o-Xylene	5.00	4.947		ug/L		99	80 - 133	2
Xylenes, Total	10.0	10.12		ug/L		101	73 - 142	3

  

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		80 - 120

Eurofins TestAmerica, Spokane

# QC Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 580-355100/7**

**Matrix: Water**

**Analysis Batch: 355100**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.200		ug/L			04/23/21 12:48	1
Toluene	ND		0.200		ug/L			04/23/21 12:48	1
Ethylbenzene	ND		0.200		ug/L			04/23/21 12:48	1
Xylenes, Total	ND		0.500		ug/L			04/23/21 12:48	1

  

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Toluene-d8 (Surr)	103		80 - 120				04/23/21 12:48	1
Dibromofluoromethane (Surr)	97		80 - 120				04/23/21 12:48	1
4-Bromofluorobenzene (Surr)	96		80 - 120				04/23/21 12:48	1
1,2-Dichloroethane-d4 (Surr)	108		80 - 120				04/23/21 12:48	1

**Lab Sample ID: LCS 580-355100/4**

**Matrix: Water**

**Analysis Batch: 355100**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Benzene	5.00	5.370		ug/L		107	73 - 120	
Toluene	5.00	5.454		ug/L		109	80 - 126	
Ethylbenzene	5.00	5.517		ug/L		110	80 - 130	
m-Xylene & p-Xylene	5.00	5.628		ug/L		113	86 - 130	
o-Xylene	5.00	5.440		ug/L		109	80 - 133	
Xylenes, Total	10.0	11.07		ug/L		111	73 - 142	

  

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Toluene-d8 (Surr)	103		80 - 120					
Dibromofluoromethane (Surr)	101		80 - 120					
4-Bromofluorobenzene (Surr)	96		80 - 120					
1,2-Dichloroethane-d4 (Surr)	107		80 - 120					

**Lab Sample ID: LCSD 580-355100/5**

**Matrix: Water**

**Analysis Batch: 355100**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	5.00	5.075		ug/L		101	73 - 120	6	10
Toluene	5.00	5.216		ug/L		104	80 - 126	4	20
Ethylbenzene	5.00	5.297		ug/L		106	80 - 130	4	10
m-Xylene & p-Xylene	5.00	5.443		ug/L		109	86 - 130	3	10
o-Xylene	5.00	5.267		ug/L		105	80 - 133	3	10
Xylenes, Total	10.0	10.71		ug/L		107	73 - 142	3	20

  

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
Toluene-d8 (Surr)	104		80 - 120					
Dibromofluoromethane (Surr)	101		80 - 120					
4-Bromofluorobenzene (Surr)	98		80 - 120					
1,2-Dichloroethane-d4 (Surr)	102		80 - 120					

Eurofins TestAmerica, Spokane

# QC Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 580-354853/4**

**Matrix: Water**

**Analysis Batch: 354853**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/22/21 03:36	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)									

**Lab Sample ID: LCS 580-354853/5**

**Matrix: Water**

**Analysis Batch: 354853**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	
TPH as Gasoline		1000	923.3		ug/L		92	79 - 120
Surrogate		%Recovery	Qualifer	Limits				Limits
4-Bromofluorobenzene (Surr)		99		50 - 150				

**Lab Sample ID: LCSD 580-354853/6**

**Matrix: Water**

**Analysis Batch: 354853**

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.		RPD	Limit
TPH as Gasoline		1000	926.0		ug/L		93	79 - 120	0	10
Surrogate		%Recovery	Qualifer	Limits				Limits	RPD	Limit
4-Bromofluorobenzene (Surr)		101		50 - 150						

**Lab Sample ID: MB 580-354977/26**

**Matrix: Water**

**Analysis Batch: 354977**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline	ND		250		ug/L			04/23/21 19:10	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)									

**Lab Sample ID: LCS 580-354977/27**

**Matrix: Water**

**Analysis Batch: 354977**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.
TPH as Gasoline		1000	909.2		ug/L		91
<b>Surrogate</b>							
4-Bromofluorobenzene (Surr)							

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Prepared

Analyzed

Dil Fac

04/23/21 19:10

1

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Prepared

Analyzed

Dil Fac

04/23/21 19:10

1

Eurofins TestAmerica, Spokane

# QC Sample Results

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 580-354977/28**

**Matrix: Water**

**Analysis Batch: 354977**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline	1000	950.6		ug/L		95	79 - 120	4	10
<hr/>									
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	104		50 - 150						

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH-Dx

**Lab Sample ID: MB 580-354398/1-A**

**Matrix: Water**

**Analysis Batch: 354466**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 354398**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C24)	ND		110		ug/L		04/15/21 11:28	04/16/21 19:51	1
Motor Oil (>C24-C36)	ND		350		ug/L		04/15/21 11:28	04/16/21 19:51	1
<hr/>									
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl	80		50 - 150				04/15/21 11:28	04/16/21 19:51	1

**Lab Sample ID: LCS 580-354398/2-A**

**Matrix: Water**

**Analysis Batch: 354466**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 354398**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C24)	2000	1849		ug/L		92	50 - 120		
Motor Oil (>C24-C36)	2000	1959		ug/L		98	64 - 120		
<hr/>									
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
o-Terphenyl	99		50 - 150						

**Lab Sample ID: LCSD 580-354398/3-A**

**Matrix: Water**

**Analysis Batch: 354466**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 354398**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C24)	2000	1699		ug/L		85	50 - 120	8	26
Motor Oil (>C24-C36)	2000	1788		ug/L		89	64 - 120	9	24
<hr/>									
<b>Surrogate</b>	<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
o-Terphenyl	91		50 - 150						

Eurofins TestAmerica, Spokane

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

## **Client Sample ID: MW-301**

Date Collected: 04/13/21 08:29

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-1**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 03:33	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:03	JSM	TAL SEA

## **Client Sample ID: MW-303**

Date Collected: 04/13/21 08:57

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-2**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 03:58	K1G	TAL SEA
Total/NA	Analysis	8260D	DL	100	10 mL	10 mL	355100	04/23/21 17:20	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:28	JSM	TAL SEA

## **Client Sample ID: MW-304**

Date Collected: 04/13/21 07:46

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-3**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 04:22	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 06:52	JSM	TAL SEA

## **Client Sample ID: MW-307**

Date Collected: 04/12/21 12:43

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-4**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 04:47	K1G	TAL SEA
Total/NA	Analysis	8260D	RA	1	10 mL	10 mL	355100	04/23/21 14:02	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 07:17	JSM	TAL SEA

## **Client Sample ID: MW-308**

Date Collected: 04/12/21 12:12

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-5**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 05:12	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:06	JSM	TAL SEA

## **Client Sample ID: MW-310**

Date Collected: 04/12/21 13:34

Date Received: 04/13/21 15:10

## **Lab Sample ID: 590-14948-6**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 05:37	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:31	JSM	TAL SEA

Eurofins TestAmerica, Spokane

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: MW-311**

Date Collected: 04/13/21 10:13

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-7**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 06:02	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 20:23	JSM	TAL SEA

**Client Sample ID: MW-312**

Date Collected: 04/13/21 10:46

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-8**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 06:26	K1G	TAL SEA
Total/NA	Analysis	8260D	DL	100	10 mL	10 mL	355100	04/23/21 16:31	K1G	TAL SEA

**Client Sample ID: MW-313**

Date Collected: 04/13/21 11:13

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-9**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 14:51	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 20:48	JSM	TAL SEA
Total/NA	Prep	3510C			250.2 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 01:51	JKM	TAL SEA

**Client Sample ID: MW-314**

Date Collected: 04/13/21 09:33

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-10**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 15:17	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 21:13	JSM	TAL SEA
Total/NA	Prep	3510C			249.2 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 02:11	JKM	TAL SEA

**Client Sample ID: MW-315**

Date Collected: 04/13/21 11:50

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-11**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 15:41	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 21:37	JSM	TAL SEA
Total/NA	Prep	3510C			247.5 mL	1 mL	354398	04/15/21 11:28	JBT	TAL SEA
Total/NA	Analysis	NWTPH-Dx		1			354466	04/17/21 02:31	JKM	TAL SEA

Eurofins TestAmerica, Spokane

# Lab Chronicle

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

**Client Sample ID: TX-03A**

Date Collected: 04/12/21 14:12

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-12**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 13:37	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 08:55	JSM	TAL SEA

**Client Sample ID: TB-01**

Date Collected: 04/12/21 08:00

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-13**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	354775	04/21/21 00:40	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354853	04/22/21 05:14	JSM	TAL SEA

**Client Sample ID: MW-302**

Date Collected: 04/13/21 12:33

Date Received: 04/13/21 15:10

**Lab Sample ID: 590-14948-14**

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	10 mL	10 mL	355100	04/23/21 16:06	K1G	TAL SEA
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	354977	04/23/21 22:02	JSM	TAL SEA

**Laboratory References:**

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Eurofins TestAmerica, Spokane

## Accreditation/Certification Summary

Client: GHD Services Inc.

Project/Site: Triton West Consent Decree

Job ID: 590-14948-1

SDG: 2555 13th Avenue SW, Seattle, WA

### Laboratory: Eurofins FGS, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	WA100007	11-05-21
Washington	State	C788	07-13-21

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Eurofins TestAmerica, Spokane

## Method Summary

Client: GHD Services Inc.  
Project/Site: Triton West Consent Decree

Job ID: 590-14948-1  
SDG: 2555 13th Avenue SW, Seattle, WA

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL SEA
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL SEA
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH-Dx	NWTPH	TAL SEA
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SEA
5030B	Purge and Trap	SW846	TAL SEA

**Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL SEA = Eurofins FGS, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

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LAB (LOCATION)

ALCOM

**Shell Oil Products US Chain Of Custody Record**

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AECOM

## **Shell Oil Products US Chain Of Custody Record**

LAB (LOCATION)		Shell Oil Products US Chain Of Custody Record									
<input type="checkbox"/> ACCUTEST <input type="checkbox"/> CALSCIENCE <input checked="" type="checkbox"/> TESTAMERICA <input type="checkbox"/> Other		<b>Please Check Appropriate Box:</b> <input type="checkbox"/> SCW FG <input type="checkbox"/> PIPELINE <input type="checkbox"/> RETAIL <input type="checkbox"/> CHEMICALS <input type="checkbox"/> CONSULTANT <input type="checkbox"/> LUBES <input type="checkbox"/> TRANSPORTATION <input type="checkbox"/> OTHER									
Lab Vendor # <input type="text" value="Dropdown"/>		ADDRESS: <input type="text" value="1680 Rogers Ave, San Jose, CA, 95112"/> PROJECT CONTACT (Name/Title or TDF Report to): <input type="text" value="Jacquelyn England"/> TELEPHONE: <input type="text" value="707)523-1010"/> FAX: <input type="text" value="Jacquelyn.enoland@ghd.com"/> LA - RWQCB REPORT FORMAT <input type="checkbox"/> UST AGENCY: <input type="checkbox"/>									
SAMPLING COMPANY: <input type="text" value="Blaine Tech Services, Inc"/>		Print Bill To Contact Name: <input type="text" value="Jacquelyn England, GHD, Santa Rosa"/> PO #: <input type="text" value="707)523-1010"/> GSAP Project ID: <input type="text" value="Jacquelyn.enoland@ghd.com"/> LAB USE ONLY									
		GRD Project / Task Number: <input type="text" value="11218519"/> DATE: <input type="text" value="4/13/21"/> PAGE: <input type="text" value="2 of 2"/>									
		<input type="checkbox"/> CHECK IF NO INCIDENT # APPLIES <input type="checkbox"/> GSAP Project ID <input type="checkbox"/> AECOM Other ID									
		SITE ADDRESS: Street and City <input type="text" value="2555 13th Avenue"/> OFF DELIVERABLE TO Name, Company, Office Location: <input type="text" value="Jacquelyn England, GHD, Santa Rosa"/> SAMPLER NAME(S) (PRINT): <input type="text" value="Jacquelyn England"/>									
		State: <input type="text" value="WA"/> PHONE NO.: <input type="text" value="Jacquelyn.enoland@ghd.com"/> E-MAIL: <input type="text" value="Jacquelyn.enoland@ghd.com"/> LAB USE ONLY									
		FIELD NOTES: TEMPERATURE ON RECEIPT C°									
		Container PID Readings or Laboratory Notes									
		REQUESTED ANALYSIS									
		UNIT COST									
		NON-UNIT COST									
		RESULTS NEEDED ON WEEKEND									
		TURNAROUND TIME (CALENDAR DAYS): <input type="checkbox"/> STANDARD (14 DAY) <input type="checkbox"/> 3 DAYS <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> OTHER (SPECIFY) _____									
		DELIVERABLES: <input type="checkbox"/> LEVEL 1 <input type="checkbox"/> LEVEL 2 <input type="checkbox"/> LEVEL 3 <input type="checkbox"/> LEVEL 4 <input type="checkbox"/> OTHER (SPECIFY) _____									
		TEMPERATURE ON RECEIPT C°: <input type="text" value="Cooler #1"/> Cooler #2 <input type="checkbox"/> COOLER #3									
		SPECIAL INSTRUCTIONS OR NOTES : <input type="checkbox"/> SHELL CONTRACT RATE APPLIES <input type="checkbox"/> STATE REIMBURSEMENT RATE APPLIES <input type="checkbox"/> END NOT NEEDED <input type="checkbox"/> RECEIPT VERIFICATION REQUESTED <input type="checkbox"/> PROVIDE LED DISK									
		PRESERVATIVE									
		SAMPLING									
		FIELD SAMPLE IDENTIFICATION									
		LAB USE ONLY									
		DATE <input type="text" value="4/13"/> TIME <input type="text" value="1150"/> MATRIX <input type="text" value="6W"/> HCL <input type="text" value="6"/> HNO3 <input type="text" value="6"/> HFSD4 <input type="text" value="6"/> NONE <input type="text" value="6"/> OTHER									
		MW-315 <input type="text" value="X X X X"/> TX-03A <input type="text" value="X X X X"/> TB-01 <input type="text" value="X X X X"/> MW-302 <input type="text" value="X X X X"/>									
		Received by: (Signature) <input type="text" value="J. Voss"/> Received by: (Signature) <input type="text" value="4/13/21"/> Received by: (Signature) <input type="text" value="1900"/> Received by: (Signature)									
		Received by: (Signature) <input type="text" value="1425"/> Received by: (Signature) <input type="text" value="1425"/> Received by: (Signature) <input type="text" value="1425"/> Received by: (Signature)									

## Eurofins TestAmerica, Spokane

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

## Chain of Custody Record



eurofins

Environment Testing  
America

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Phone:	Cisneros, Roxanne	State of Origin:		590-5917.1	
Company: Eurofins Frontier Global Sciences LLC		Accreditations Required (See note): NELAP - Oregon; State Program - Washington				Page:	
Address: 5755 8th Street East,		Due Date Requested: 4/26/2021	Job #: 590-14948-1				
City: Tacoma		TAT Requested (days):	Preservation Codes:				
State, Zip: WA, 98424		PO #:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)			
Phone: 253-922-2310(Tel) 426-420-9210(Fax)		WO #:	Other:				
Email:		SSOW#:					
Project Name: Triton West Consent Decree		Project #: 59002120					
Site:		SSOW#:					
<b>Sample Identification - Client ID (Lab ID)</b>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab) BT=TISSUE, A=Air	Matrix (W=water, S=solid, O=water/oil)	Total Number of Containers	
				Field Filtered Sample (Yes or No)	Perform WSM/MSD (Yes or No)		
				8260D_LL/5030B (MOD) BTEx	NWTPH_G/5030B NWTPH_Gx		
				NWTPH_D/3510C_LVI_14d	NWTPH-Dx w/o SGT LVI		
MW-301 (590-14948-1)		4/13/21	08:29 Pacific	Water	X X	4	
MW-303 (590-14948-2)		4/13/21	08:57 Pacific	Water	X X	4	
MW-304 (590-14948-3)		4/13/21	07:46 Pacific	Water	X X	4	
MW-307 (590-14948-4)		4/12/21	12:43 Pacific	Water	X X	4	
MW-308 (590-14948-5)		4/12/21	12:12 Pacific	Water	X X	4	
MW-310 (590-14948-6)		4/12/21	13:34 Pacific	Water	X X	4	
MW-311 (590-14948-7)		4/13/21	10:13 Pacific	Water	X X	4	
MW-312 (590-14948-8)		4/13/21	10:46 Pacific	Water	X X	4	
MW-313 (590-14948-9)		4/13/21	11:13 Pacific	Water	X X X	6, w/o SGT	
Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.							
<b>Possible Hazard Identification</b>				<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed				<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:		Date/Time:	Company	Received by:		Date/Time:	Company
Relinquished by:				Received by:		Date/Time:	Company
Relinquished by:				Received by:		Date/Time:	Company
Custody Seals Intact: △ Yes △ No		Cooler Temperature(s) °C and Other Remarks:					



**Eurofins TestAmerica, Spokane**

11922 East 1st Ave  
Spokane, WA 99206  
Phone: 509-924-9200 Fax: 509-924-9290

## **Chain of Custody Record**



- Environment Testing
- America

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current as of date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

<b>Possible Hazard Identification</b>		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
Unconfirmed		<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		
<input type="checkbox"/> Yes <input type="checkbox"/> No					

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

**Login Number:** 14948

**List Source:** Eurofins TestAmerica, Spokane

**List Number:** 1

**Creator:** Cisneros, Roxanne

### Question

### Answer

### Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

**Login Number:** 14948

**List Source:** Eurofins TestAmerica, Seattle

**List Number:** 2

**List Creation:** 04/13/21 05:54 PM

**Creator:** Vallelunga, Diana L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 590-14948-1

SDG Number: 2555 13th Avenue SW, Seattle, WA

**Login Number:** 14948

**List Source:** Eurofins TestAmerica, Seattle

**List Number:** 3

**List Creation:** 04/13/21 05:55 PM

**Creator:** Vallelunga, Diana L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4/0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Jacquelyn England

---

**From:** Roxanne Cisneros <roxanne.cisneros@Eurofinset.com>  
**Sent:** Tuesday, April 27, 2021 10:15 AM  
**To:** Heather Gadwa; Jacquelyn England; Jeffrey Cloud; Navee Ratnam; Shell Results  
**Subject:** Eurofins TestAmerica report files from 590-14948-1 Triton West Consent Decree  
**Attachments:** COC\_590-14948-1.pdf

**CompleteRepository**11218519  
**Description:** Shell - TRITON WEST CONSENT DECREE  
**JobNo:** 11218519  
**OperatingCentre:** 5615  
**RepoEmail:** 11218519@ghd.com  
**RepoType:** Project

There is no volume remaining for Gx for sample MW-312. All vials were used for 8260.

**Roxanne Cisneros**  
Project Manager

Eurofins TestAmerica, Canton  
Phone: 615-301-5761

E-mail: roxanne.cisneros@Eurofinset.com  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [240-494955]  
Attachments: 1

> > Bank information has changed, please refer to remittance information on invoice. < <

# **Attachment B**

## **Data Quality Review Report**



# Memorandum

May 7, 2021

To: Jacquelyn England  
*JL*  
Ref. No.: 11218519

From: Jeffrey Cloud/eew/3-NF  
Tel: 206-914-3141

CC: Heather Gadwa

**Subject:** Analytical Results and Reduced Validation of Report J14948  
Quarterly Groundwater Sampling  
Shell International Petroleum - Triton West Consent Decree  
Seattle, Washington  
April 2021

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## 1. Introduction

This document details a reduced validation of analytical results for groundwater samples collected in support of the Quarterly Groundwater Sampling at the Triton West Consent Decree site in Seattle, Washington during April 2021. Samples were submitted to Eurofins TestAmerica, located in Spokane, Washington. 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, recovery data from surrogate spikes, laboratory control samples 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 Organic Data Review", United States Environmental Protection Agency (USEPA) 540 R 2016 002, September 2016.

## 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 report 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).



### **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 volatile organic compound (VOC), gasoline range organics (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 with a few exceptions. Where high recoveries were found the associated sample results were qualified as estimated due to the implied high bias. Where low recoveries were found the associated sample results were qualified as estimated due to the implied low bias. A summary of the qualifications is presented in Table 4.

### **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/LCSD contained all analytes of interest. All LCS/LCSD recoveries and RPDs were within associated control limits, demonstrating acceptable analytical accuracy and precision.

### **6. Field QA/QC Samples**

The field QA/QC consisted of one trip blank sample.



To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for analysis. All results were non-detect for the analytes of interest with the exception of toluene. The associated sample results with concentrations similar to the blank were qualified as estimated due to the implied high bias (see Table 5).

## **7. Analyte Reporting**

The laboratory did not report any detected concentrations below the laboratory's reporting limit (RL). Non-detect results were presented as non-detect at the RL in Table 3.

Several sample results were reported outside of the upper end of the instrument calibration range and were qualified as estimated (see Table 6).

Several sample results were potentially impacted by suspected instrumental carryover and qualified as estimated due to the implied high bias (see Table 7).

If multiple QC results exhibit variability and/or high/low directional biases as related to a sample result, then any directional bias indicators are removed from the final sample result qualification.

## **8. 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**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

<b>Sample Identification</b>	<b>Location</b>	<b>Matrix</b>	<b>Collection Date</b>	<b>Collection Time</b>	<b>Analysis/Parameters</b>			<b>Comments</b>
			(mm/dd/yyyy)	(hr:min)	<b>DRO/ORO</b>	<b>GRO</b>	<b>VOCs</b>	
MW-301	MW-301	Water	04/13/2021	08:29		X	X	
MW-302	MW-302	Water	04/13/2021	12:33		X	X	
MW-303	MW-303	Water	04/13/2021	08:57		X	X	
MW-304	MW-304	Water	04/13/2021	07:46		X	X	
MW-307	MW-307	Water	04/12/2021	12:43		X	X	
MW-308	MW-308	Water	04/12/2021	12:12		X	X	
MW-310	MW-310	Water	04/12/2021	13:34		X	X	
MW-311	MW-311	Water	04/13/2021	10:13		X	X	
MW-312	MW-312	Water	04/13/2021	10:46		X	X	
MW-313	MW-313	Water	04/13/2021	11:13	X	X	X	
MW-314	MW-314	Water	04/13/2021	09:33	X	X	X	
MW-315	MW-315	Water	04/13/2021	11:50	X	X	X	
TX-03A	TX-03A	Water	04/12/2021	14:12		X	X	
TB-01	--	Water	04/12/2021	--		X		Trip Blank

**Notes:**

- 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**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

<b>Parameter</b>	<b>Method</b>	<b>Matrix</b>
Volatile Organic Compounds (VOCs)	SW-846 8260D <sup>(1)</sup>	Water
Gasoline Range Organics (GRO)	NWTPH-Gx <sup>(2)</sup>	Water
Diesel Range Organics (DRO)/Motor Oil Range Organics (ORO)	NWTPH-Dx <sup>(2)</sup>	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  
Shell International Petroleum - Harbor Island Triton West  
Seattle, Washington  
April 2021**

<b>Location ID:</b>	<b>MW-301</b>	<b>MW-302</b>	<b>MW-303</b>	<b>MW-304</b>	<b>MW-307</b>	<b>MW-308</b>	<b>MW-310</b>
<b>Sample Name:</b>	<b>MW-301</b>	<b>MW-302</b>	<b>MW-303</b>	<b>MW-304</b>	<b>MW-307</b>	<b>MW-308</b>	<b>MW-310</b>
<b>Sample Date:</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/12/2021</b>	<b>04/12/2021</b>	<b>04/12/2021</b>

<b>Parameters</b>	<b>Unit</b>	<b>MW-301</b>	<b>MW-302</b>	<b>MW-303</b>	<b>MW-304</b>	<b>MW-307</b>	<b>MW-308</b>	<b>MW-310</b>
<b>Volatile Organic Compounds</b>								
Benzene	µg/L	23.8	6.16 J-	13.5 J-	1.94	133 J	36.5 J+	22.1 J-
Ethylbenzene	µg/L	7.67	17.8 J-	37.1 J-	1.07 J+	93.0 J	0.515 J+	2.69 J-
Toluene	µg/L	1.05	0.526 J	1.70 J-	0.200 U	22.8 J-	0.521 J+	0.414 J
Xylenes (total)	µg/L	0.879	4.19 J-	10.4 J-	0.500 U	95.0 J	0.500 U	0.570 J-
<b>Total Petroleum Hydrocarbons</b>								
Gasoline	µg/L	1690	1850	4070	307	4060 J+	267	1610
Motor oil	µg/L	--	--	--	--	--	--	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	--	--	--	--	--

**Table 3**

**Analytical Results Summary  
Quarterly Groundwater Sampling  
Shell International Petroleum - Harbor Island Triton West  
Seattle, Washington  
April 2021**

<b>Location ID:</b>	<b>MW-311</b>	<b>MW-312</b>	<b>MW-313</b>	<b>MW-314</b>	<b>MW-315</b>	<b>TX-03A</b>
<b>Sample Name:</b>	<b>MW-311</b>	<b>MW-312</b>	<b>MW-313</b>	<b>MW-314</b>	<b>MW-315</b>	<b>TX-03A</b>
<b>Sample Date:</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/13/2021</b>	<b>04/12/2021</b>

<b>Parameters</b>		<b>Unit</b>					
<b>Volatile Organic Compounds</b>							
Benzene	µg/L	0.200 U	121	0.200 U	0.200 U	66.6 J	66.5 J
Ethylbenzene	µg/L	0.247	4.53	0.200 U	0.200 U	1.41	9.55
Toluene	µg/L	1.02	2.44	0.200 U	0.391 J+	4.93	1.51
Xylenes (total)	µg/L	0.500 U	2.19	0.500 U	0.500 U	2.56	0.500 U
<b>Total Petroleum Hydrocarbons</b>							
Gasoline	µg/L	1320	--	250 U	363	2900 J+	465
Motor oil	µg/L	--	--	350 U	745	691	--
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/L	--	--	272	2750	5040	--

Notes:

U - Not detected at the associated reporting limit

DRO - Diesel Range Organics

J - Estimated concentration

J+ - Estimated concentration; implied high bias

J- - Estimated concentration; implied low bias

-- - Not analyzed

**Table 4**

**Qualified Sample Data Due to Outlying of Surrogate Recoveries**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

Parameter	Sample ID	Surrogate	Surrogate	Control Limits		Analyte	Result	Qualified
			% Recovery	% Recovery	% Recovery			
VOCs	MW-302	1,2-Dichloroethane-d4	71	80-120	Benzene	6.16 J-	µg/L	
		Dibromofluoromethane	79	80-120	Ethylbenzene	17.8 J-	µg/L	
					Toluene	0.526 J	µg/L	
					Xylenes (total)	4.19 J-	µg/L	
	MW-303	1,2-Dichloroethane-d4	76	80-120	Benzene	13.5 J-	µg/L	
					Ethylbenzene	37.1 J-	µg/L	
					Toluene	1.70 J-	µg/L	
					Xylenes (total)	10.4 J-	µg/L	
	MW-307	1,2-Dichloroethane-d4	69	80-120	Benzene	133 J	µg/L	
		Dibromofluoromethane	79	80-120	Ethylbenzene	93.0 J	µg/L	
					Toluene	22.8 J-	µg/L	
					Xylenes (total)	95.0 J	µg/L	
	MW-310	1,2-Dichloroethane-d4	78	80-120	Benzene	22.1 J-	µg/L	
					Ethylbenzene	2.69 J-	µg/L	
					Toluene	0.414 J	µg/L	
					Xylenes (total)	0.570 J-	µg/L	
TPH	MW-315	p-Bromofluorobenzene	186	50-150	Gasoline	2900 J+	µg/L	
	MW-307	p-Bromofluorobenzene	157	50-150	Gasoline	4060 J+	µg/L	

Notes:

- J - Estimated concentration
- J+ - Estimated concentration; implied high bias
- J- - Estimated concentration; implied low bias
- VOCs - Volatile Organic Compounds
- TPH - Total Petroleum Hydrocarbons

**Table 5**

**Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result *	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	04/12/2021	Toluene	0.271	MW-314	0.391	0.391 J+	µg/L
				MW-302	0.526	0.526 J	µg/L
				MW-308	0.521	0.521 J+	µg/L
				MW-310	0.414	0.414 J	µg/L

Notes:

\* - Blank result adjusted for sample factors where applicable

J - Estimated concentration

J+ - Estimated concentration; implied high bias

VOCs - Volatile Organic Compounds

**Table 6**

**Qualified Sample Data Due to Exceedance of Calibration Range**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

<b>Parameter</b>	<b>Sample ID</b>	<b>Analyte</b>	<b>Qualified</b>	
			<b>Result</b>	<b>Units</b>
VOCs	MW-315	Benzene	66.6 J	µg/L
	TX-03A	Benzene	66.5 J	µg/L
	MW-307	Benzene	133 J	µg/L
		Ethylbenzene	93.0 J	µg/L
		Xylenes (total)	95.0 J	µg/L

Notes:

J - Estimated concentration

VOCs - Volatile Organic Compounds

**Table 7**

**Qualified Sample Data Due to Suspected Instrumental Carryover**  
**Quarterly Groundwater Sampling**  
**Shell International Petroleum - Harbor Island Triton West**  
**Seattle, Washington**  
**April 2021**

<b>Parameter</b>	<b>Sample ID</b>	<b>Analyte</b>	<b>Qualified</b>	
			<b>Result</b>	<b>Units</b>
VOCs	MW-308	Benzene	36.5 J+	µg/L
		Ethylbenzene	0.515 J+	µg/L
	MW-304	Ethylbenzene	1.07 J+	µg/L

Notes:

J+ - Estimated concentration; implied high bias

VOCs - Volatile Organic Compounds