

CONFIRMATIONAL GROUNDWATER MONITORING REPORT – JANUARY 2023 SAMPLING EVENT

SeaTac Development Site (MasterPark Lot C Property)

Prepared for:

Mr. Vance Atkins

Washington Department of Ecology

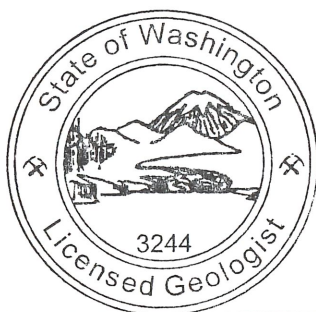
March 2023



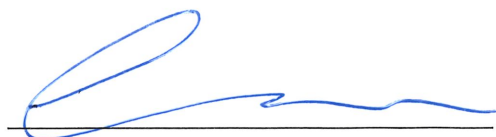
Confirmational Groundwater Monitoring Report - January 2023 Sampling Event

Prepared for:
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This document has been prepared by SLR International Corporation (SLR). The material and data in this report were prepared under the supervision and direction of the undersigned.



Christopher A. Lee

A handwritten signature in blue ink, consisting of a large, stylized 'C' followed by a series of loops and a horizontal line at the end.

Christopher Lee, L.G.
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A handwritten signature in blue ink, featuring a large, stylized 'R' followed by the words "Scott Miller" in a cursive script.

R. Scott Miller, P.E.
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ACRONYMS

µg/L	micrograms per liter
mg/L	milligrams per liter
Apex	Apex Laboratories, Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes
CMP	Compliance Monitoring Plan
COC	contaminants of concern
DO	dissolved oxygen
Ecology	Washington Department of Ecology
EDB	1,2-dibromoethane
Golder	Golder Associates, Inc.
GRO	gasoline range organics
IAS/SVE	in-situ air sparging and soil vapor extraction
MDL	method detection limit
MRL	method reporting limit
MSL	mean sea level
ORP	oxygen reduction potential
QA	quality assurance
QC	quality control
SLR	SLR International Corporation

1. INTRODUCTION

On January 30 and 31, 2023, SLR International Corporation (SLR) conducted a quarterly confirmational groundwater monitoring event at the SeaTac Development Site (the Site), which is primarily located at 16025 International Boulevard in SeaTac, Washington (the subject property). The location of the subject property, which is occupied by the MasterPark Lot C parking lot, is shown on Figure 1.

From approximately May to July 2013 and December 2013 through July 2017, Golder Associates, Inc. (Golder) operated an in-situ air sparging and soil vapor extraction (IAS/SVE) system at the subject property to remediate the petroleum hydrocarbon-impacted groundwater at the Site. After the deactivation of the IAS/SVE system in July 2017, performance groundwater monitoring events were conducted on a semiannual basis from November 2017 through July 2019 to monitor any changes in the petroleum hydrocarbon concentrations over time. The results of the performance groundwater monitoring showed that petroleum hydrocarbon concentrations in the groundwater beneath the northern and northwestern parts of the subject property were still above the MTCA Method A cleanup levels by July 2019 (SLR, 2019). To reduce the remaining petroleum hydrocarbon concentrations in the groundwater, SLR reactivated the IAS/SVE system on September 5, 2019. The system was operated through July 15, 2020, when it was deactivated prior to the July 2020 performance groundwater monitoring event. Based on the results of the January and July 2020 performance groundwater monitoring events (SLR, 2020a and SLR, 2020b), it appeared that the IAS/SVE system had effectively reduced the petroleum hydrocarbon concentrations in the groundwater beneath the subject property to levels that should naturally attenuate to the below the cleanup levels within a reasonable timeframe. Therefore, the IAS/SVE system was not reactivated after the July 2020 performance groundwater monitoring event.

In accordance with the Compliance Monitoring Plan (CMP; Golder 2011) for the Site, the confirmational groundwater monitoring program has been conducted to evaluate the potential rebound of contaminant concentrations after the deactivation of the IAS/SVE system, and if there is minimal rebound, to demonstrate that the contaminant concentrations have been reduced to below the cleanup levels or to concentrations that will naturally attenuate to below the cleanup levels within a reasonable timeframe. The first four quarterly confirmational groundwater monitoring events were conducted in October 2020, January 2021, April 2021, and July 2021. The groundwater sample analytical results showed that there was some localized rebound of the gasoline-range organics (GRO) concentrations at monitoring wells MW-07, MW-12, and MW-22; however, the GRO concentrations were not at levels that justified reactivation of the IAS/SVE system (SLR, 2020d; SLR, 2021a; SLR, 2021b; SLR, 2021c).

The first semiannual confirmational groundwater monitoring event was conducted in January 2022 in accordance with the CMP for the Site, as well as with the modifications to the confirmational groundwater monitoring program (SLR, 2020c) that were approved by the Washington Department of Ecology (Ecology; Ecology, 2020). The groundwater sample analytical results showed that the sample from well MW-07 contained a GRO concentration that exceeded the MTCA Method A cleanup level. The groundwater samples from the other sampled wells did not contain analyte concentrations greater than the Method A or Method B cleanup levels (SLR, 2022a).

The second semiannual confirmational groundwater monitoring event was conducted in July 2022. None of the groundwater samples contained analyte concentrations greater than the MTCA Method A or Method B cleanup levels (SLR, 2022b). Since there were no groundwater contaminants of concern (COC)

concentrations greater than the Site cleanup levels, SLR verbally requested to Ecology that the confirmational groundwater monitoring proceed on a quarterly basis and that the July 2022 sampling event be considered the first quarterly sampling event, with subsequent sampling events to be conducted in October 2022, January 2023, and April 2023. To support that request, SLR formally requested modifications to the confirmational groundwater monitoring program (SLR, 2022c). On October 10, 2022, Ecology agreed with the requested changes to the confirmational groundwater monitoring program as long as the groundwater COC concentrations remain below the Site cleanup levels (Ecology, 2022). The groundwater sample analytical results from the October 2022 quarterly monitoring event showed that none of the samples contained analyte concentrations greater than the Site cleanup levels (SLR, 2023).

2. GROUNDWATER SAMPLING EVENT

On January 30 and 31, 2023, SLR personnel collected groundwater samples from monitoring wells MW-07, MW-09, MW-12, MW-13, MW-15, MW-16, MW-17A, MW-18, MW-22, and PORT-MW-B. The locations of the groundwater monitoring wells that are included in the confirmational groundwater monitoring program are shown on Figure 2. Wells MW-15 and MW-22 are only sampled on an annual basis during the January events.

Prior to collecting the groundwater samples, SLR personnel measured the depths to groundwater in all of the monitoring wells at the Site by using an electronic water level meter. To collect each groundwater sample, SLR used the existing dedicated submersible bladder pumping system located in each well to purge approximately 1.0 to 2.0 gallons of water from the well. During the purging of each well, the pH, specific conductance, temperature, oxidation reduction potential (ORP), dissolved oxygen (DO), and turbidity of the extracted water were measured approximately every three minutes. A groundwater sample was collected from each of the wells following the stabilization of the field parameter measurements. The final field parameter readings prior to sample collection are presented in Table 1. The groundwater samples were collected in the appropriate sample containers provided by Apex Laboratories (Apex) of Tigard, Oregon. SLR documented the groundwater purging and sampling activities on Low-Flow Groundwater Sampling Field Data Sheets, which are presented in Appendix A.

In accordance with the CMP and the modifications to the confirmational groundwater monitoring program, all of the groundwater samples were submitted to Apex for analysis of the groundwater COCs for the Site (benzene, toluene, ethylbenzene, total xylenes, naphthalene, and n-hexane by EPA Method 8260D; 1,2-dibromoethane [EDB] by EPA Method 8260D SIM; and GRO by Ecology Method NWTPH-Gx).

The sampling purge water is stored in properly labeled 55-gallon drums at the subject property. The water will be transported to a licensed facility for off-site treatment and disposal.

2.1 GROUNDWATER MONITORING RESULTS

On January 30, 2023, the depths to groundwater in the monitoring wells ranged from 44.33 to 106.66 feet below the top of each well casing. The groundwater elevations in the wells ranged from 309.95 to 312.60 above mean sea level (MSL). The depth to groundwater measurements and groundwater elevations in the monitoring wells on January 30, 2023, are presented in Table 2.

Based on the groundwater elevations on January 30, 2023, the general groundwater flow direction beneath the subject property area was primarily to the west and southwest. Due to an anomalous depth to groundwater measurement, the groundwater elevation in MW-01 was not used to evaluate the groundwater flow direction. MW-01 is screened less than 3 feet below the high seasonal groundwater table and is frequently dry. The groundwater elevation in MW-10 was also not used to evaluate the groundwater flow direction because the top of the well screen was over 30 feet below the groundwater table. A groundwater elevation contour map of the data collected on January 30, 2023, is presented on Figure 3.

2.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

The groundwater sample analytical results showed that none of the samples contained analyte concentrations greater than the MTCA Method A or Method B cleanup levels. A Method B cleanup level was only used if a Method A cleanup level was not available for an analyte.

The groundwater samples collected from wells MW-07, MW-12 (as well as the duplicate sample from MW-12), MW-15, MW-16, MW-22, and PORT-MW-B contained at least one analyte concentration above the laboratory's method reporting limits (MRLs); however, the detected concentrations were below the MTCA Method A or Method B cleanup levels. The samples collected from wells MW-09, MW-13, MW-17A, and MW-18 did not contain any analyte concentrations greater than the MRLs. EDB was not detected at or above the laboratory's method detection limits (MDLs) in any of the groundwater samples, however, the MDLs exceeded the Method A cleanup level in the samples collected from MW-07, MW-12, MW-15, and MW-16.

The January 2023 groundwater sample analytical results are presented in Table 1, and the GRO and benzene concentrations are also presented on Figure 2. The groundwater sample analytical results from the January 2023 sampling event, as well as from the previous groundwater sampling events (groundwater COCs only), are presented in data tables and on trend plots in Appendix B. The laboratory report from the January 2023 sampling event is included in Appendix C.

3. DATA QUALITY ASSURANCE AND VALIDATION

Based on the results of a data validation review, the groundwater sample analytical data were acceptable without any data qualifications, except for the EDB results. Apex assigned an R-02 qualifier to the EDB concentrations in the samples from MW-7 and MW-16. Apex defined the R-02 qualifier as a raised method detection limit to account for interference from coeluting organic compounds present in each sample.

SLR collected an equipment blank sample for analysis, and a trip blank sample was also analyzed. The analytical results showed that the equipment blank and trip blank samples did not contain any analyte concentrations greater than the MRLs, and Apex did not apply any data qualifiers to those results. The analytical results of the duplicate sample (labeled MW-32-0122) collected from well MW-12 were within an acceptable range.

4. CONCLUSIONS

On January 30 and 31, 2023, SLR conducted a quarterly confirmational groundwater monitoring event at the SeaTac Development Site. The objectives of the confirmational groundwater monitoring program are to evaluate the potential rebound of contaminant concentrations after the deactivation of the IAS/SVE system in July 2020, and if there is minimal rebound, to demonstrate that the contaminant concentrations have been reduced to below the cleanup levels or to levels that will naturally attenuate to below the cleanup levels within a reasonable timeframe.

The groundwater sample analytical results from the January and July 2020 performance groundwater monitoring events showed that the IAS/SVE system operations had reduced the petroleum hydrocarbon concentrations beneath the subject property to below the Site cleanup levels, except for a GRO concentration (0.90 mg/L) at well MW-13 that exceeded the Method A cleanup level and a GRO concentration at well MW-07 that equaled the Method A cleanup level in July 2020 (SLR, 2020b). The groundwater sample analytical results from the four subsequent quarterly confirmational groundwater monitoring events in 2020 and 2021 showed that the groundwater COC concentrations at the Site were below the cleanup levels, except for localized areas of GRO concentrations (up to 3.57 mg/L) above the Method A cleanup level (SLR, 2020d; SLR, 2021a; SLR, 2021b; SLR, 2021c). The quarterly groundwater monitoring results showed that there was some localized rebound of GRO concentrations; however, the GRO concentrations were not at levels that justified the reactivation of the IAS/SVE system.

The groundwater sample analytical results from the first semiannual confirmational groundwater monitoring event in January 2022 showed that the groundwater COC concentrations at the Site were below the cleanup levels, except for a GRO concentration (0.83 mg/L) slightly above the Method A cleanup level in the sample from well MW-07 (SLR, 2022a). The groundwater sample analytical results from the July 2022 monitoring event showed that the groundwater COC concentrations in all of the samples were below the Site cleanup levels (SLR, 2022b). Based on the July 2022 groundwater sample analytical results, Ecology agreed that the confirmational groundwater monitoring could be conducted on a quarterly basis and that the July 2022 monitoring event could be considered the first quarterly monitoring event if the groundwater COC concentrations remain below the Site cleanup levels. The results of the second quarterly monitoring event in October 2022 (SLR, 2023) and this third quarterly monitoring event in January 2023 showed that the groundwater COC concentrations at the Site continue to be below the cleanup levels.

The groundwater sample analytical results from the confirmational groundwater monitoring program indicate initial localized rebound of the GRO concentrations near the northern end of the subject property; however, natural attenuation has subsequently reduced the GRO concentrations to below the Site cleanup levels. Also, the concentrations of the higher toxicity components of gasoline (BTEX, EDB, n-hexane, and naphthalene) have been consistently below the MTCA Method A or Method B cleanup levels since the IAS/SVE system was deactivated. Tables that show the groundwater COC concentrations over time and trend graphs that show the GRO and benzene concentrations over time are presented in Appendix B.

5. REFERENCES

- Golder Associates, Inc. 2011. *Attachment E, Compliance Monitoring Plan, Sea-Tac Development Site, SeaTac, Washington*. November 2.
- SLR International Corporation. 2019. *Performance Groundwater Monitoring Report – July 2019 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. October.
- SLR International Corporation. 2020a. *Performance Groundwater Monitoring Report – January 2020 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. March.
- SLR International Corporation. 2020b. *Performance Groundwater Monitoring Report – July 2020 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. September.
- SLR International Corporation. 2020c. *Request for Modifications to Confirmational Groundwater Monitoring Program, SeaTac Development Site (MasterPark Lot C Property), SeaTac, Washington*. September 23.
- SLR International Corporation. 2020d. *Confirmational Groundwater Monitoring Report – October 2020 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. November.
- SLR International Corporation. 2021a. *Confirmational Groundwater Monitoring Report – January 2021 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. February.
- SLR International Corporation. 2021b. *Confirmational Groundwater Monitoring Report – April 2021 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. June.
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- SLR International Corporation. 2022c. Email from Mike Staton of SLR to Vance Atkins of Ecology Re: Revised Table 1 of Compliance Monitoring Plan, SeaTac Development Site. October 7.
- SLR International Corporation. 2023. *Confirmational Groundwater Monitoring Report – October 2022 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. January.
- Washington Department of Ecology. 2020. Letter from Jerome Cruz of Ecology to Mike Staton of SLR Re: Request for Modifications to Confirmational Groundwater Monitoring Program, SeaTac Development Site (MasterPark Lot C), SeaTac, Washington. October 13.

Washington Department of Ecology. 2022. Email from Vance Atkins of Ecology to Mike Staton of SLR Re: Revised Table 1 of Compliance Monitoring Plan, SeaTac Development Site. October 10.

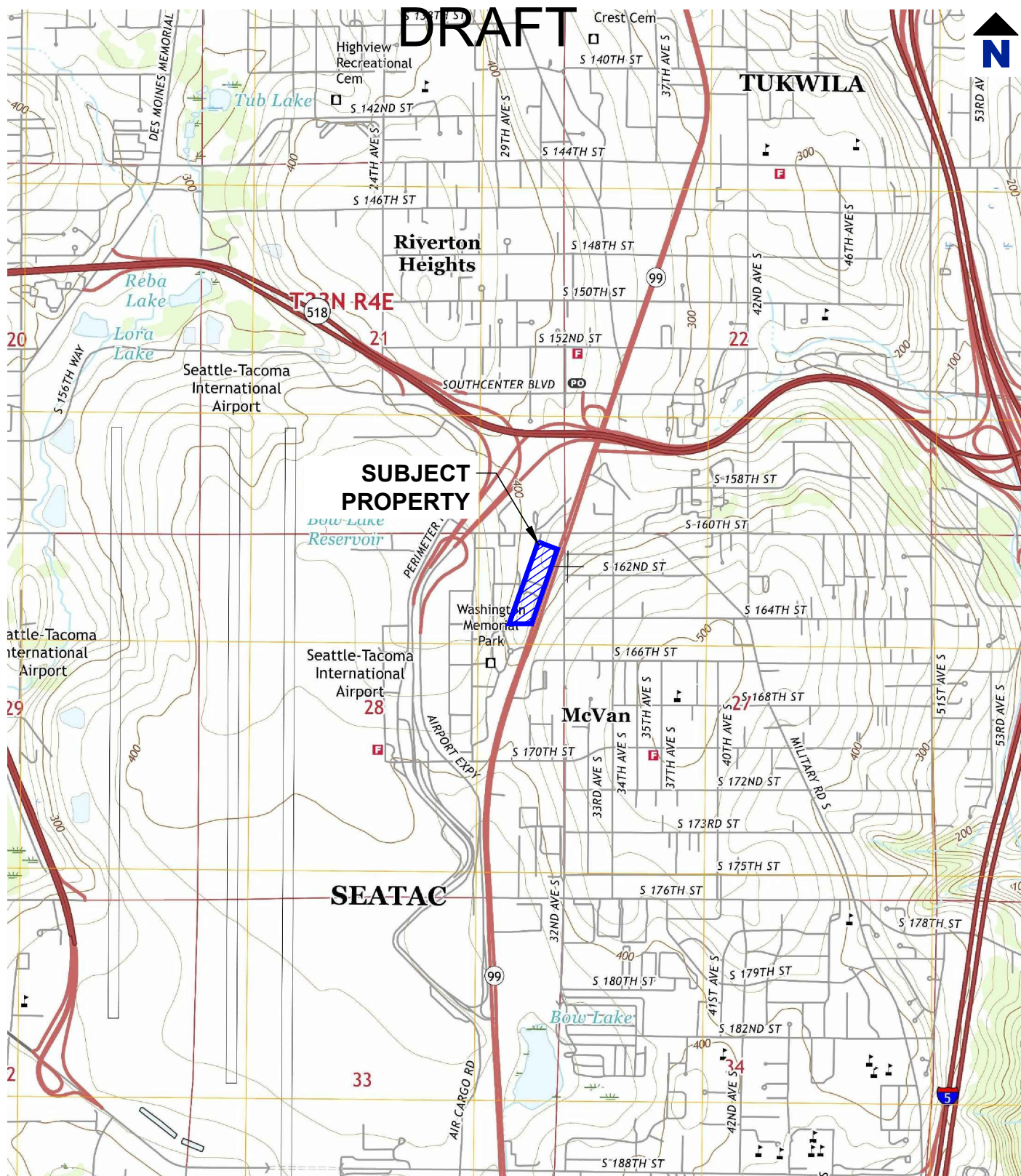
LIMITATIONS

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FIGURES

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SEATAC DEVELOPMENT SITE
16025 INTERNATIONAL BLVD
SEATAC, WASHINGTON

Drawing

SUBJECT PROPERTY LOCATION MAP

Date September 19, 2019

Scale AS SHOWN

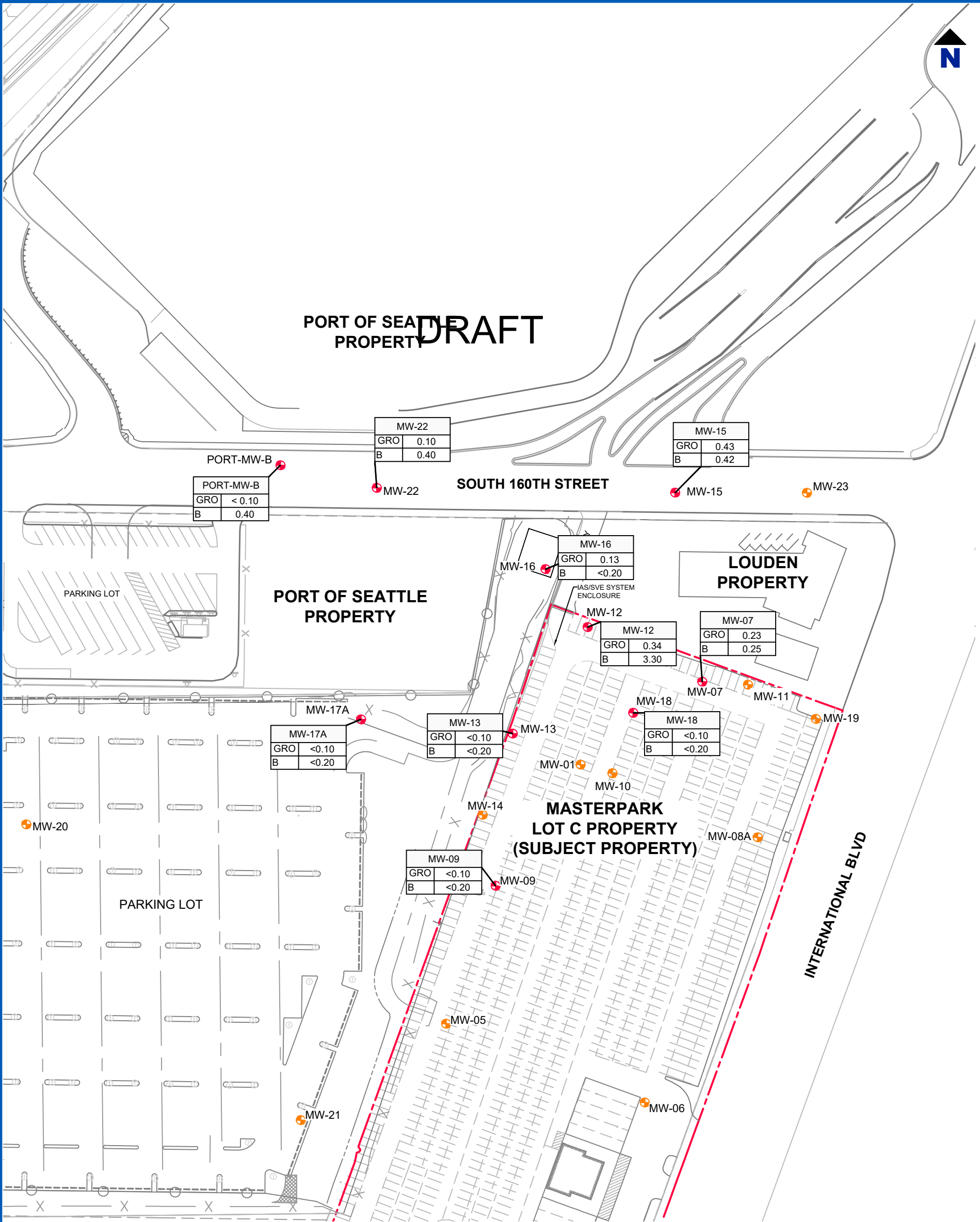
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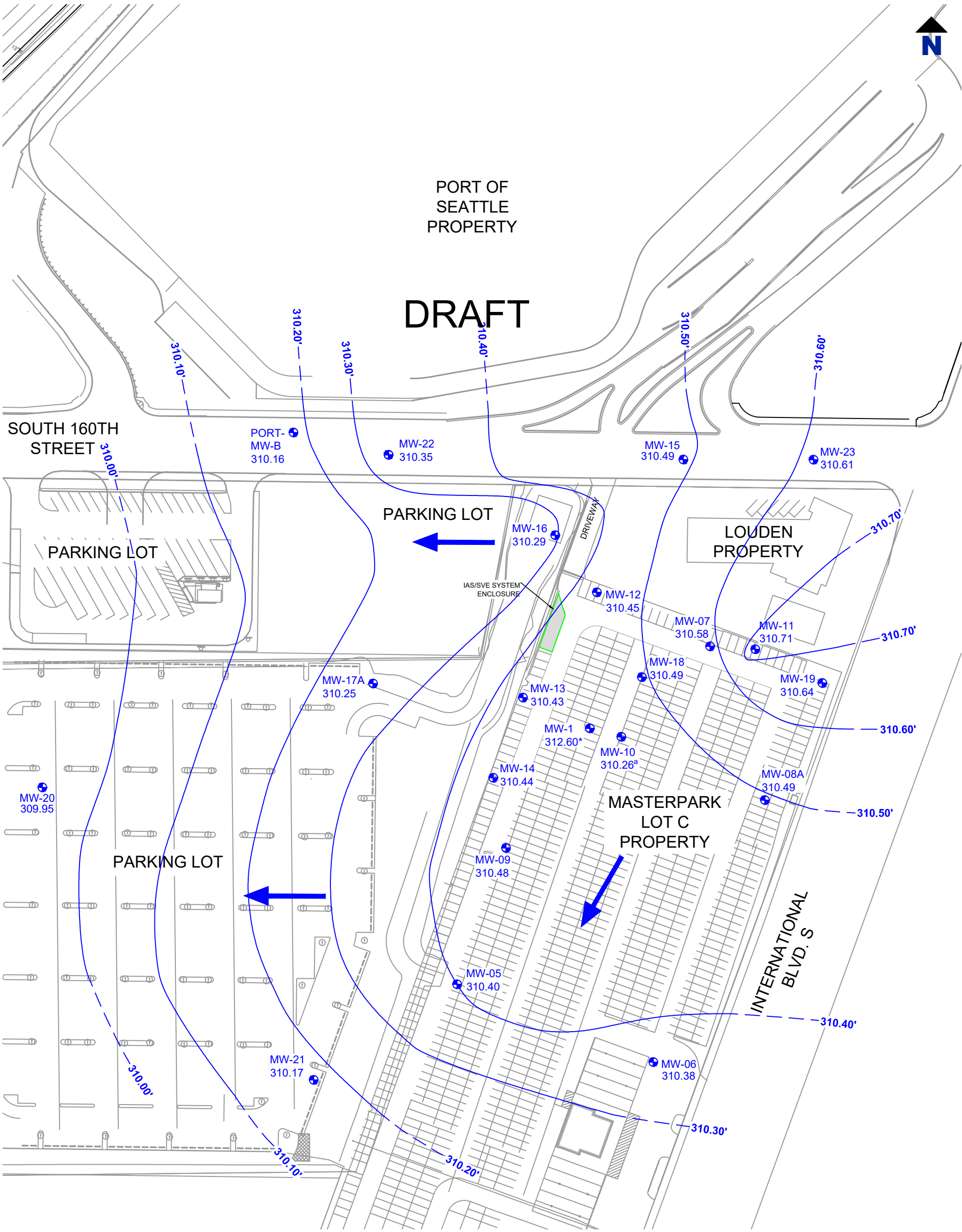
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1. BASEMAP BASED ON IAS AND SVE PIPING LAYOUT FIGURE (12/02/15) AND GROUNDWATER MONITORING LOCATIONS MAP (05/01/19) PRODUCED BY GOLDER ASSOCIATES, INC.
2. * = DUE TO AN ANOMALOUS DEPTH TO GROUNDWATER MEASUREMENT, THE GROUDWATER ELEVATION WAS NOT USED FOR CONTOURING.
3. a = SINCE WELL MW-10 IS SCREENED OVER 30 FEET BELOW THE GROUNDWATER TABLE, THE GROUNDWATER ELEVATION IN MW-10 WAS NOT USED FOR CONTOURING.

LEGEND

- MW-21  SITE MONITORING WELL LOCATION AND DESIGNATION
- 310.17 GROUNDWATER SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL) ON JANUARY 30, 2023
-  310.10' GROUNDWATER SURFACE ELEVATION CONTOUR LINE (IN FEET ABOVE MEAN SEA LEVEL)
-  GENERAL GROUNDWATER FLOW DIRECTION



SEATAC DEVELOPMENT SITE SEATAC, WASHINGTON

Drawing

GROUNDWATER ELEVATION CONTOUR MAP - JANUARY 30, 2023

Date February 27, 2023

Scale AS SHOWN

Fig. No.

File Name 02-03

Project No. 128.02207.00002

3

TABLES

Table 1
Groundwater Field Parameters and Sample Analytical Results for Groundwater COCs
January 2023 Sampling Event
SeaTac Development Site
SeaTac, Washington

Well ID	Date Sampled	Field Parameters							Analytical Data											
		Depth to Groundwater (feet)	pH	Temperature (°C)	Specific Conductance (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	GRO ^a (mg/L)	Benzene ^b (µg/L)	Toluene ^b (µg/L)	Ethylbenzene ^b (µg/L)	Total Xylenes ^b (µg/L)	EDB ^c (µg/L)	N-hexane ^b (µg/L)	Naphthalene ^b (µg/L)	DRO ^d (mg/L)	ORO ^d (mg/L)	DRO ^d after Silica Gel Cleanup (mg/L)	ORO ^d after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^e								0.8 ^f /1.0 ^g	5.0	1,000	700	1,000	0.01	480 ^h	160	0.5	0.5	0.5	0.5	
MW-07	01/30/23	48.11	6.43	14.6	172	1.30	128.3	2.11	0.23	0.25	<1.0	<0.50	<1.5	<0.025 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-09	01/31/23	51.65	6.35	12.1	170	3.00	127.6	2.75	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
MW-12	01/31/23	54.38	7.13	14.1	188	0.49	72.9	0.86	0.34	3.30	2.25	14.9	27.2	<0.020 ⁱ	<2.0	2.86	NA	NA	NA	NA
MW-12 Duplicate ^j	01/31/23	-	-	-	-	-	-	-	0.40	3.53	2.75	16.8	31.2	<0.020 ⁱ	<2.0	3.02	NA	NA	NA	NA
MW-13	01/31/23	54.99	6.58	13.4	225	4.04	128.9	1.15	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
MW-15	01/30/23	54.18	6.79	13.4	487	1.84	139.5	32.0	0.43	0.42	<1.0	0.51	<1.5	<0.020 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-16	01/31/23	67.34	6.75	12.0	184	0.86	105.2	1.22	0.13	<0.20	<1.0	<0.50	<1.5	<0.024 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-17A	01/31/23	84.19	6.55	12.7	139	5.30	173.3	1.23	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
MW-18	01/31/23	49.96	7.09	13.8	510	0.66	138.6	1.12	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
MW-22	01/30/23	82.96	7.72	12.4	204	0.76	57.3	2.17	0.10	0.40	<1.0	<0.50	<1.5	<0.010	<2.0	2.78	NA	NA	NA	NA
PORT-MW-B	01/30/23	89.67	7.48	11.9	211	1.43	20.4	114	<0.10	0.40	<1.0	1.17	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
Notes: mg/L = Milligrams per liter µg/L = Micrograms per liter µmhos/cm = Micromhos per centimeter NTU = Nephelometric turbidity unit °C = Degrees Celsius COCs = Contaminants of concern GRO = Gasoline-range organics DRO = Diesel-range organics ORO = Oil-range organics EDB = 1,2-dibromoethane NA = Not analyzed mV = Millivolts ^a Analyzed by Ecology Method NWTPH-Gx. ^b Analyzed by EPA Method 8260D. ^c Analyzed by EPA Method 8260D SIM. ^d Analyzed by Ecology Method NWTPH-Dx. ^e Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^f When benzene is present. ^g When benzene is not present. ^h Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (January 2023). ⁱ The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level. ^j Duplicate sample named MW-32-0123 and was collected from well MW-12.																				

DRAFT
 Table 2
Groundwater Monitoring Data - January 30, 2023
SeaTac Development Site
SeaTac, Washington

Well Number	Top of Casing Elevation ^a (feet)	Approximate Depth of Well Screen (feet bgs)	Date Measured	Depth to Groundwater (feet)	Groundwater Elevation (feet)
MW-01	361.38	41 to 51	01/30/23	48.78	312.60
MW-05	364.26	48 to 58	01/30/23	53.86	310.40
MW-06	369.68	50 to 60	01/30/23	59.30	310.38
MW-07	358.69	43.5 to 53.5	01/30/23	48.11	310.58
MW-08A	359.16	44 to 54	01/30/23	48.67	310.49
MW-09	362.13	47.5 to 57	01/30/23	51.65	310.48
MW-10	360.18	80 to 90	01/30/23	49.92	310.26
MW-11	357.53	42 to 57	01/30/23	46.82	310.71
MW-12	364.83	52 to 67	01/30/23	54.38	310.45
MW-13	365.42	50 to 65	01/30/23	54.99	310.43
MW-14	363.76	50 to 65	01/30/23	53.32	310.44
MW-15	364.67	50 to 65	01/30/23	54.18	310.49
MW-16	377.63	64 to 74	01/30/23	67.34	310.29
MW-17A	394.44	80 to 95	01/30/23	84.19	310.25
MW-18	360.45	47 to 62	01/30/23	49.96	310.49
MW-19	356.61	43 to 58	01/30/23	45.97	310.64
MW-20	416.61	103 to 113	01/30/23	106.66	309.95
MW-21	412.85	95 to 110	01/30/23	102.68	310.17
MW-22	393.31	80 to 95	01/30/23	82.96	310.35
MW-23	354.94	42.5 to 57.5	01/30/23	44.33	310.61
PORT-MW-B	399.83	79 to 99	01/30/23	89.67	310.16
Notes: NM = Not measured. ^a The top of well casing elevations were surveyed relative to mean seal level.					

APPENDIX A

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEETS

SLR [illegible]

SLR [illegible]

SLR [illegible]

SLR 

Project No. <u>128.02207.00003</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW-13</u>
Project Name: <u>SeaTac Development Site</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW-13-0123</u>
Location: <u>16025 International Blvd, SeaTac, WA</u>		QA Samples: _____	

Date Purged: <u>01-31-2023</u>	Start (2400hr): <u>1123</u>	End (2400hr): <u>1138</u>
Date Sampled: <u>01-31-2023</u>	Sample Time (2400hr): <u>1138</u>	

Casing Diameter: <u>2" X</u>	<u>3"</u>	<u>4"</u>	<u>5"</u>	<u>6"</u>	<u>8"</u>	Other _____
Casing Volume: (gallons per foot)	(<u>0.17</u>)	(<u>0.38</u>)	(<u>0.67</u>)	(<u>1.02</u>)	(<u>1.50</u>)	(<u>2.60</u>)

Total depth (feet) = <u>65.40</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>54.99</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1123</u>	<u>12.8</u>	<u>.241</u>	<u>-</u>	<u>10.19</u>	<u>6.58</u>	<u>128.8</u>	<u>3.20 NTU</u>	<u>clear</u>
<u>.25</u>	<u>1126</u>	<u>13.4</u>	<u>.244</u>	<u>-</u>	<u>4.80</u>	<u>6.44</u>	<u>130.0</u>	<u>2.59</u>	<u> </u>
<u>.50</u>	<u>1129</u>	<u>13.4</u>	<u>.232</u>	<u>-</u>	<u>4.28</u>	<u>6.41</u>	<u>130.9</u>	<u>2.90</u>	<u> </u>
<u>.75</u>	<u>1132</u>	<u>13.4</u>	<u>.228</u>	<u>-</u>	<u>4.00</u>	<u>6.59</u>	<u>130.7</u>	<u>1.86</u>	<u> </u>
<u>1</u>	<u>1135</u>	<u>13.4</u>	<u>.226</u>	<u>-</u>	<u>4.06</u>	<u>6.59</u>	<u>130.0</u>	<u>1.79</u>	<u> </u>
<u>1.25</u>	<u>1138</u>	<u>13.4</u>	<u>.225</u>	<u>-</u>	<u>4.04</u>	<u>6.58</u>	<u>128.9</u>	<u>1.15</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
☒ Well Wizard Bladder Pump ___ Bailer (disposable) ___ Active Extraction Well Pump ___ Bailer (PVC) ___ Submersible Pump ___ Bailer (Stainless Steel) ___ Peristaltic Pump ☒ Dedicated <u>tubing</u> Other: _____ Pump Intake Depth: <u>58.5</u> (feet)	___ 40mL VOA ___ mL HDPE w/ H2SO4 ☒ 40mL VOA w/ HCL _____ ___ mL amber glass _____ ___ mL amber glass w/ HCl _____ ___ mL HDPE _____ ___ mL HDPE w/ HNO3 _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: _____	

Signature: _____

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DRAFT



LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW- 16 116</u>
Project Name: <u>SeaTac Development Site</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW- 16 0123</u>
Location: <u>16025 International Blvd, SeaTac, WA</u>		QA Samples: _____	

Date Purged: <u>01-31</u> -2023	Start (2400hr): <u>953</u>	End (2400hr): <u>1011</u>
Date Sampled: <u>01-31</u> -2023	Sample Time (2400hr): <u>1011</u>	

Casing Diameter: 2" <u>X</u> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = <u>73.80</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>127.34</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (NTU) (Visual)	Color (Visual)
<u>0</u>	<u>953</u>	<u>10.3</u>	<u>0.166</u>	<u>—</u>	<u>14.55</u>	<u>7.25</u>	<u>146.7</u>	<u>1.54</u>	<u>Clear</u>
<u>0.25</u>	<u>956</u>	<u>11.6</u>	<u>0.173</u>	<u>—</u>	<u>6.52</u>	<u>7.00</u>	<u>142.3</u>	<u>2.95</u>	
<u>0.50</u>	<u>959</u>	<u>12.0</u>	<u>0.181</u>	<u>—</u>	<u>1.47</u>	<u>6.76</u>	<u>134.0</u>	<u>4.18</u>	
<u>0.75</u>	<u>1002</u>	<u>12.0</u>	<u>0.182</u>	<u>—</u>	<u>1.06</u>	<u>6.76</u>	<u>127.7</u>	<u>2.63</u>	
<u>1</u>	<u>1005</u>	<u>12.0</u>	<u>0.184</u>	<u>—</u>	<u>0.91</u>	<u>6.75</u>	<u>119.1</u>	<u>2.07</u>	
<u>1.25</u>	<u>1008</u>	<u>12.0</u>	<u>0.185</u>	<u>—</u>	<u>0.88</u>	<u>6.75</u>	<u>110.7</u>	<u>1.06</u>	
<u>1.50</u>	<u>1011</u>	<u>12.0</u>	<u>0.184</u>	<u>—</u>	<u>0.86</u>	<u>6.75</u>	<u>105.2</u>	<u>1.22</u>	

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
☒ Well Wizard Bladder Pump _____ Bailer (disposable) _____ Active Extraction Well Pump _____ Bailer (PVC) _____ Submersible Pump _____ Bailer (Stainless Steel) _____ Peristaltic Pump ☒ Dedicated <u>tubing</u> Other: _____ Pump Intake Depth: <u>71.2</u> (feet)	_____ 40mL VOA _____ mL HDPE w/ H2SO4 ☒ 40mL VOA w/ HCL _____ _____ mL amber glass _____ _____ mL amber glass w/ HCl _____ _____ mL HDPE _____ _____ mL HDPE w/ HNO3 _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: _____	

Signature: [Signature]
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SLR 

Project No.: 128.02207.00003	Purged By: EH	Well I.D.: MW-18
Project Name: SeaTac Development Site	Sampled By: EH	Sample I.D.: MW-18-0123
Location: 16025 International Blvd, SeaTac, WA		QA Samples:

Date Purged: 01-31-2023	Start (2400hr): 1249	End (2400hr): 1307
Date Sampled: 01-31-2023	Sample Time (2400hr): 1307	

Casing Diameter:	2"	3"	4"	5"	6"	8"	Other
X							
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)	()

Total depth (feet) = 61.25	Casing Volume (gal) = _____
Depth to water (feet) = 49.96	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
0	1249	12.6	.442	-	5.27	6.94	128.6	1.05	clear
.25	1252	13.4	.474	-	2.25	7.08	133.5	1.42	
.50	1255	13.8	.51	-	0.92	7.09	136.3	2.38	
.75	1258	13.8	.51	-	0.84	7.10	136.9	2.17	
1	1301	13.7	.51	-	0.77	7.08	137.5	1.73	
1.25	1304	13.8	.51	-	0.70	7.08	138.1	1.35	
1.50	1307	13.8	.51	-	0.66	7.09	138.6	1.12	↓

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
☒ Well Wizard Bladder Pump ___ Bailer (disposable) ___ Active Extraction Well Pump ___ Bailer (PVC) ___ Submersible Pump ___ Bailer (Stainless Steel) ___ Peristaltic Pump X Dedicated tubing Other: _____ Pump Intake Depth: 53.05 (feet)	___ 40mL VOA ___ mL HDPE w/ H2SO4 S 40mL VOA w/ HCL ___ ___ mL amber glass ___ ___ mL amber glass w/ HCl ___ ___ mL HDPE ___ ___ mL HDPE w/ HNO3 ___

Well Integrity: good Odor: none

Remarks: _____

Signature:

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SLR 

Project No. 128.02207.00003		Purged By: EH		Well I.D.: MW-22	
Project Name: SeaTac Development Site		Sampled By: EH		Sample I.D.: MW-22-0123	
Location: 16025 International Blvd, SeaTac, WA			QA Samples: _____		

Date Purged: 01-30-2023	Start (2400hr): 958	End (2400hr): 1019
Date Sampled: 01-30-2023	Sample Time (2400hr): 1019	

Casing Diameter: 2" <u>X</u>	3" _____	4" _____	5" _____	6" _____	8" _____	Other _____
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60) ()

Total depth (feet) = 88.74	Casing Volume (gal) = _____
Depth to water (feet) = 82.96	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual) ^{NTU}	Color (Visual)
0	958	11.7	.183	—	9.50	7.89	183.4	0.64	Clear
.25	1001	12.3	.204	—	4.07	7.75	176.4	10.2	↓
.50	1004	12.5	.213	—	1.49	7.81	167.5	5.83	
.75	1007	12.7	.213	—	1.12	7.79	159.2	4.07	
1	1010	12.4	.210	—	1.01	7.80	145.6	4.16	
1.25	1013	12.3	.207	—	0.82	7.75	103.3	2.85	
1.50	1016	12.5	.206	—	0.80	7.71	64.1	2.60	
1.75	1019	12.4	.204	—	0.76	7.72	57.3	2.17	

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
☒ Well Wizard Bladder Pump ☐ Bailer (disposable) ☐ Active Extraction Well Pump ☐ Bailer (PVC) ☐ Submersible Pump ☐ Bailer (Stainless Steel) ☐ Peristaltic Pump ☒ Dedicated <u>thing</u> Other: _____ Pump Intake Depth: <u>86.56</u> (feet)	☐ 40mL VOA ☐ mL HDPE w/ H2SO4 ☒ 40mL VOA w/ HCL _____ ☐ mL amber glass _____ ☐ mL amber glass w/ HCL _____ ☐ mL HDPE _____ ☐ mL HDPE w/ HNO3 _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: _____	

Signature: [Signature]

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SLR 

Project No. 128.02207.00003		Purged By: EH	Well I.D.: Port+MW- B
Project Name: SeaTac Development Site		Sampled By: EH	Sample I.D.: Port MW- B -0123
Location: 16025 International Blvd, SeaTac, WA		QA Samples:	

Date Purged: 01-30-2023	Start (2400hr): 1150	End (2400hr): 1214
Date Sampled: 01-30-2023	Sample Time (2400hr): 1214	

Casing Diameter: 2" X 3" 4" 5" 6" 8" Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = 99.15 Casing Volume (gal) = _____
Depth to water (feet) = 89.67 Minimum Purge (gal) = _____
Water column height (feet) = Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	NTPU Turbidity (Visual)	Color (Visual)
0	1150	10.8	.176	-	10.86	7.66	187.3	2.65	clear
.25	1153	11.8	.156	-	9.19	7.40	177.9	2.59	
.50	1156	11.7	.155	-	8.66	7.30	159.1	76.8	
.75	1159	12.0	.185	-	4.18	7.36	92.8	137	
1	1202	11.9	.209	-	2.16	7.49	50.2	151	
1.25	1205	11.7	.213	-	2.10	7.50	40.4	143	
1.50	1208	11.9	.214	-	1.70	7.52	30.0	135	
1.75	1211	11.9	.214	-	1.64	7.50	24.7	126	
2	1214	11.9	.211	-	1.43	7.48	20.4	114	

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
☒ Well Wizard Bladder Pump ☐ Bailer (disposable) ☐ Active Extraction Well Pump ☐ Bailer (PVC) ☐ Submersible Pump ☐ Bailer (Stainless Steel) ☐ Peristaltic Pump ☒ Dedicated tubing Other: _____ Pump Intake Depth: 93.72 (feet)	☐ 40mL VOA ☐ mL HDPE w/ H2SO4 ☒ 40mL VOA w/ HCL _____ ☐ mL amber glass _____ ☐ mL amber glass w/ HCl _____ ☐ mL HDPE _____ ☐ mL HDPE w/ HNO3 _____

Well Integrity: good Odor: none

Remarks: _____

Signature: _____

APPENDIX B

DATA TABLES AND TREND GRAPHS

Table B-1
Summary of Groundwater Sampling Results - Well MW-07
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
01/05/01	358.70	NM	NM	NM	NM	NM	NM	NM	80	470	7,700	2,000	11,200	NA	NA	NA	< 0.25	< 0.50	NA	NA
08/16/07	358.70	NM	NM	NM	NM	NM	NM	NM	68	500	3,200	1,600	8,690	NA	NA	NA	NA	NA	NA	NA
12/07/09	358.70	49.02	309.68	6.89	10.90	347	2.83	NM	46	520	5,600	1,300	6,800	0.03	220	420	NA	NA	NA	NA
03/18/10	358.70	48.69	310.01	6.61	13.30	354	1.41	5.18	26	230	1,100	360	4,630	0.01	160	210	NS	NS	NA	NA
02/13/14	358.69	47.72	310.97	6.56	14.3	131	0.35	3.87	29	25	110	180	2,022	< 3.8 ^e	190	220	11 J	< 0.20	NA	NA
05/29/14	358.69	47.65	311.04	6.65	16.4	379	0.13	2.84	27	14	80	190	1,811	< 1.5 ^e	140	210 B	11 J	< 0.20	NA	NA
09/11/14	358.69	47.95	310.74	6.73	16.5	373	0.35	2.28	36	17	81	260	2,110	< 0.028 ^e	280	300 B J	11	0.41 J	NA	NA
12/04/14	358.69	47.95	310.74	6.70	15.7	333	0.20	2.95	26	21	66	200	1,507	< 0.07 ^e	170	180	11 J	0.32 J	NA	NA
06/18/15	358.69	48.01	310.68	6.64	16.1	371	0.25	1.57	15 J	6.4	28 J	110 J	533 J	< 0.07 ^e	93 J	96 J	5.4	0.24 J	NA	NA
12/03/15	358.69	49.96	308.73	6.44	15.9	526	0.14	2.91	23	77	1,200	270	1,550	<0.020 ^e	160	69	4.9 J	< 0.20	NA	NA
05/04/16	358.69	49.05	309.64	6.68	16.0	640	1.02	4.57	12	30	500	170	970	<0.20 ^e	150	68 J	6.5 J	0.30 J	NA	NA
11/16/16	358.69	48.50	310.19	6.54	15.9	411	1.39	3.95	8.3	4.3	9.5	40	85	<0.20 ^e	11 J	37	2.4	<0.20	NA	NA
05/03/17	358.69	48.13	310.56	6.38	16.2	188	1.33	3.78	2.9	1.8	0.46	14	21	<0.20 ^e	1.9	32	1.4	0.20	NA	NA
11/14/17	358.69	47.15	311.54	6.39	15.1	278	0.98	NM	2.2	0.70	0.42	1.1	5.9	<0.20 ^e	0.3	11	1.6	0.44	NA	NA
01/18/18	358.69	46.75	311.94	6.21	14.7	270	0.23	2.15	1.9	1.0	0.67	2.0 J	7.3 J	<0.20 ^e	0.5	10	1.5	<0.20	NA	NA
03/09/18	358.69	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/16/18	358.69	46.10	312.59	6.15	15.2	248	0.25	2.25	1.8	0.41	0.35	1.1	3	<0.01	<0.20	6.1	0.78	<0.20	NA	NA
11/08/18	358.69	46.32	312.37	6.67	14.7	220	0.29	1.60	1.4	0.73	0.29	0.78	1.6	<0.01	0.42	4.0	0.74	<0.20	NA	NA
07/26/19	358.69	46.74	311.95	6.45	17.4	281	0.43	NM	0.73	0.30	0.27	0.75	1.1	<0.0030	0.29	1.6	0.17	<0.20	<0.10	<0.20
01/29/20	358.69	48.12	310.57	6.72	14.6	201	0.86	NM	0.75	0.39	8.1	2.3	11	<0.02 ^e	7.0	5.1	NA	NA	<0.081	<0.16
07/22/20	358.69	48.43	310.26	6.03	16.1	139	0.29	NM	0.80	<0.20	<1.0	2.2	12	<0.010	<2.0	2.9	NA	NA	NA	NA
10/19/20	358.69	48.79	309.90	6.32	15.6	205	1.73	6.59	1.74	0.84	2.50	9.69	15	<0.020 ^e	<0.20	5.8	NA	NA	NA	NA
01/18/21	358.69	49.03	309.66	6.32	14.1	266	1.40	2.73	3.55	2.66	33	41	200	<0.50 ^e	19	16	NA	NA	NA	NA
04/26/21	358.69	48.65	310.04	6.60	15.9	277	0.59	4.54	1.63	3.77	3.23	14	26	<0.01	5.3 J	7.8	NA	NA	NA	NA
07/26/21	358.69	48.78	309.91	6.53	16.1	237	0.26	2.66	2.35	3.17	7.36	23	77	<0.04 ^e	8.43	14	NA	NA	NA	NA
01/24/22	358.69	48.52	310.17	6.55	14.7	247	0.67	45.2	0.83	1.95	0.93 J	3.89	4.65	<0.046 ^e	<2.5	3.12	NA	NA	NA	NA
07/25/22	358.69	47.61	311.08	5.97	16.6	210	2.29	10.7	0.12	0.36	<1.0	<0.50	<1.50	<0.022 ^e	<2.0	<2.0	NA	NA	NA	NA
10/25/22	358.69	47.95	310.74	5.65	15.3	179	0.68	3.7	0.26	0.40	<1.0	0.61	<1.5	<0.022e	<2.0	<2.0	NA	NA	NA	NA
01/30/23	358.69	48.11	310.58	6.43	14.6	172	1.30	2.11	0.23	0.25	<1.0	<0.50	<1.5	<0.025 ^e	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-2
Summary of Groundwater Sampling Results - Well MW-09
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/l)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
01/05/01	362.14	NM	NM	NM	NM	NM	NM	NM	90	1,900	1,200	1,800	9,700	NA	NA	NA	< 0.25	< 0.50	NA	NA
08/16/07	362.14	NM	NM	NM	NM	NM	NM	NM	34	280	230	750	3,270	NA	NA	NA	NA	NA	NA	NA
05/19/09	362.14	52.25	309.89	6.17	15.6	290	1.86	2.86	37	240	220	810	2,910	NA	NA	NA	NA	NA	NA	NA
12/07/09	362.14	52.67	309.47	6.52	10.7	306	0.43	NM	19	190	33	730	1,927	0.01	83	260	NA	NA	NA	NA
03/19/10	362.14	52.30	309.84	6.19	14.2	294	0.13	7.18	16	170	65	400	1,434	0.016	100	160	NS	NS	NA	NA
02/12/14	362.13	51.45	310.68	6.49	12.6	99.5	0.28	3.10	7.5	30	8.1	150	98	< 0.080 ^e	16	120	1.6 J	< 0.20	NA	NA
05/29/14	362.13	51.41	310.72	6.44	15.0	295	0.14	1.01	7.8	32	9.4	170	112	< 0.37 ^e	5.6	92 B	2.3 J	< 0.20	NA	NA
09/10/14	362.13	NM	NM	6.49	15.7	310	0.20	3.85	5.6	17	4.6	100	47	< 0.01	< 0.20	74	2.8	< 0.20	NA	NA
12/03/14	362.13	51.68	310.45	6.47	13.6	307	0.18	2.37	4.1	14	2.8	76	8.8	< 0.07 ^e	< 0.20	44	1.9	< 0.20	NA	NA
06/17/15	362.13	51.67	310.46	6.48	15.1	331	0.18	0.75	1.7	7.2	1.3	40	1.6	< 0.07 ^e	< 0.20	18	1.5	< 0.20	NA	NA
12/03/15	362.13	NM	NM	6.37	14.1	477	0.96	3.91	2.2 J	8.4	1.5 J	73	1.5 J	< 0.07 ^e	< 0.20	5.7	1.0 J	< 0.20	NA	NA
05/03/16	362.13	NM	NM	6.51	18.3	221	4.68	1.08	<0.10	0.15 J	<0.20	0.71	<0.40	<0.20 ^e	<0.20	<0.50	0.22 J	<0.20	NA	NA
11/15/16	362.13	52.15	309.98	5.94	14.5	234	1.41	0.80	<0.10	0.23	0.23	0.56	0.32	<0.20 ^e	<0.20	<0.50	0.20	<0.20	NA	NA
05/03/17	362.13	NM	NM	5.94	15.5	165	3.09	1.43	<0.10	0.23	0.050 J	0.42	<0.40	<0.20 ^e	<0.20	<0.50	0.28	<0.20	NA	NA
11/14/17	362.13	50.74	311.39	5.98	13.9	211	2.14	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.020 ^e	<0.20	<0.50	0.22	<0.20	NA	NA
01/16/18	362.13	50.33	311.80	5.94	13.6	202	1.10	1.02	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.26	<0.20	NA	NA
03/09/18	362.13	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	362.13	49.68	312.45	5.86	15.0	193	0.67	0.61	<0.10	0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	0.34	<0.20	NA	NA
11/07/18	362.13	49.86	312.27	6.28	13.8	203	0.32	0.25	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	0.28	<0.20	NA	NA
07/29/19	362.13	50.33	311.80	6.32	15.5	285	0.50	NM	<0.10	0.20	<0.20	<0.20	<0.60	<0.0030	<0.20	<0.50	0.11	<0.20	<0.10	<0.20
01/30/20	362.13	51.45	310.68	6.40	12.7	249	0.77	NM	<0.10	0.54	<0.50	<0.25	<0.75	<0.20 ^e	<1.0	<1.0	NA	NA	NA	NA
01/25/22	362.13	52.05	310.08	7.07	12.5	285	4.23	6.51	<0.05	<0.10	<0.50	<0.25	<0.75	<0.010	<2.50	<1.0	NA	NA	NA	NA
07/25/22	362.13	51.19	310.94	5.67	18.1	175	3.15	1.25	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	362.13	51.49	310.64	5.64	14.0	157	2.76	1.46	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	362.13	51.65	310.48	6.35	12.1	170	3.00	2.75	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured mg/L = Milligrams per liter µg/L = Micrograms per liter µmhos/cm = Micromhos per centimeter µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-3
Summary of Groundwater Sampling Results - Well MW-12
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/16/07	364.88	NM	NM	NM	NM	NM	NM	NM	92	710	7,600	1,800	11,000	NA	NA	NA	NA	NA	NA	NA
05/21/09	364.88	54.99	309.87	6.43	17.8	416	0.19	33.7	110	1,600	11,000	2,100	10,000	0.70	< 500 ^e	580	NA	NA	NA	NA
12/07/09	364.88	55.29	309.59	7.58	12.0	452	0.06	NM	38	390	2,600	1,200	4,990	0.21	110	540	NA	NA	NA	NA
03/15/10	364.88	54.99	309.89	6.38	14.5	472	0.03	40.8	36	230	2,400	1,300	5,140	0.16	210	520	NS	NS	NS	NS
02/13/14	364.83	55.02	309.81	7.76	14.1	125	10.50	3.43	8.6	79	410	79	970	< 3.8 ^e	< 10	25	1.1 J	< 0.20	NA	NA
05/29/14	364.83	51.58	313.25	7.87	16.7	252	11.77	5.99	0.12	2.0	4.3	1.6	4.2	< 0.070 ^e	< 0.20	< 0.50	0.34 J	< 0.20	NA	NA
09/11/14	364.83	54.87	309.96	8.04	18.1	255	11.80	38.8	0.11	2.5	2.6	1.5	5.3	< 0.010	0.78	0.53 B J	0.35	< 0.20	NA	NA
12/04/14	364.83	54.87	309.96	8.04	15.1	258	11.51	153	< 0.10	< 0.25	< 0.25	0.73	6.0	< 0.070 ^e	0.18 J	0.68	0.20	< 0.20	NA	NA
06/18/15	364.83	NM	NM	8.09	16.3	208	9.90	2.44	< 0.25	< 0.20	< 0.20	0.10 J	2.1	< 0.070 ^e	0.26	< 0.50	0.45	< 0.20	NA	NA
12/03/15	364.83	56.74	308.09	NM	NM	NM	NM	NM	< 0.25	< 0.20	< 0.20	< 0.20	<0.40	<0.020 ^e	< 0.20	< 0.50	0.29	< 0.20	NA	NA
05/04/16	364.83	55.53	309.30	7.68	15.1	226	7.72	3.48	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.18 J	<0.20	NA	NA
11/16/16	364.83	55.20	309.63	7.84	14.9	199	8.45	13.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.16	<0.20	NA	NA
05/03/17	364.83	59.02	305.81	7.53	15.9	80	8.01	4.96	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.89	<0.22	NA	NA
11/15/17	364.83	53.37	311.46	7.69	14.9	301	0.99	18.9	2.23	1.75	17.8	10.6	113	<0.20 ^e	29	33	1.0	0.30	NA	NA
01/18/18	364.83	53.13	311.70	7.29	14.4	314	0.35	30.1	2.20	1.72	11.5	25.6	90	<0.20 ^e	29	30	1.6	<0.20	NA	NA
03/09/18	364.83	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/16/18	364.83	52.31	312.52	7.06	15.3	374	0.27	3.02	2.82	17	2.05	23.8	43.0	<0.010	26	19	2.9	<0.20	NA	NA
11/08/18	364.83	52.55	312.28	7.98	14.7	354	0.36	6.60	3.61	26	2.48	24.3	25.0	<0.010	48 J	17	<0.10	<0.20	NA	NA
07/29/19	364.83	53.01	311.82	7.28	16.0	455	0.89	NM	2.29	8.2	2.90	16.0	25.0	<0.0030	8.4	14	1.85	<0.20	<0.10	<0.20
01/29/20	364.83	63.90	300.93	7.18	12.6	10	13.47	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	<0.078	<0.16
07/22/20	364.83	54.60	310.23	6.36	15.2	185	0.24	NM	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/19/20	364.83	54.97	309.86	6.85	15.5	129	1.58	2.87	0.13	<0.20	<1.0	<0.50	6.16	<0.010	2.05	<4.0	NA	NA	NA	NA
01/18/21	364.83	55.23	309.60	6.28	14.3	68	0.48	5.04	0.48	0.37	1.97	3.56	40.3	<0.010	9.68	9.24	NA	NA	NA	NA
04/26/21	364.83	54.85	309.98	7.01	15.1	363	0.28	3.25	0.97	0.61	8.84	42.9	66.8	<0.010	21 J	22.4	NA	NA	NA	NA
07/26/21	364.83	55.05	309.78	7.23	15.8	278	0.24	1.01	3.57	1.95	13.9	114.0	378	<0.020 ^e	58	72.2	NA	NA	NA	NA
01/24/22	364.83	54.73	310.10	7.20	14.4	819	0.20	4.75	0.31	4.21	1.70	11.6	28.3	<0.020 ^e	<2.5	3.22	NA	NA	NA	NA
07/26/22	364.83	53.89	310.94	6.57	16.1	251	2.19	1.52	0.51	1.03	4.59	28.7	62.9	<0.010	2.6	5.80	NA	NA	NA	NA
10/25/22	364.83	54.23	310.60	5.77	13.1	17	8.47	8.09	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	364.83	54.38	310.45	7.13	14.1	188	0.49	0.86	0.34	3.30	2.25	14.9	27.2	<0.020 ^e	<2.0	2.86	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-4
Summary of Groundwater Sampling Results - Well MW-13
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/16/07	365.42	NM	NM	NM	NM	NM	NM	NM	92	180	5,600	2,100	12,600	NA	NA	NA	NA	NA	NA	NA
05/20/09	365.42	55.51	309.91	6.29	18.8	474	1.13	4.8	76	51	1,400	2,100	11,000	0.067	< 250	640	NA	NA	NA	NA
12/07/09	365.42	55.83	309.59	6.44	12.3	429	0.18	NM	31	20	310	870	4,570	0.054	100	500	NA	NA	NA	NA
03/19/10	365.42	55.66	309.76	6.28	12.8	271	0.16	72.1	33	14	230	890	4,500	0.029	130	410	NS	NS	NS	NS
02/12/14	365.42	54.35	311.07	6.57	13.2	73.3	1.41	4.28	14	< 0.25	3.9	240	2,070	< 0.080 ^e	< 0.20	33	1.4 J	< 0.20	NA	NA
05/29/14	365.42	55.62	309.80	6.84	14.7	182	10.59	4.24	0.14	< 0.25	< 0.25	0.85	19	< 0.070 ^e	0.11 J	< 0.50	0.32	< 0.20	NA	NA
09/10/14	365.42	54.86	310.56	7.06	14.9	137	11.06	2.41	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.01	< 0.20	< 0.50	0.29	< 0.20	NA	NA
12/04/14	365.42	54.86	310.56	7.06	13.9	163	10.10	2.32	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^e	< 0.20	< 0.50	0.31	< 0.20	NA	NA
06/18/15	365.42	54.70	310.72	7.13	14.7	174	10.71	1.32	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.070 ^e	< 0.20	0.61	0.27	< 0.20	NA	NA
12/02/15	365.42	56.43	308.99	7.27	14.2	164	10.20	0.90	< 0.25	< 0.20	< 0.20	0.23	1.1 J	<0.020 ^e	< 0.20	< 0.50	0.26	< 0.20	NA	NA
05/03/16	365.42	56.30	309.12	7.79	15.8	194	14.18	1.14	<0.10	<0.20	<0.20	<0.20	0.44	<0.20 ^e	<0.20	<0.50	0.12 J	<0.20	NA	NA
11/15/16	365.42	55.81	309.61	7.25	14.1	195	10.64	0.73	<0.10	<0.20	<0.20	<0.20	0.46	<0.20 ^e	<0.20	<0.50	0.19	<0.20	NA	NA
05/03/17	365.42	55.14	310.28	7.03	14.5	116	10.71	1.45	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.18	<0.20	NA	NA
11/14/17	365.42	54.05	311.37	6.75	13.6	136	1.72	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	0.13	<0.20	NA	NA
01/16/18	365.42	53.62	311.80	6.93	13.4	159	0.85	2.02	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	365.42	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	365.42	52.96	312.46	6.43	14.1	120	1.87	1.14	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
11/07/18	365.42	53.16	312.26	7.10	13.6	141	1.00	0.64	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
07/29/19	365.42	53.59	311.83	6.83	17.0	212	1.85	NM	<0.10	0.070 J	<0.20	<0.20	<0.60	<0.0030	<0.20	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	365.42	54.92	310.50	7.10	12.9	215	3.28	NM	<0.10	0.15 J	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/22/20	365.42	55.19	310.23	5.75	14.4	238	0.99	NM	0.90	0.34	<1.0	0.74	<1.50	<0.20 ^e	5.8	4.6	NA	NA	NA	NA
10/19/20	365.42	55.67	309.75	6.72	14.1	274	2.04	2.17	0.53	0.21	<1.0	<0.50	<1.50	<0.20 ^e	<2.0	<2.0	NA	NA	NA	NA
01/18/21	365.42	55.85	309.57	6.56	13.3	277	1.31	0.49	0.53	0.22	1.23	6.58	18.1	<0.010	<2.0	4.7	NA	NA	NA	NA
04/26/21	365.42	55.44	309.98	6.85	14.3	217	6.18	1.69	<0.10	<0.20	<1.0	<0.50	3.73	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	365.42	55.65	309.77	6.92	14.7	204	5.01	0.68	<0.05	<0.10	<0.50	<0.25	<0.75	<0.020 ^e	<2.0	<2.0	NA	NA	NA	NA
01/25/22	365.42	55.30	310.12	6.60	13.5	271	2.91	0.51	<0.05	<0.10	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
07/26/22	365.42	54.47	310.95	6.18	15.1	335	3.58	3.23	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	365.42	54.82	310.60	6.07	14.1	287	1.81	4.04	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	365.42	54.99	310.43	6.58	13.4	225	4.04	1.15	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-5
Summary of Groundwater Sampling Results - Well MW-15
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/01/07	364.67	54.19	310.48	NM	NM	NM	NM	NM	10	18	16	350	418	NA	NA	NA	0.44	NA	NA	NA
05/19/09	364.67	54.76	309.91	6.34	15.2	552	1.58	> 1,000	7.80	9.90	3.4	200	74	NA	NA	NA	NA	NA	NA	NA
12/07/09	364.67	55.05	309.62	6.61	13.6	484	0.26	NM	5.90	21	<4.0	420	49	<0.0096	6.3	150	NA	NA	NA	NA
03/16/10	364.67	54.83	309.84	6.44	12.9	565	0.18	21.0	5.40	17	2.0	310	59	<0.0096	28	120	NA	NA	NA	NA
11/08/18	364.67	52.40	312.27	7.18	14.0	290	2.49	NM	0.82	0.48	0.19 J	1.8	0.24 J	NA	NA	NA	1.0	<0.20	NA	NA
01/18/21	364.67	54.80	309.87	6.58	13.9	493	0.92	36.6	0.29	0.60	<1.0	0.71	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/24/22	364.67	54.54	310.13	6.64	13.7	542	0.72	3.5	0.10	0.19	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
01/31/23	365.42	54.18	311.24	6.58	13.4	225	4.04	32.00	0.43	0.42	<1.0	0.5	<1.5	<0.020 ^e	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-6
Summary of Groundwater Sampling Results - Well MW-16
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data									
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5
11/13/07	376.36	65.95	310.41	--	--	--	--	--	26	160	320	830	1,733	NA	NA	NA	NA	NA
05/22/09	376.36	66.56	309.80	6.33	15.4	440	0.35	3.97	28	180	67	1,200	1,800	<0.10 ^e	240	350	NA	NA
12/07/09	376.36	66.82	309.54	6.50	12.7	473	0.25	NM	10	69	67	580	490	0.053	66	230	NA	NA
03/17/10	376.36	66.62	309.74	6.40	11.7	446	0.22	5.14	6.60	51	15	430	292	0.044	38	170	NA	NA
07/29/19	377.63	65.95	311.68	6.57	15.6	184	0.45	NM	1.73	0.64	0.32	0.45	0.48 J	<0.0030	4.13	1.0	<0.10	<0.20
10/19/20	377.63	68.02	309.61	6.55	13.4	237	2.26	2.54	0.19	0.29	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA
01/18/21	377.63	68.21	309.42	6.37	13.3	248	0.58	1.08	0.41	0.22	<1.0	<0.50	<1.5	<0.010	3.43	<2.0	NA	NA
04/26/21	377.63	67.82	309.81	6.72	14.1	184	1.31	2.13	0.35	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA
07/26/21	377.63	68.02	309.61	6.79	15.8	150	0.90	0.49	0.080 J	0.12 J	<0.50	<0.25	<0.75	<0.040 ^e	<2.0	<2.0	NA	NA
01/24/22	377.63	67.68	309.95	6.88	12.7	147	1.30	0.81	<0.050	<0.10	<0.50	<0.25	<0.75	<0.020 ^e	<2.5	<1.0	NA	NA
07/25/22	377.63	66.81	310.82	6.38	14.8	143	1.35	1.32	<0.10	<0.20	<1.0	<0.50	<1.5	<0.020e	<2.0	<2.0	NA	NA
10/26/22	377.63	67.15	310.48	6.05	13.6	199	3.78	0.71	0.18	<0.20	<1.0	<0.50	<1.5	<0.020e	<2.0	<2.0	NA	NA
01/31/23	377.63	67.34	310.29	6.75	12.0	184	0.86	1.22	0.13	<0.20	<1.0	<0.50	<1.5	<0.020 ^e	<2.0	<2.0	NA	NA

Notes:

Values in bold and red exceed MTCA Method A Cleanup Levels.

NS = Not sampled

NM = Not measured

NA = Not analyzed

µg/L = Micrograms per liter

µg/L = Micrograms per liter

NTU = Nephelometric turbidity unit

µmhos/cm = Micromhos per centimeter

°C = Degrees Celsius

J = Laboratory estimated value

ORO = Oil-range organics

ORO = Oil-range organics

GRO = Gasoline-range organics

-- = Not available

^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.

^b When benzene is present.

^c When benzene is not present.

^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).

^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Table B-7
Summary of Groundwater Sampling Results - Well MW-17A
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/13/07	385.81	75.60	310.21	NM	NM	NM	NM	NM	17	1.0	5.2	45	507	NA	NA	NA	7.3	< 0.50	NA	NA
05/28/09	385.81	76.17	309.64	6.23	18.2	183.9	0.37	4.9	6.3	0.70	0.6	13	96	< 0.20 ^g	< 5.0	150	NA	NA	NA	NA
12/07/09	385.81	76.49	309.32	6.46	10	166	0.13	NM	4.5	< 4.0	7.0	8.8	56	< 0.0095	< 4.0	140	NA	NA	NA	NA
03/17/10	385.81	76.29	309.52	6.51	9.3	145	0.52	142	1.7	< 1.0	< 1.0	4.0	27	< 0.0095	< 1.0	63	NS	NS	NS	NS
02/11/14	394.00 ^e	83.80	310.20 ^f	6.36	11.3	82.5	1.06	137	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.080 ^g	< 0.20	0.74	< 0.10	< 0.20	NA	NA
05/29/14	394.00 ^e	84.00	310.00 ^f	6.22	12.2	175	2.06	39.7	< 0.10	0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	0.62 J	< 0.10	< 0.20	NA	NA
09/10/14	394.00 ^e	84.18	309.82 ^f	6.28	12.4	162	1.42	18.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	0.64 J	< 0.10	< 0.20	NA	NA
12/05/14	394.00 ^e	84.18	309.82 ^f	6.42	11.7	167	1.09	31.8	< 0.10 J	0.54 J	< 0.25 J	< 0.25 J	0.63 J	< 0.070 ^g	< 0.20 J	2.8	< 0.10	< 0.20	NA	NA
06/17/15	394.00 ^e	84.16	309.84 ^f	6.29	12.9	158	3.13	29.6	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/18/15	394.00 ^e	85.95	308.05 ^f	6.57	11.8	127	0.20	23.7	0.050 J	0.75	< 0.20	0.080 J	< 0.40	< 0.020 ^e	< 0.20	0.98 J	< 0.10	< 0.20	NA	NA
05/03/16	394.00 ^e	85.21	308.79 ^f	6.51	13.1	132	4.60	8.41	< 0.10	0.33	< 0.20	< 0.20	< 0.40	< 0.20 ^g	0.11 J	0.71 J	< 0.10	< 0.20	NA	NA
11/15/16	394.00 ^e	84.57	309.43 ^f	6.46	12.6	122	3.76	10.2	< 0.10	0.14 J	< 0.20	< 0.20	< 0.40	< 0.20 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/03/17	394.00 ^e	84.24	309.76 ^f	6.08	12.4	76	7.25	7.57	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
11/15/17	394.00 ^e	83.17	310.83 ^f	6.62	12.1	105	7.05	NM	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20 ^g	< 0.20	0.54	< 0.10	< 0.20	NA	NA
01/16/18	394.00 ^e	82.95	311.05 ^f	6.27	12.0	111	8.55	4.2	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.20 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
03/09/18	394.00 ^e	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	394.00 ^e	82.21	311.79 ^f	6.14	12.9	106	8.57	1.4	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.010	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
11/08/18	394.00 ^e	82.49	311.51 ^f	6.48	12.3	116	8.20	3.4	< 0.10	< 0.20	< 0.20	< 0.20	< 0.40	< 0.010	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
07/29/19	394.00 ^e	82.67	311.33 ^f	6.35	15.4	175	6.90	NM	< 0.10	< 0.20	< 0.20	< 0.20	< 0.60	< 0.0030	0.10 J	< 0.50	< 0.10	< 0.20	< 0.10	< 0.20
01/30/20	394.44	84.14	310.30	6.38	12.1	161	5.74	NM	< 0.10	< 0.10	< 0.50	< 0.25	< 0.75	< 0.010	< 1.0	< 1.0	NA	NA	NA	NA
07/21/20	394.44	84.35	310.09	5.35	13.7	168	1.99	NM	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
10/19/20	394.44	84.93	309.51	5.86	14.3	182	3.02	13.2	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
01/18/21	394.44	85.14	309.30	6.23	12.3	179	1.15	1.7	< 0.10	0.49	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
04/26/21	394.44	84.69	309.75	6.29	13.3	180	3.98	94.8	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
07/26/21	394.44	84.85	309.59	6.34	16.1	162	3.99	38.1	< 0.050	< 0.10	< 0.50	< 0.25	< 0.75	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
01/24/22	394.44	84.68	309.76	6.70	12.4	220	1.50	12.9	< 0.050	< 0.10	< 0.50	< 0.25	< 0.75	< 0.010	< 2.5	< 1.0	NA	NA	NA	NA
07/25/22	394.44	83.38	311.06	6.12	14.0	189	4.00	33.5	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
10/26/22	394.44	83.99	310.45	5.74	13.3	127	6.64	1.5	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
01/31/23	394.44	84.19	310.25	6.55	12.7	139	5.30	1.23	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA

Notes:

Values in bold and red exceed MTCA Method A Cleanup Levels.

NS = Not sampled

NM = Not measured

NA = Not analyzed

mg/L = Milligrams per liter

µg/L = Micrograms per liter

NTU = Nephelometric turbidity unit

µmhos/cm = Micromhos per centimeter

°C = Degrees Celsius

J = Laboratory estimated value

DRO = Diesel-range organics

ORO = Oil-range organics

GRO = Gasoline-range organics

EDB = 1,2-dibromoethane

^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.

^b When benzene is present.

^c When benzene is not present.

^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022).

^e Top of casing elevation was not surveyed; elevation was estimated by Golder Associates, Inc.

^f Estimated elevation.

^g The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Table B-8
Summary of Groundwater Sampling Results - Well MW-18
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
11/28/07	360.45	52.50	307.95	NM	NM	NM	NM	NM	79	2,900	7,500	1,600	6,290	NA	NA	NA	0.66	< 0.50 ^e	NA	NA
05/21/09	360.45	54.53	305.92	6.71	17.4	494	0.11	4.58	78	3,100	7,600	2,200	9,600	1.4	500	460	NA	NA	NA	NA
12/07/09	360.45	50.85	309.60	6.80	12.4	587	0.28	NM	44	2,200	5,400	1,600	6,690	1.9	180	380	NA	NA	NA	NA
03/18/10	360.45	50.58	309.87	6.69	14.2	586	0.11	5.39	52	2,600	6,000	1,700	6,690	2.5	350	420	NS	NS	NS	NS
02/12/14	360.45	49.01	311.44	7.62	13.8	175	8.11	2.89	1.0	27	13	17	91	< 0.080 ^e	1.1	4.0	0.77 J	<0.20	NA	NA
05/29/14	360.45	49.75	310.70	7.98	15.2	369	10.60	7.95	0.14	6.6	1.5	4.7	9.2	< 0.070 ^e	0.64	0.84 J+	0.33 J	<0.20	NA	NA
09/11/14	360.45	49.83	310.62	8.23	15.2	498	11.23	13.1	< 0.10	0.72	0.27	0.40	0.72	< 0.010	< 0.20	< 0.50	0.14	< 0.20	NA	NA
12/04/14	360.45	49.83	310.62	7.84	14.4	470	10.78	81.6	< 0.10	0.69	< 0.25	0.63	0.93	< 0.070 ^e	0.10 J	< 0.50	0.24	< 0.20	NA	NA
06/18/15	360.45	49.51	310.94	8.05	15.2	515	10.89	49.6	< 0.25	0.67	0.54	0.24	1.1	< 0.070 ^e	< 0.20	< 0.50	0.38	< 0.20	NA	NA
12/03/15	360.45	NM	NM	8.28	14.8	455	10.21	14.6	< 0.25	0.57	4.8	0.34	9.8	<0.020 ^e	0.25	0.67	0.13	< 0.20	NA	NA
05/04/16	360.45	51.12	309.33	7.27	14.8	513	4.53	4.77	0.22	8.0	5.5	8.2	29	<0.20 ^e	1.5	1.5 J	0.37 J	<0.20	NA	NA
11/16/16	360.45	50.63	309.82	7.55	15.0	503	6.97	2.44	0.12	3.6	1.2	2.1	9.0	<0.20 ^e	0.39	<0.50	0.48	<0.20	NA	NA
05/03/17	360.45	50.12	310.33	7.19	15.6	313	4.54	3.57	0.28	6.9	3.1	6.8	21	<0.20 ^e	1.4	2.7	0.29	0.30	NA	NA
11/14/17	360.45	49.00	311.45	6.78	15.2	454	0.71	NM	1.3	3.6	1.6	7.4	8.7	<0.20 ^e	0.33	<0.50	4.4	0.43	NA	NA
01/16/18	360.45	48.62	311.83	6.12	14.4	22.7	6.23	18.1	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20 ^e	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	360.45	48.35	312.10	6.69	14.4	479	0.28	1.89	1.9	NS	NS	NS	NS	NS	NS	NS	4.7	<0.20	NA	NA
05/16/18	360.45	47.94	312.51	6.42	15.2	405	0.21	1.41	1.5	6.2	2.2	20	19	<0.010	1.3	5.1	2.9	<0.20	NA	NA
11/07/18	360.45	48.14	312.31	6.82	15.1	506	0.17	2.50	1.5	6.6	1.1	24	2.8	<0.010	<0.20	7.0	3.3	<0.20	NA	NA
07/26/19	360.45	48.58	311.87	6.55	17.9	782	0.65	NM	1.2	1.3	0.25	1.2	2.4	<0.0030	0.22	4.8	2.8	<0.20	<0.10	<0.20
01/30/20	360.45	50.03	310.42	7.51	13.5	27.0	7.14	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	<0.080	<0.16
07/22/20	360.45	50.25	310.20	6.80	16.1	355	1.57	NM	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/19/20	360.45	50.68	309.77	7.51	16.4	390	2.34	1.5	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/18/21	360.45	50.90	309.55	7.49	14.9	378	0.66	0.7	<0.10	0.66	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/26/21	360.45	50.49	309.96	7.65	15.7	378	0.19	0.44	<0.10	0.51	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	360.45	50.63	309.82	7.65	18.1	308	0.31	0.63	<0.05	0.59	<0.50	<0.25	<0.75	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/25/22	360.45	50.31	310.14	7.01	14.7	622	0.40	0.29	<0.05	0.33	<0.50	<0.25	<0.75	<0.010	<2.5	<1.0	NA	NA	NA	NA
07/26/22	360.45	49.43	311.02	6.92	18.2	496	0.86	1.71	<0.10	0.70	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	360.45	49.79	310.66	6.36	15.9	530	0.68	0.69	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/31/23	360.45	49.96	310.49	7.09	13.8	510	0.66	1.12	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

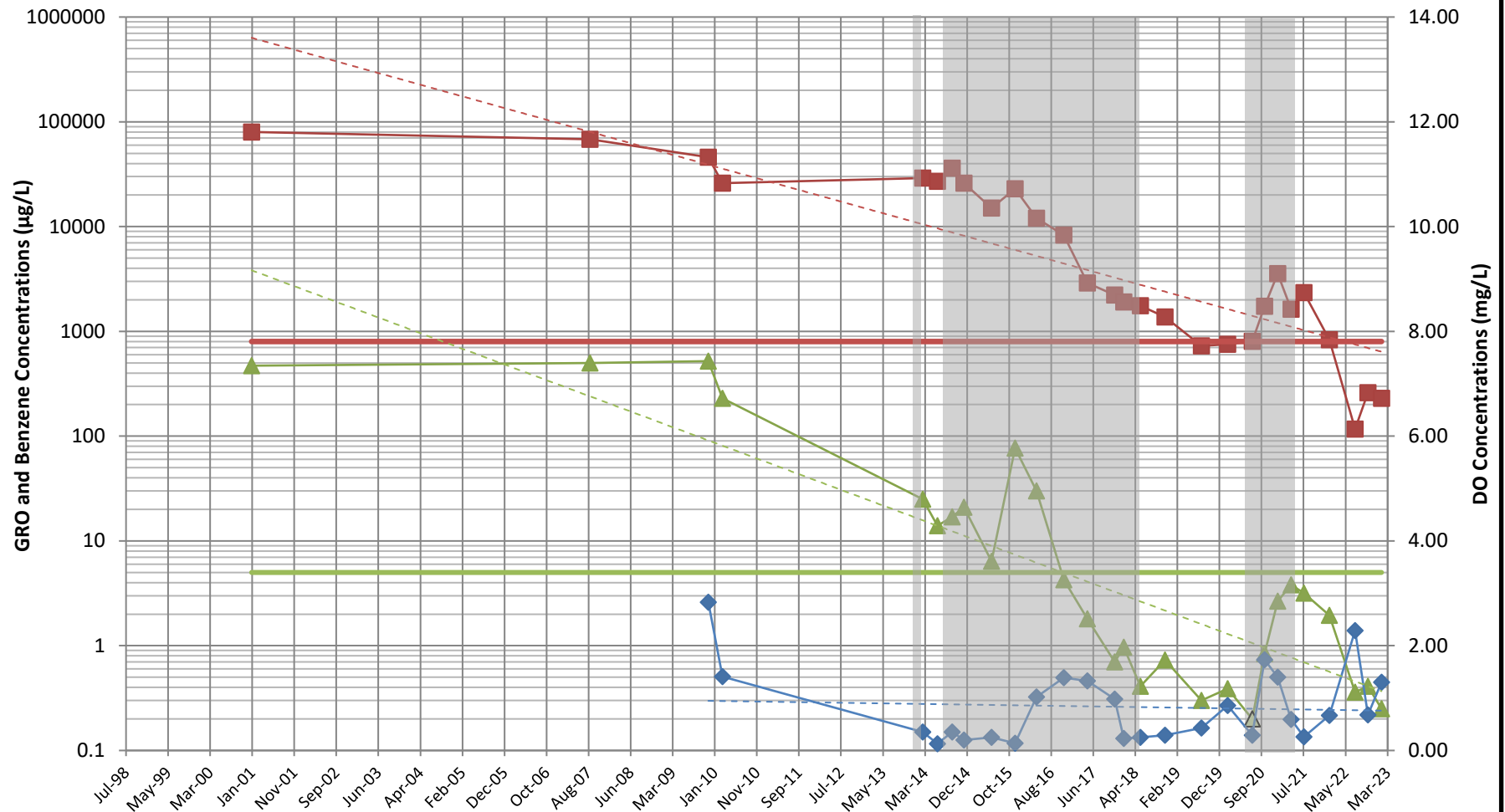
Table B-9
Summary of Groundwater Sampling Results - Well MW-22
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
12/10/09	393.31	83.8	309.51	6.96	11.7	5.66	0.27	NM	8.0	17	26	770	1,112	< 0.0095	4.9	270	NA	NA	NA	NA
02/12/10	393.31	NM	NM	NM	NM	NM	NM	0.97	12.0	22	51	850	1,719	< 0.0096	11	280	NA	NA	NA	NA
03/16/10	393.31	83.63	309.68	6.65	12.5	586	0.25	82.0	15.0	23	74	1,400	2,420	< 0.0095	15	380	NS	NS	NS	NS
03/20/14	393.31	82.93	310.38	6.68	12.2	381	0.87	64.8	17.0	5.7	12	990	1,503	< 0.070 ^f	7.8	400 J	1.2 J	< 0.20	NA	NA
05/28/14	393.31	82.72	310.59	6.73	13.2	383	0.30	2.26	18.0	3.90	9.70	940	1,900	< 0.070 ^f	8.6	420 B	1.7 J	< 0.20	NA	NA
09/12/14	393.31	82.98	310.33	6.81	13.7	423	0.29	1.03	16.0	4.80	9.30	690	1,103	< 1.5 ^f	9.8	460 B J	1.1 J	< 0.20	NA	NA
12/05/14	393.31	82.98	310.33	6.81	12.8	378	0.26	3.71	16.0	8.70	11.0	740	1,103	< 1.5 ^f	7.2	380	0.86 J	< 0.20	NA	NA
06/25/15	393.31	82.95	310.36	6.82	13.6	354	0.52	3.34	19.0	5.90	7.40	750	1,402	< 0.74 ^f	4.7	310	1.0 J	< 0.20	NA	NA
12/02/15	393.31	84.83	308.48	6.87	13.0	325	0.25	3.42	19.0	4.40	6.20	840	1,503	<0.020 ^e	3.0 J	240	1.5 J	< 0.20	NA	NA
05/04/16	393.31	83.85	309.46	6.84	13.3	294	0.39	3.61	15.0	3.80	5.00	780	1,403	<0.20 ^f	8.6	470 Q	2.8 J	<0.20	NA	NA
11/16/16	393.31	83.43	309.88	6.89	13.1	246	1.00	5.50	11.0	3.97	3.93	631	882	<0.20 ^f	5.9 J	438	1.9	<0.20	NA	NA
05/02/17	393.31	82.95	310.36	6.67	13.3	172	0.41	1.87	12.8	4.22	4.35	651	960	<0.20 ^f	5.7	389	2.8	<0.22	NA	NA
11/15/17	393.31	81.93	311.38	7.09	13.1	215	1.72	3.72	11.1	4.17	3.34	481	583	<2.0 ^f	5.4	326	2.4	<0.20	NA	NA
01/18/18	393.31	81.43	311.88	6.67	12.9	196	0.81	3.08	16.5	4.90	3.89	530	731	<2.0 ^f	7.9	349	2.9	<0.20	NA	NA
03/09/18	393.31	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/16/18	393.31	80.92	312.39	6.41	13.5	172	3.39	2.94	12.2	2.97	2.4	340	630	<0.010	4.8	268	2.0	<0.20	NA	NA
11/07/18	393.31	81.22	312.09	6.97	13.4	171	3.92	1.78	8.56	2.27	2.2	198	407	<0.010	4.0	228	1.8 J	0.20 UJ	NA	NA
08/08/19	393.31	81.52	311.79	6.02	14.6	231	5.05	NM	1.94	1.05	0.33	61.4	76.3	<0.0030	0.47	61	0.77	<0.20	<0.10	<0.20
01/29/20	393.31	82.58	310.73	6.72	12.8	192	1.78	NM	4.32	3.10	<5.0	247	335	<2.5 ^f	<10	130	NA	NA	0.27 ^e	<0.20
07/21/20	393.31	83.04	310.27	5.60	14.8	208	0.96	NM	4.38	2.90	<5.0	184	340	<2.5 ^f	<10	175	NA	NA	NA	NA
01/24/22	393.31	82.79	310.52	7.70	13.0	252	0.54	0.84	0.23	1.51	<0.50	1	<0.75	<0.010	<1.0	13.2	NA	NA	NA	NA
01/30/23	393.31	82.96	310.35	7.72	12.4	204	0.76	2.17	0.10	0.40	<1.0	<0.50	<1.5	<0.010	<2.0	2.78	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e The laboratory noted that the result for diesel-range organics is due to overlap from gasoline or a gasoline-range product. ^f The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

Table B-10
Summary of Groundwater Sampling Results - Well PORT-MW-B
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	EDB (µg/L)	N-hexane (µg/L)	Naphthalene (µg/L)	DRO (mg/L)	ORO (mg/L)	DRO after Silica Gel Cleanup (mg/L)	ORO after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels ^a									0.8 ^b /1.0 ^c	5.0	1,000	700	1,000	0.01	480 ^d	160	0.5	0.5	0.5	0.5
08/03/11	400.00 ^e	NM	NM	NM	NM	NM	NM	NM	0.20	1.3	< 1.0	13	3.4	< 0.01	< 1.0	13	0.28	< 0.25	NA	NA
03/20/14	400.00 ^e	89.70	310.30 ^f	6.55	12.3	267	6.16	NM	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	< 0.50 J	< 0.10	< 0.20	NA	NA
05/28/14	400.00 ^e	89.50	310.50 ^f	6.50	14.2	317	4.63	98.3	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
09/12/14	400.00 ^e	89.71	310.29 ^f	6.56	14.0	266	3.56	6.18	< 0.10	< 0.25	< 0.25	1.10	1.90	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/05/14	400.00 ^e	89.71	310.29 ^f	6.57	12.6	265	4.07	84.1	0.11	< 0.25	< 0.25	1.10	1.00	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/25/15	400.00 ^e	89.67	310.33 ^f	6.51	14.3	290	3.80	4.18	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.070 ^g	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/02/15	400.00 ^e	91.61	308.39 ^f	6.56	13.0	267	2.34	1.79	< 0.25	< 0.20	< 0.20	0.26	0.40 J	< 0.070 ^g	< 0.20	2.3 J	< 0.10	0.49	NA	NA
05/04/16	400.00 ^e	90.55	309.45 ^f	6.72	13.2	219	2.59	7.38	<0.10	0.080 J	<0.20	0.74	0.50	<0.20 ^g	<0.20	0.83 J	<0.10	<0.20	NA	NA
11/16/16	400.00 ^e	90.31	309.69 ^f	6.70	13.1	192	3.97	11.7	<0.10	0.030 J	<0.20	0.04 J	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
05/02/17	400.00 ^e	89.65	310.35 ^f	6.54	12.9	107	3.85	2.63	<0.10	0.21	<0.20	1.16	<0.40	<0.020 ^e	<0.20	1.37	<0.10	<0.20	NA	NA
11/15/17	400.00 ^e	88.67	311.33 ^f	6.78	13.0	199	5.09	2.42	<0.10	<0.20	<0.20	0.36	<0.40	<0.20 ^g	<0.20	<0.50	<0.10	<0.20	NA	NA
01/18/18	400.00 ^e	88.17	311.83 ^f	6.82	12.6	173	1.39	3.43	0.15	0.47	<0.20	2.68	<0.40	<0.20 ^g	<0.20	3.24	0.17	<0.20	NA	NA
03/09/18	400.00 ^e	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/16/18	400.00 ^e	87.64	312.36 ^f	6.40	13.8	103	3.36	2.35	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
11/07/18	400.00 ^e	87.91	312.09 ^f	6.80	13.1	103	4.92	1.29	<0.10	<0.20	<0.20	<0.20	<0.40	<0.010	<0.20	<0.50	<0.10	<0.20	NA	NA
08/08/19	400.00 ^e	89.67	310.73 ^f	7.48	11.9	211	1.43	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.0030	0.11 J	<0.50	0.14	<0.20	<0.10	<0.20
01/29/20	399.83	105.60	294.23	6.66	12.0	166	8.70	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/21/20	399.83	89.77	310.06	5.37	14.5	174	3.15	NM	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/19/20	399.83	90.30	309.53	6.22	15.0	194	1.14	3.27	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/18/21	399.83	90.61	309.22	6.31	12.3	209	3.75	14.50	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
04/26/21	399.83	90.12	309.71	6.80	13.7	228	2.99	62.60	<0.10	0.22	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
07/26/21	399.83	90.28	309.55	6.88	15.2	185	3.88	2.10	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/24/22	399.83	90.02	309.81	7.00	12.7	224	2.71	0.64	<0.050	<0.10	<0.50	<0.25	<0.75	<0.010	<1.0	<1.0	NA	NA	NA	NA
07/25/22	399.83	89.11	310.72	6.88	17.8	253	2.01	6.20	<0.10	<0.20	<1.0	<0.50	<1.50	<0.010	<2.0	<2.0	NA	NA	NA	NA
10/25/22	399.83	89.49	310.34	6.14	14.2	152	4.11	12.70	<0.10	<0.20	<1.0	<0.50	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
01/30/23	399.83	89.67	310.16	7.48	11.9	211	1.43	114	<0.10	0.40	<1.0	1.2	<1.5	<0.010	<2.0	<2.0	NA	NA	NA	NA
Notes: NS = Not sampled NS = Not sampled NM = Not measured NA = Not analyzed mg/L = Milligrams per liter µg/L = Micrograms per liter NTU = Nephelometric turbidity unit µmhos/cm = Micromhos per centimeter °C = Degrees Celsius J = Laboratory estimated value DRO = Diesel-range organics ORO = Oil-range organics GRO = Gasoline-range organics EDB = 1,2-dibromoethane ^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater. ^b When benzene is present. ^c When benzene is not present. ^d Method B cleanup level used because Method A cleanup level is not established. Standard formula values, direct contact Method B groundwater cleanup levels as published on Ecology's Cleanup Level and Risk Calculation (CLARC) on-line database (July 2022). ^e Top of casing elevation was not surveyed; elevation was estimated by Golder Associates, Inc. ^f Estimated elevation. ^g The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.																				

MW-07



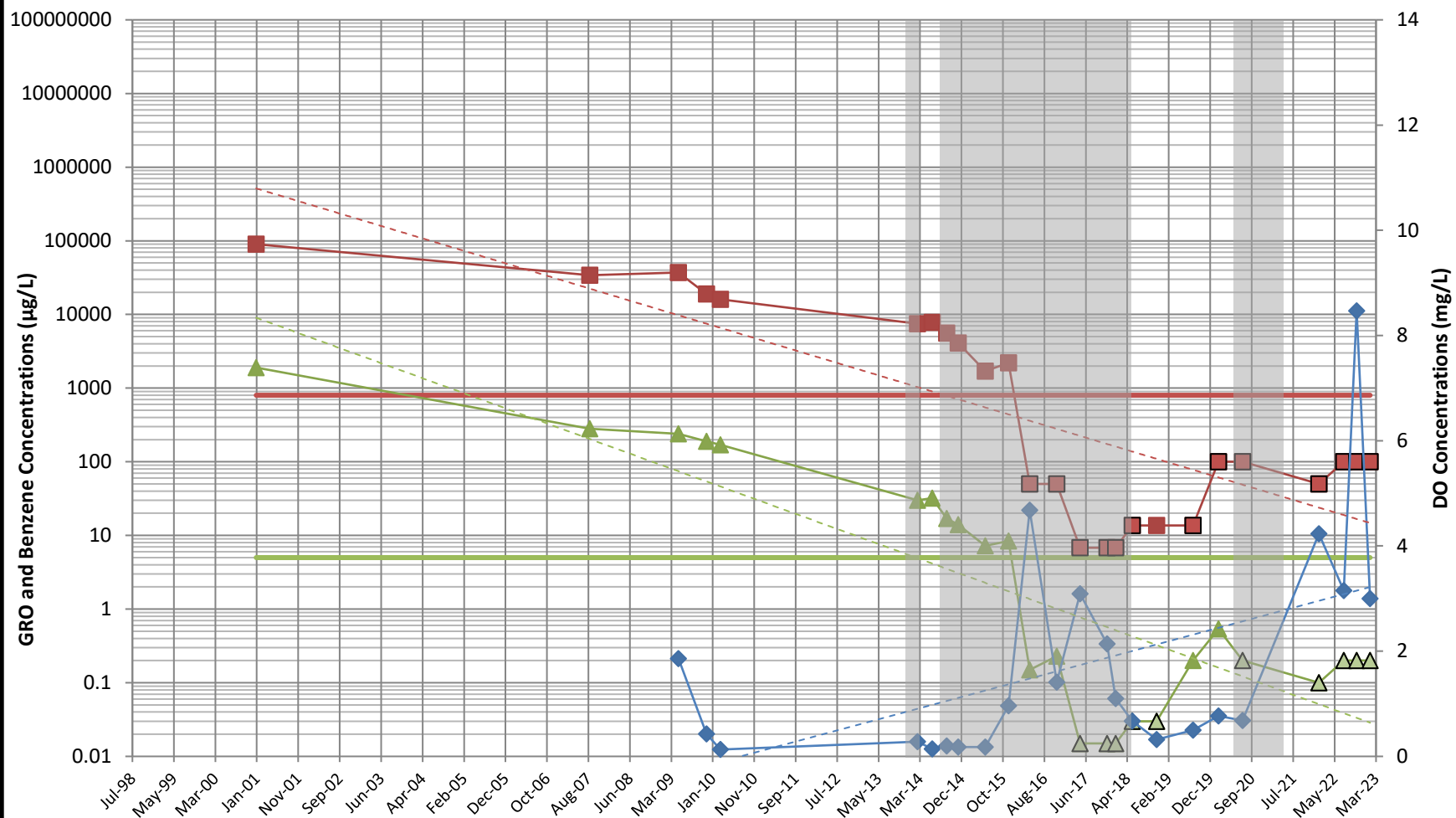
Legend

- GRO Concentrations
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- - - GRO Trendline
- - - DO Trendline
- GRO Cleanup Level (800 ug/L)
- △ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- IAS - SVE system operating

FIGURE B-1

**GRO and Benzene Concentrations in MW-07
SeaTac Development Site**

MW-09

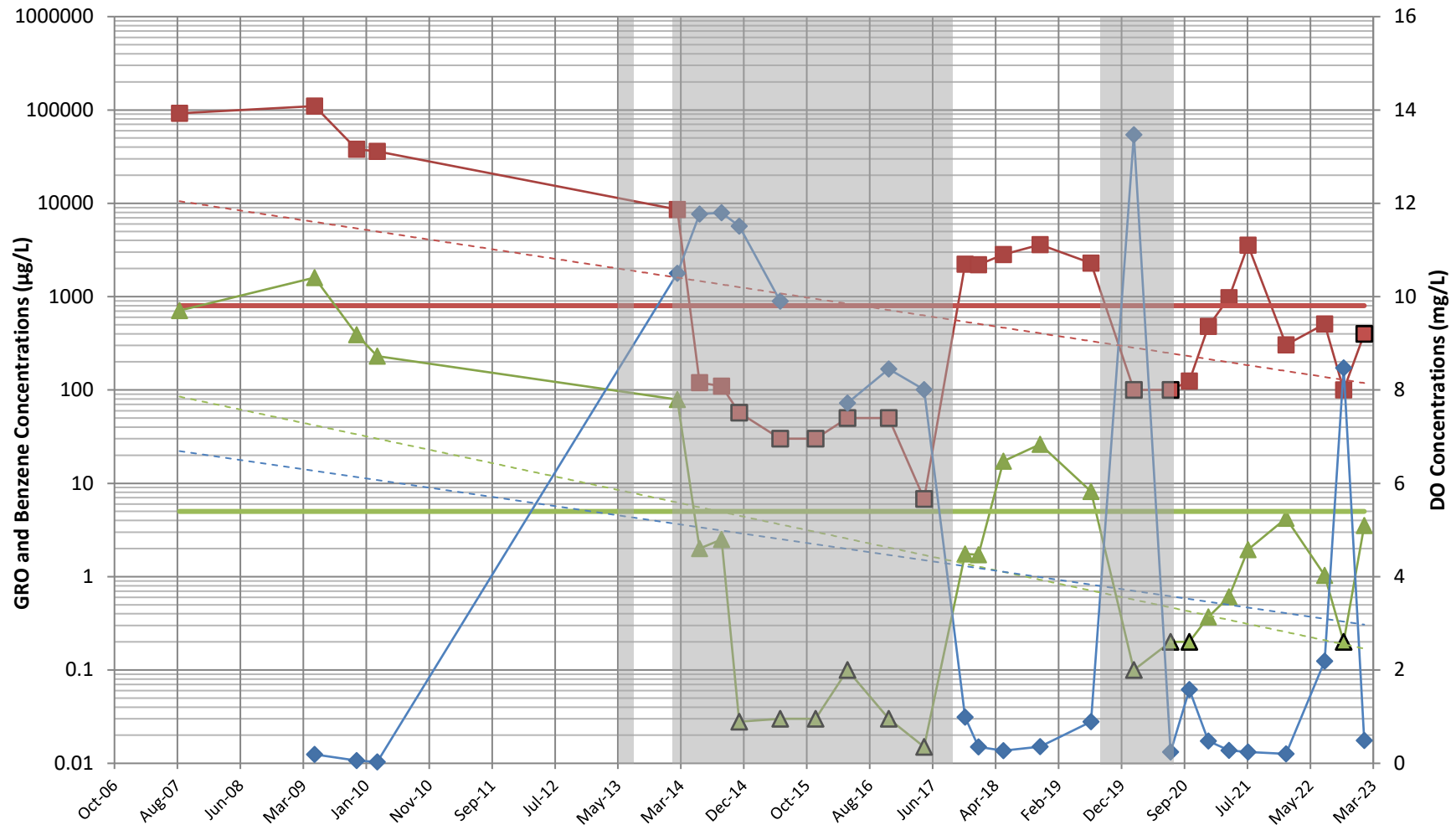


Legend

- GRO Concentrations
- GRO Non-Detects
- GRO Cleanup Level (800 ug/L)
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- GRO Trendline
- Benzene Trendline
- DO Trendline
- IAS - SVE system operating

FIGURE B-2
GRO and Benzene Concentrations in
MW-09
SeaTac Development Site

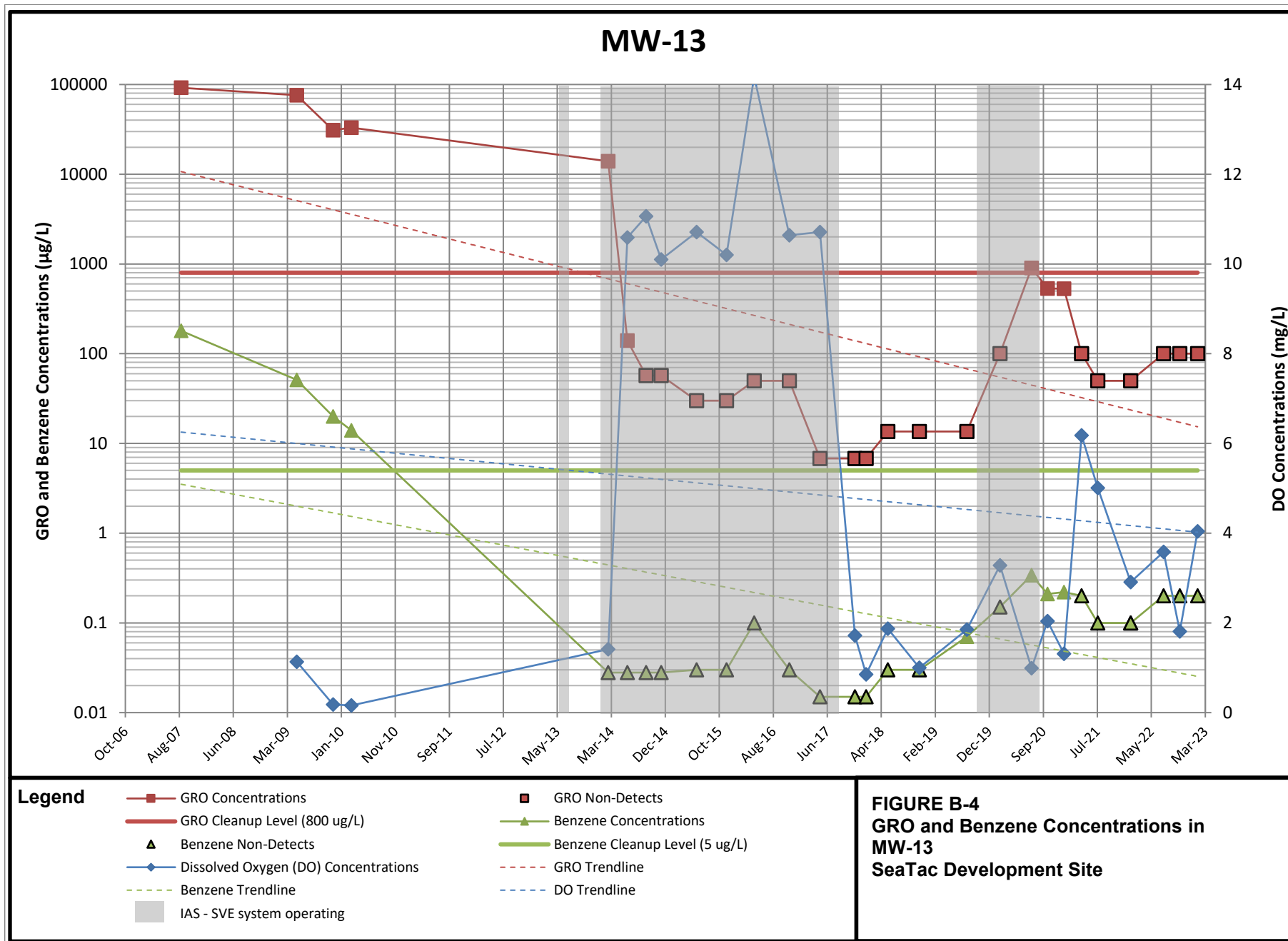
MW-12



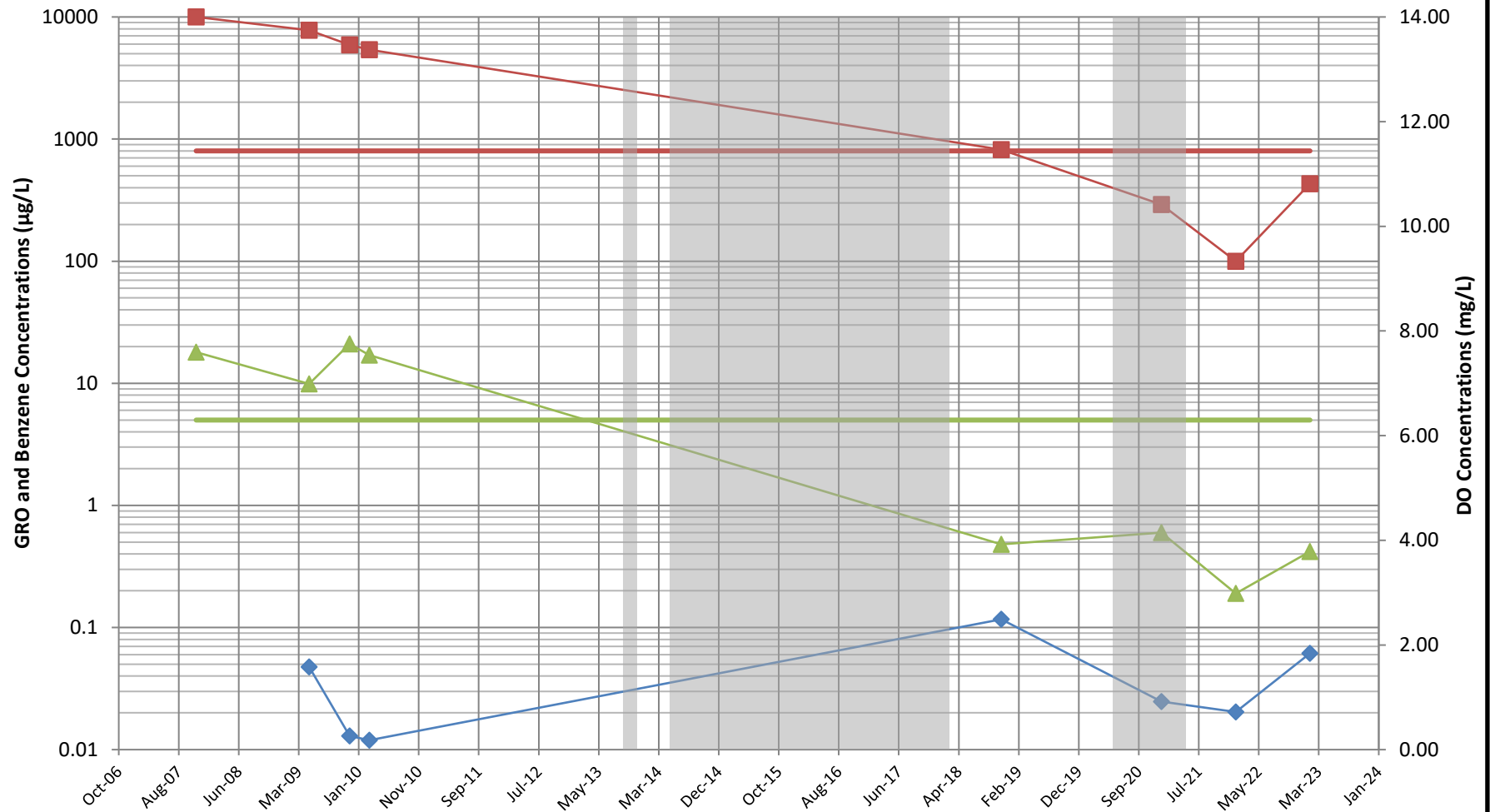
Legend

- GRO Concentrations
- GRO Non-Detects
- ▲ Benzene Concentrations
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- GRO Trendline
- Benzene Trendline
- DO Trendline
- IAS - SVE system operating
- GRO Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)

FIGURE B-3
GRO and Benzene Concentrations in MW-12
SeaTac Development Site



MW-15

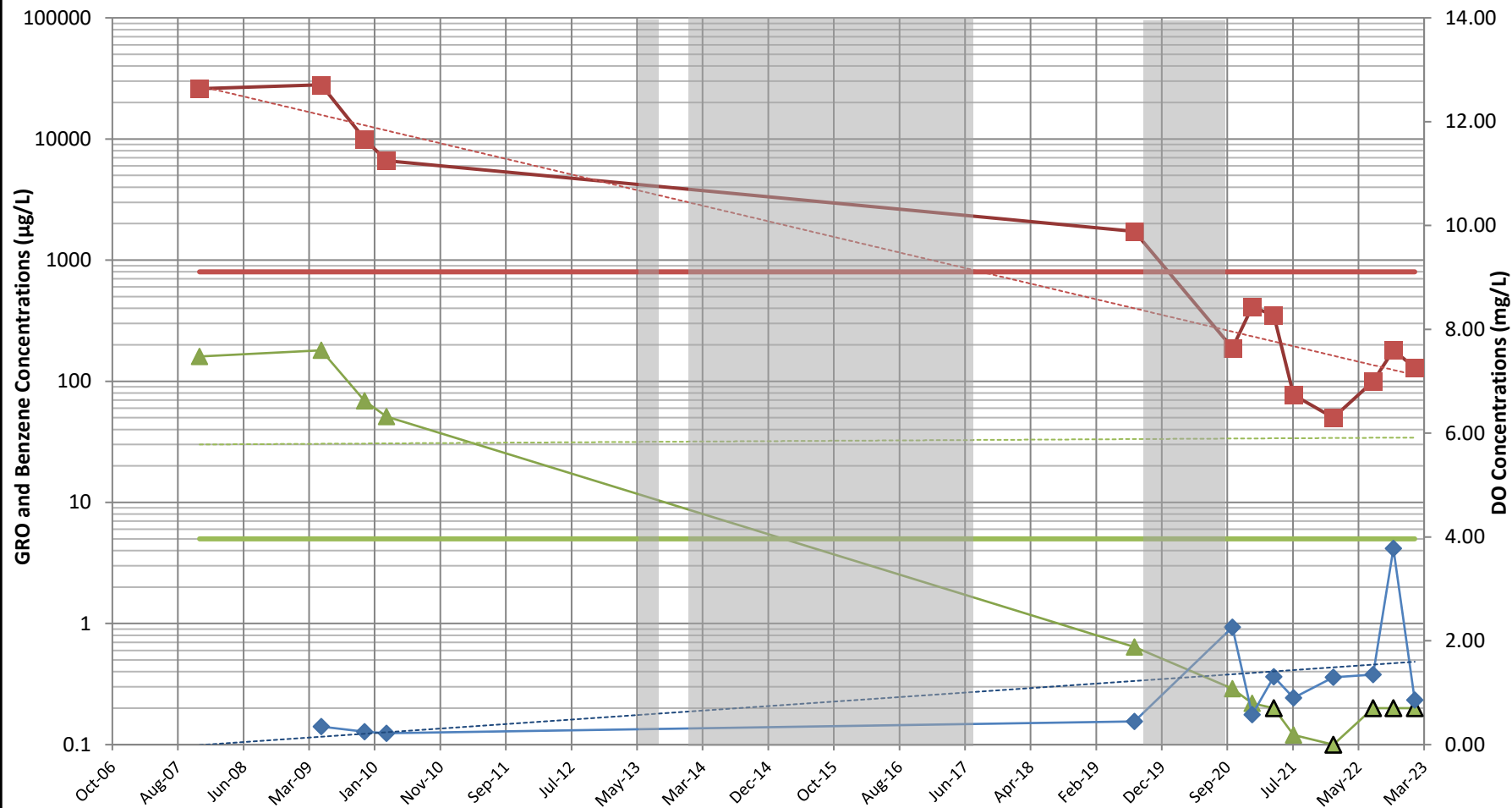


Legend

- GRO Concentrations
- ▲ Benzene Concentrations
- ◆ Dissolved Oxygen (DO) Concentrations
- IAS - SVE system operating
- GRO Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)

FIGURE B-5
GRO and Benzene Concentrations in
MW-15
SeaTac Development Site

MW-16

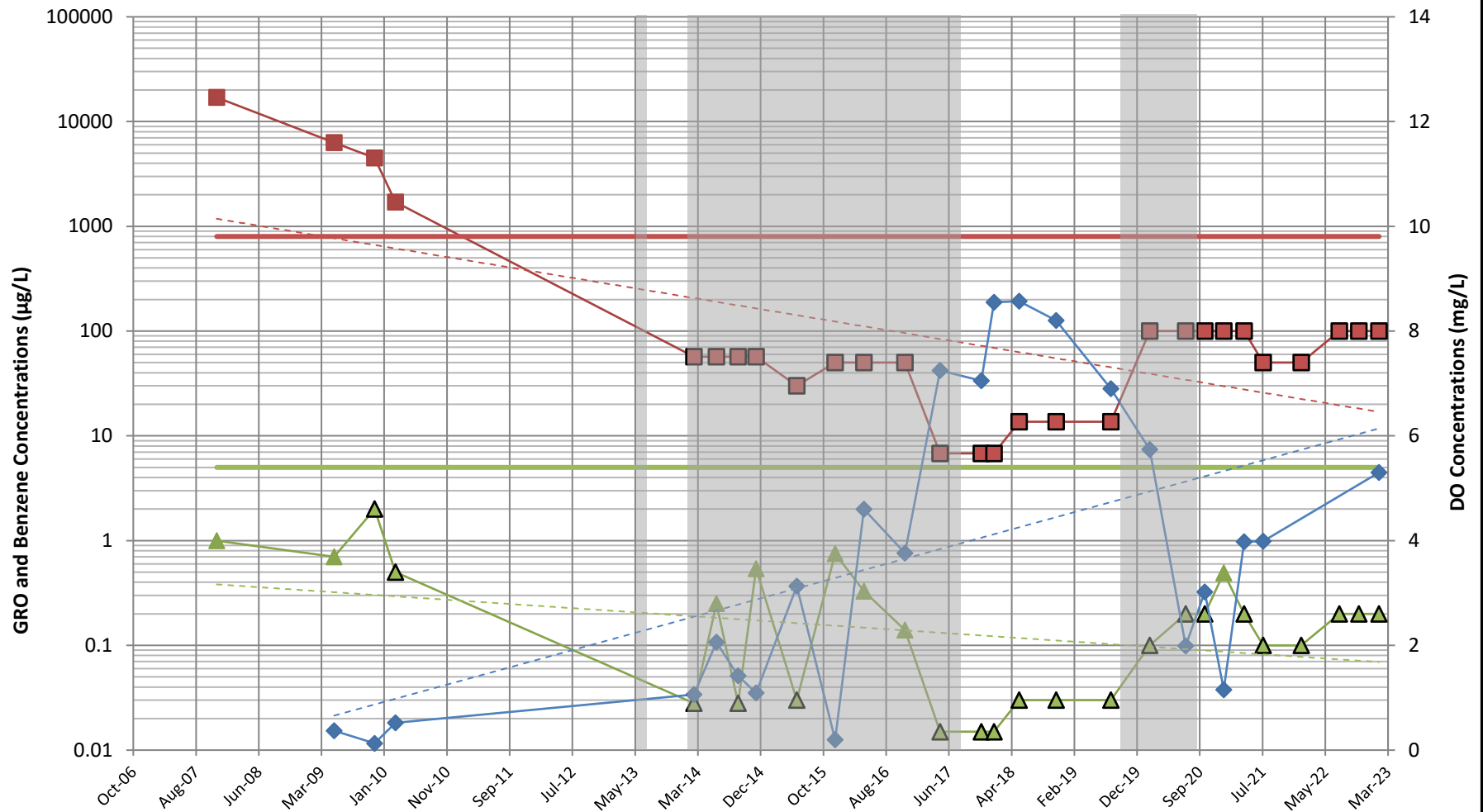


Legend

- GRO Concentrations
- ▲ Benzene Concentrations
- ▲ Benzene Non-Detects
- GRO Trendline
- DO Trendline
- IAS - SVE system operating
- GRO Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)
- ◆ Dissolved Oxygen (DO) Concentrations
- Benzene Trendline

FIGURE B-6
GRO and Benzene Concentrations in
MW-16
SeaTac Development Site

MW-17A

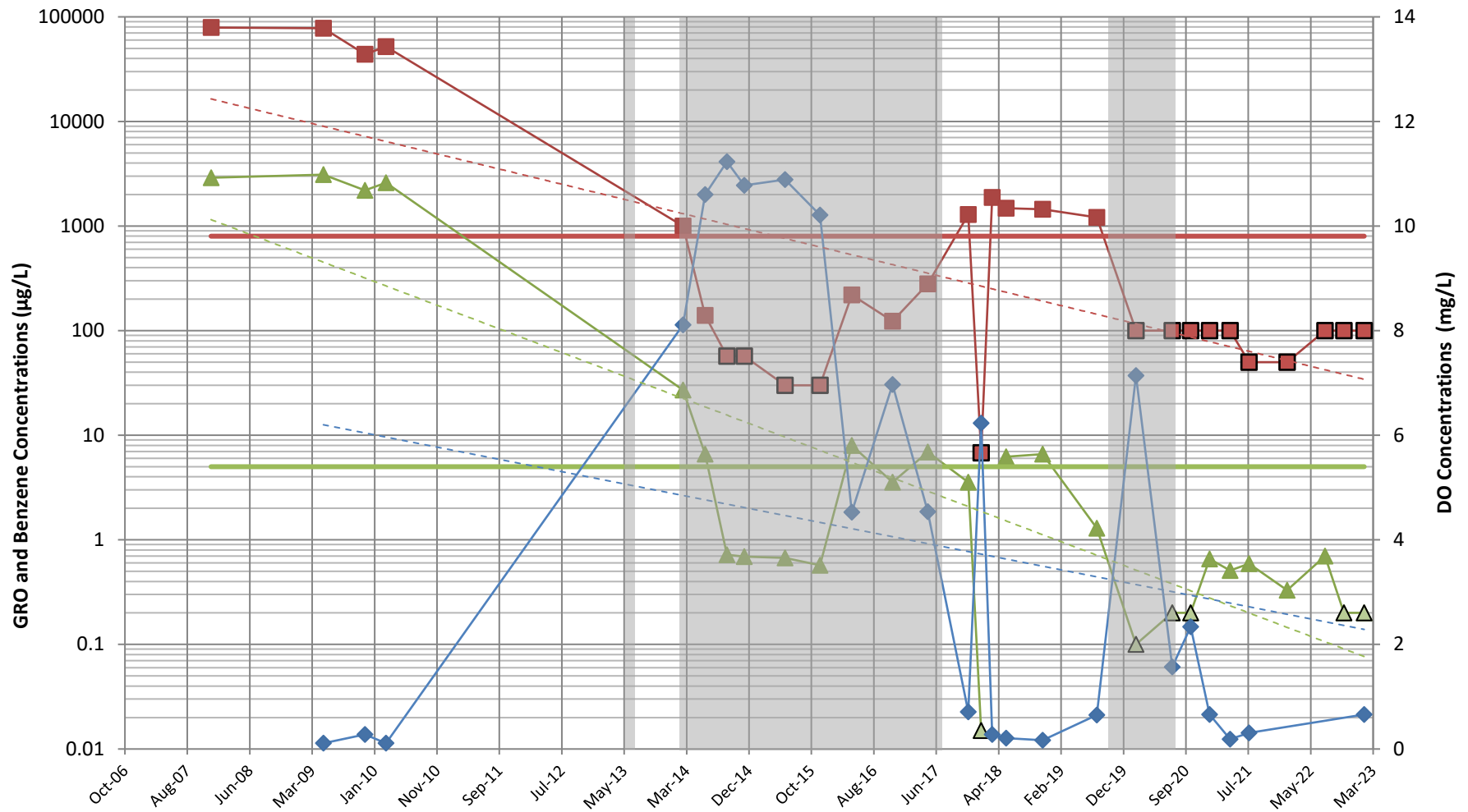


Legend

- GRO Concentrations
- GRO Cleanup Level (800 ug/L)
- ▲ Benzene Non-Detects
- ◆ Dissolved Oxygen (DO) Concentrations
- - - Benzene Trendline
- GRO Non-Detects
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- - - GRO Trendline
- - - DO Trendline
- IAS - SVE system operating

FIGURE B-7
GRO and Benzene Concentrations in
MW-17A
SeaTac Development Site

MW-18

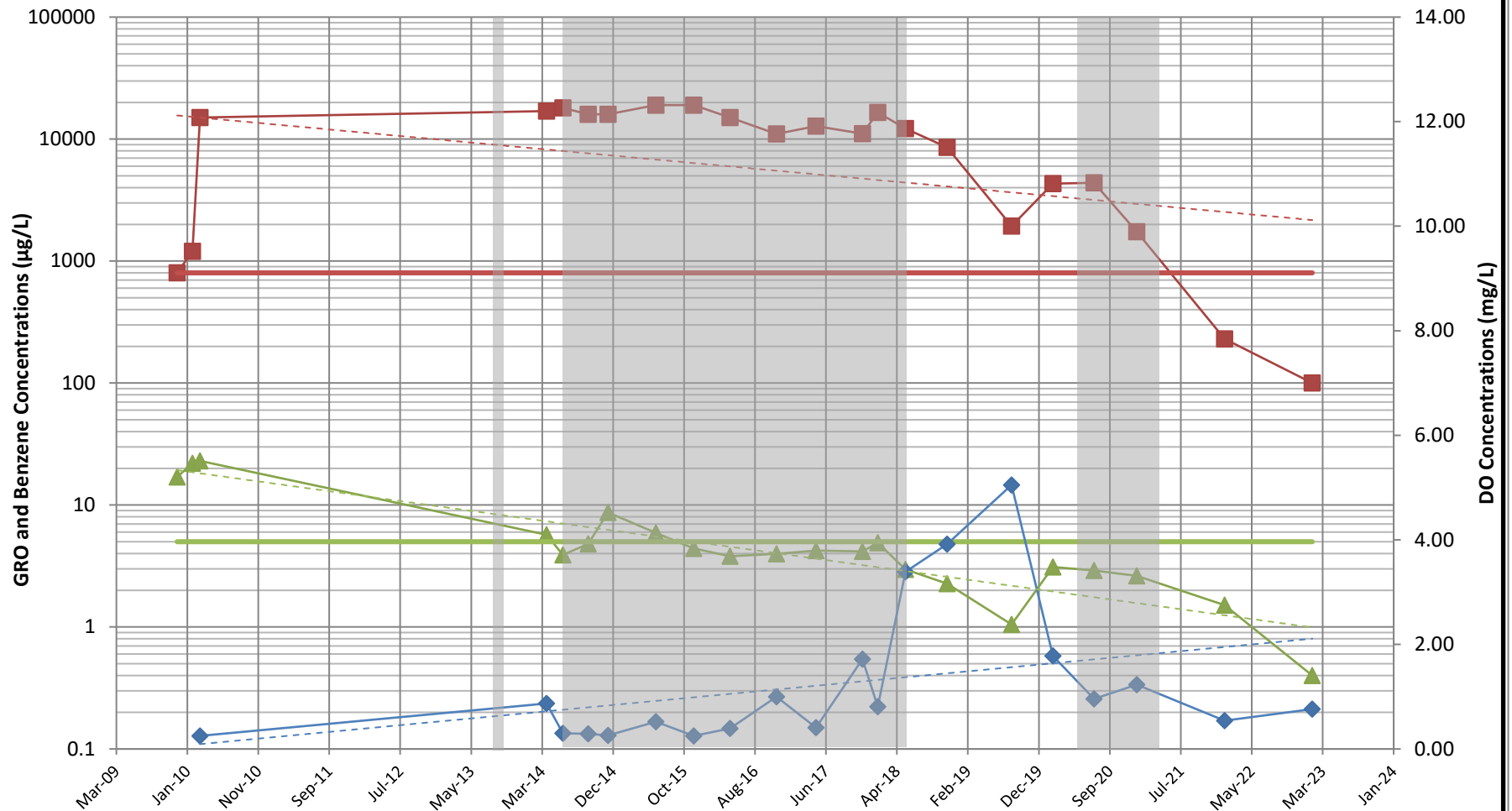


Legend

- GRO Concentrations
- GRO Non-Detects
- GRO Cleanup Level (800 ug/L)
- ▲ Benzene Concentrations
- Benzene Cleanup Level (5 ug/L)
- ◆ Dissolved Oxygen (DO) Concentrations
- GRO Trendline
- Benzene Trendline
- DO Trendline
- IAS - SVE system operating

FIGURE B-8
GRO and Benzene Concentrations in
MW-18
SeaTac Development Site

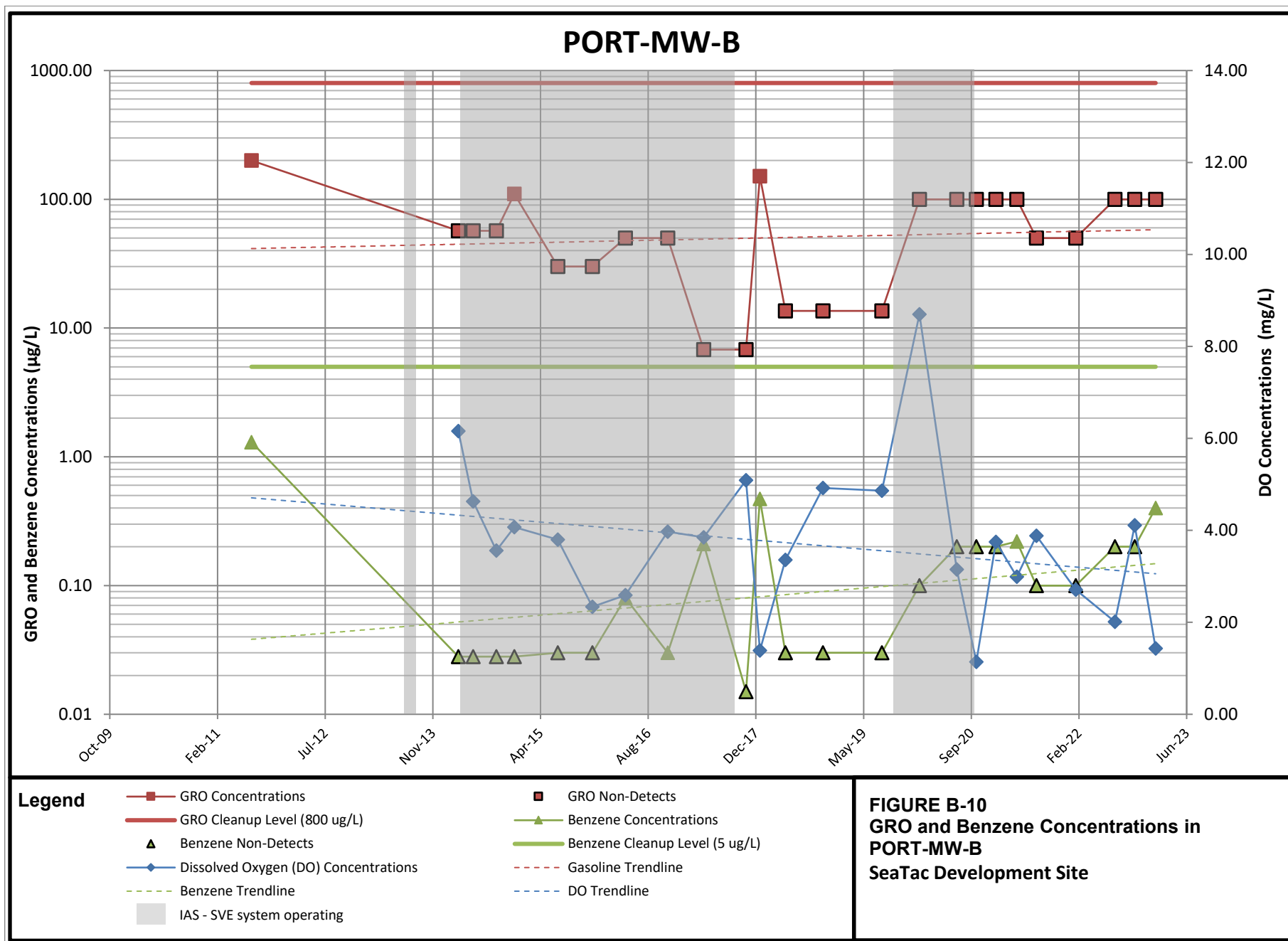
MW-22



Legend

- GRO Concentrations
- ▲ Benzene Concentrations
- ◆ Dissolved Oxygen (DO) Concentrations
- Benzene Trendline
- IAS - SVE system operating
- GRO Cleanup Level (800 ug/L)
- Benzene Cleanup Level (5 ug/L)
- GRO Trendline
- DO Trendline

FIGURE B-9
GRO and Benzene Concentrations in
MW-22
SeaTac Development Site



APPENDIX C

LABORATORY REPORT



DRAFT

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Tuesday, February 7, 2023

Mike Staton

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

RE: A3B0012 - Sea-Tac Development Site - 128.02207.00003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3B0012, which was received by the laboratory on 2/1/2023 at 11:13:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler

3.5 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



DRAFT

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Mike Staton

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7-0123	A3B0012-01	Water	01/30/23 16:46	02/01/23 11:13
MW-09-0123	A3B0012-02	Water	01/31/23 10:51	02/01/23 11:13
MW-12-0123	A3B0012-03	Water	01/31/23 12:18	02/01/23 11:13
MW-13-0123	A3B0012-04	Water	01/31/23 11:38	02/01/23 11:13
MW-15-0123	A3B0012-05	Water	01/30/23 11:14	02/01/23 11:13
MW-16-0123	A3B0012-06	Water	01/31/23 10:11	02/01/23 11:13
MW-17A-0123	A3B0012-07	Water	01/31/23 09:26	02/01/23 11:13
MW-18-0123	A3B0012-08	Water	01/31/23 13:07	02/01/23 11:13
MW-22-0123	A3B0012-09	Water	01/30/23 10:19	02/01/23 11:13
Port-MW-B-0123	A3B0012-10	Water	01/30/23 12:14	02/01/23 11:13
MW-32-0123	A3B0012-11	Water	01/31/23 12:32	02/01/23 11:13
Equipment Blank	A3B0012-12	Water	01/31/23 13:20	02/01/23 11:13
Trip Blank	A3B0012-13	Water	01/31/23 00:00	02/01/23 11:13

Apex Laboratories

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Philip Nerenberg, Lab Director

Page 2 of 31



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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0123 (A3B0012-01RE1)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	227	---	100	ug/L	1	02/02/23 18:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	02/02/23 18:24	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	02/02/23 18:24	NWTPH-Gx (MS)		
MW-09-0123 (A3B0012-02)		Matrix: Water			Batch: 23B0019			
Gasoline Range Organics	ND	---	100	ug/L	1	02/01/23 19:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	02/01/23 19:58	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		99 %	50-150 %	1	02/01/23 19:58	NWTPH-Gx (MS)		
MW-12-0123 (A3B0012-03)		Matrix: Water			Batch: 23B0019			
Gasoline Range Organics	342	---	100	ug/L	1	02/01/23 20:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	02/01/23 20:20	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		101 %	50-150 %	1	02/01/23 20:20	NWTPH-Gx (MS)		
MW-13-0123 (A3B0012-04)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 20:39	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	02/02/23 20:39	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	02/02/23 20:39	NWTPH-Gx (MS)		
MW-15-0123 (A3B0012-05)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	425	---	100	ug/L	1	02/02/23 21:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 100 %	Limits: 50-150 %	1	02/02/23 21:23	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	02/02/23 21:23	NWTPH-Gx (MS)		
MW-16-0123 (A3B0012-06)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	134	---	100	ug/L	1	02/02/23 21:46	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 98 %	Limits: 50-150 %	1	02/02/23 21:46	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	02/02/23 21:46	NWTPH-Gx (MS)		
MW-17A-0123 (A3B0012-07)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 22:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %	1	02/02/23 22:08	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	02/02/23 22:08	NWTPH-Gx (MS)		
MW-18-0123 (A3B0012-08)		Matrix: Water			Batch: 23B0089			

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-18-0123 (A3B0012-08)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 22:30	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	94 %	Limits: 50-150 %	1	02/02/23 22:30	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	02/02/23 22:30	NWTPH-Gx (MS)	
MW-22-0123 (A3B0012-09)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	101	---	100	ug/L	1	02/02/23 22:52	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	96 %	Limits: 50-150 %	1	02/02/23 22:52	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	1	02/02/23 22:52	NWTPH-Gx (MS)	
Port-MW-B-0123 (A3B0012-10)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 23:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	95 %	Limits: 50-150 %	1	02/02/23 23:15	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			103 %	50-150 %	1	02/02/23 23:15	NWTPH-Gx (MS)	
MW-32-0123 (A3B0012-11)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	401	---	100	ug/L	1	02/02/23 23:37	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	02/02/23 23:37	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			103 %	50-150 %	1	02/02/23 23:37	NWTPH-Gx (MS)	
Equipment Blank (A3B0012-12)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 16:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	99 %	Limits: 50-150 %	1	02/02/23 16:55	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	02/02/23 16:55	NWTPH-Gx (MS)	
Trip Blank (A3B0012-13)		Matrix: Water			Batch: 23B0089			
Gasoline Range Organics	ND	---	100	ug/L	1	02/02/23 17:18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits: 50-150 %	1	02/02/23 17:18	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	1	02/02/23 17:18	NWTPH-Gx (MS)	

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equipment Blank (A3B0012-12)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 16:55	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 16:55	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 16:55	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 16:55	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/02/23 16:55</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>	<i>1</i>	<i>02/02/23 16:55</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>02/02/23 16:55</i>	<i>EPA 8260D</i>	
Trip Blank (A3B0012-13)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 17:18	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 17:18	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 17:18	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 17:18	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/02/23 17:18</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>105 %</i>		<i>80-120 %</i>	<i>1</i>	<i>02/02/23 17:18</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>02/02/23 17:18</i>	<i>EPA 8260D</i>	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0123 (A3B0012-01)		Matrix: Water			Batch: 23B0019			
Benzene	0.250	---	0.200	ug/L	1	02/01/23 19:36	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/01/23 19:36	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/01/23 19:36	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/01/23 19:36	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/01/23 19:36	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/01/23 19:36	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits:	80-120 %	1	02/01/23 19:36	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	02/01/23 19:36	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	02/01/23 19:36	EPA 8260D
MW-09-0123 (A3B0012-02)		Matrix: Water			Batch: 23B0019			
Benzene	ND	---	0.200	ug/L	1	02/01/23 19:58	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/01/23 19:58	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/01/23 19:58	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/01/23 19:58	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/01/23 19:58	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/01/23 19:58	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	93 %	Limits:	80-120 %	1	02/01/23 19:58	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	02/01/23 19:58	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	02/01/23 19:58	EPA 8260D
MW-12-0123 (A3B0012-03)		Matrix: Water			Batch: 23B0019			
Benzene	3.30	---	0.200	ug/L	1	02/01/23 20:20	EPA 8260D	
Toluene	2.25	---	1.00	ug/L	1	02/01/23 20:20	EPA 8260D	
Ethylbenzene	14.9	---	0.500	ug/L	1	02/01/23 20:20	EPA 8260D	
Xylenes, total	27.2	---	1.50	ug/L	1	02/01/23 20:20	EPA 8260D	
Naphthalene	2.86	---	2.00	ug/L	1	02/01/23 20:20	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/01/23 20:20	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	94 %	Limits:	80-120 %	1	02/01/23 20:20	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	02/01/23 20:20	EPA 8260D
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	02/01/23 20:20	EPA 8260D
MW-13-0123 (A3B0012-04)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 20:39	EPA 8260D	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-13-0123 (A3B0012-04)		Matrix: Water			Batch: 23B0089			
Toluene	ND	---	1.00	ug/L	1	02/02/23 20:39	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 20:39	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 20:39	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 20:39	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	02/02/23 20:39	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 20:39	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 89 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/02/23 20:39</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>106 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 20:39</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 20:39</i>	<i>EPA 8260D</i>	
MW-15-0123 (A3B0012-05)		Matrix: Water			Batch: 23B0089			
Benzene	0.420	---	0.200	ug/L	1	02/02/23 21:23	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 21:23	EPA 8260D	
Ethylbenzene	0.510	---	0.500	ug/L	1	02/02/23 21:23	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 21:23	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 21:23	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 21:23	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 90 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/02/23 21:23</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 21:23</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 21:23</i>	<i>EPA 8260D</i>	
MW-16-0123 (A3B0012-06)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 21:46	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 21:46	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 21:46	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 21:46	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 21:46	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 21:46	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 80-120 %</i>	<i>1</i>	<i>02/02/23 21:46</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>			<i>105 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 21:46</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>	<i>1</i>	<i>02/02/23 21:46</i>	<i>EPA 8260D</i>	
MW-17A-0123 (A3B0012-07)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 22:08	EPA 8260D	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-17A-0123 (A3B0012-07)		Matrix: Water			Batch: 23B0089			
Toluene	ND	---	1.00	ug/L	1	02/02/23 22:08	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 22:08	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 22:08	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 22:08	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 22:08	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	90 %	<i>Limits:</i>	80-120 %	1	02/02/23 22:08	EPA 8260D
<i>Toluene-d8 (Surr)</i>			107 %		80-120 %	1	02/02/23 22:08	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			100 %		80-120 %	1	02/02/23 22:08	EPA 8260D
MW-18-0123 (A3B0012-08)		Matrix: Water			Batch: 23B0089			
Benzene	ND	---	0.200	ug/L	1	02/02/23 22:30	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 22:30	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 22:30	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 22:30	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 22:30	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 22:30	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	90 %	<i>Limits:</i>	80-120 %	1	02/02/23 22:30	EPA 8260D
<i>Toluene-d8 (Surr)</i>			106 %		80-120 %	1	02/02/23 22:30	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			96 %		80-120 %	1	02/02/23 22:30	EPA 8260D
MW-22-0123 (A3B0012-09)		Matrix: Water			Batch: 23B0089			
Benzene	0.400	---	0.200	ug/L	1	02/02/23 22:52	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 22:52	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	02/02/23 22:52	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 22:52	EPA 8260D	
Naphthalene	2.78	---	2.00	ug/L	1	02/02/23 22:52	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 22:52	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	91 %	<i>Limits:</i>	80-120 %	1	02/02/23 22:52	EPA 8260D
<i>Toluene-d8 (Surr)</i>			108 %		80-120 %	1	02/02/23 22:52	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			99 %		80-120 %	1	02/02/23 22:52	EPA 8260D
Port-MW-B-0123 (A3B0012-10)		Matrix: Water			Batch: 23B0089			
Benzene	0.400	---	0.200	ug/L	1	02/02/23 23:15	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	02/02/23 23:15	EPA 8260D	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Port-MW-B-0123 (A3B0012-10)		Matrix: Water			Batch: 23B0089			
Ethylbenzene	1.17	---	0.500	ug/L	1	02/02/23 23:15	EPA 8260D	
Xylenes, total	ND	---	1.50	ug/L	1	02/02/23 23:15	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	02/02/23 23:15	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 23:15	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 91 %		Limits: 80-120 %	1	02/02/23 23:15	EPA 8260D	
Toluene-d8 (Surr)		106 %		80-120 %	1	02/02/23 23:15	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %		80-120 %	1	02/02/23 23:15	EPA 8260D	
MW-32-0123 (A3B0012-11)		Matrix: Water			Batch: 23B0089			
Benzene	3.53	---	0.200	ug/L	1	02/02/23 23:37	EPA 8260D	
Toluene	2.75	---	1.00	ug/L	1	02/02/23 23:37	EPA 8260D	
Ethylbenzene	16.8	---	0.500	ug/L	1	02/02/23 23:37	EPA 8260D	
Xylenes, total	31.2	---	1.50	ug/L	1	02/02/23 23:37	EPA 8260D	
Naphthalene	3.02	---	2.00	ug/L	1	02/02/23 23:37	EPA 8260D	
n-Hexane	ND	---	2.00	ug/L	1	02/02/23 23:37	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 89 %		Limits: 80-120 %	1	02/02/23 23:37	EPA 8260D	
Toluene-d8 (Surr)		105 %		80-120 %	1	02/02/23 23:37	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	02/02/23 23:37	EPA 8260D	

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7-0123 (A3B0012-01)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0250	0.0250	ug/L	1	02/02/23 17:45	EPA 8260D SIM	R-02
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	02/02/23 17:45	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	02/02/23 17:45	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			97 %		80-120 %	1	02/02/23 17:45	EPA 8260D SIM
MW-09-0123 (A3B0012-02)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 18:39	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	02/02/23 18:39	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	02/02/23 18:39	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	02/02/23 18:39	EPA 8260D SIM
MW-12-0123 (A3B0012-03)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	02/02/23 19:06	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	02/02/23 19:06	EPA 8260D SIM
Toluene-d8 (Surr)			99 %		80-120 %	1	02/02/23 19:06	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			97 %		80-120 %	1	02/02/23 19:06	EPA 8260D SIM
MW-13-0123 (A3B0012-04)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 19:33	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	02/02/23 19:33	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	02/02/23 19:33	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			99 %		80-120 %	1	02/02/23 19:33	EPA 8260D SIM
MW-15-0123 (A3B0012-05)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	02/02/23 20:00	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	02/02/23 20:00	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	02/02/23 20:00	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			97 %		80-120 %	1	02/02/23 20:00	EPA 8260D SIM
MW-16-0123 (A3B0012-06)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0240	0.0240	ug/L	1	02/02/23 20:27	EPA 8260D SIM	R-02
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	02/02/23 20:27	EPA 8260D SIM
Toluene-d8 (Surr)			101 %		80-120 %	1	02/02/23 20:27	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			97 %		80-120 %	1	02/02/23 20:27	EPA 8260D SIM

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Philip Nerenberg, Lab Director



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ANALYTICAL REPORT

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-17A-0123 (A3B0012-07)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 20:54	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	02/02/23 20:54	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	02/02/23 20:54	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	02/02/23 20:54	EPA 8260D SIM		
MW-18-0123 (A3B0012-08)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 21:21	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	02/02/23 21:21	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	02/02/23 21:21	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	02/02/23 21:21	EPA 8260D SIM		
MW-22-0123 (A3B0012-09)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 21:48	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1	02/02/23 21:48	EPA 8260D SIM		
Toluene-d8 (Surr)		101 %	80-120 %	1	02/02/23 21:48	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		96 %	80-120 %	1	02/02/23 21:48	EPA 8260D SIM		
Port-MW-B-0123 (A3B0012-10)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/02/23 22:15	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1	02/02/23 22:15	EPA 8260D SIM		
Toluene-d8 (Surr)		101 %	80-120 %	1	02/02/23 22:15	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	02/02/23 22:15	EPA 8260D SIM		
MW-32-0123 (A3B0012-11)		Matrix: Water			Batch: 23B0110			
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	02/02/23 22:42	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1	02/02/23 22:42	EPA 8260D SIM		
Toluene-d8 (Surr)		99 %	80-120 %	1	02/02/23 22:42	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		97 %	80-120 %	1	02/02/23 22:42	EPA 8260D SIM		

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503-718-2323

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SLR Corporation-Bothell

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Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0019 - EPA 5030C						Water						
Blank (23B0019-BLK1)			Prepared: 02/01/23 09:52		Analyzed: 02/01/23 12:11							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	78 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			92 %		50-150 %			"				
LCS (23B0019-BS2)												
			Prepared: 02/01/23 09:52		Analyzed: 02/01/23 11:29							
NWTPH-Gx (MS)												
Gasoline Range Organics	596	---	100	ug/L	1	500	---	119	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	97 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			102 %		50-150 %			"				
Duplicate (23B0019-DUP1)												
			Prepared: 02/01/23 09:52		Analyzed: 02/01/23 15:31							
QC Source Sample: Non-SDG (A3A1032-01)												
Gasoline Range Organics	13400	---	100	ug/L	1	---	15900	---	---	17	30%	E
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	107 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			102 %		50-150 %			"				
Duplicate (23B0019-DUP2)												
			Prepared: 02/01/23 09:52		Analyzed: 02/01/23 17:45							
QC Source Sample: Non-SDG (A3B0002-02)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	93 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			97 %		50-150 %			"				
Batch 23B0089 - EPA 5030C						Water						
Blank (23B0089-BLK1)			Prepared: 02/02/23 08:24		Analyzed: 02/02/23 16:33							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery:	92 %	Limits:	50-150 %		Dilution:	1x				
1,4-Difluorobenzene (Sur)			103 %		50-150 %			"				
LCS (23B0089-BS2)			Prepared: 02/02/23 08:24		Analyzed: 02/02/23 16:11							
NWTPH-Gx (MS)												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						
LCS (23B0089-BS2)			Prepared: 02/02/23 08:24 Analyzed: 02/02/23 16:11									
Gasoline Range Organics	554	---	100	ug/L	1	500	---	111	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 101 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (23B0089-DUP1)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 19:31									
QC Source Sample: Non-SDG (A3A1031-01)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 97 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						
Duplicate (23B0089-DUP2)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 21:01									
QC Source Sample: MW-13-0123 (A3B0012-04)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						
Blank (23B0089-BLK1)			Prepared: 02/02/23 08:24 Analyzed: 02/02/23 16:33									
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23B0089-BS1)			Prepared: 02/02/23 08:24 Analyzed: 02/02/23 15:48									
EPA 8260D												
Benzene	18.5	---	0.200	ug/L	1	20.0	---	92	80-120%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Xylenes, total	64.5	---	1.50	ug/L	1	60.0	---	107	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 89 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						
Duplicate (23B0089-DUP1)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 19:31									
QC Source Sample: Non-SDG (A3A1031-01)												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Duplicate (23B0089-DUP2)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 21:01									
QC Source Sample: MW-13-0123 (A3B0012-04)												
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	

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Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						
Duplicate (23B0089-DUP2)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 21:01									
QC Source Sample: MW-13-0123 (A3B0012-04)												
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		107 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23B0089-MS1)			Prepared: 02/02/23 15:24 Analyzed: 02/03/23 01:29									
QC Source Sample: Non-SDG (A3B0029-01)												
EPA 8260D												
Benzene	29.1	---	0.200	ug/L	1	20.0	8.93	101	79-120%	---	---	
Toluene	21.2	---	1.00	ug/L	1	20.0	ND	106	80-121%	---	---	
Ethylbenzene	24.7	---	0.500	ug/L	1	20.0	2.27	112	79-121%	---	---	
Xylenes, total	68.2	---	1.50	ug/L	1	60.0	ND	114	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0019 - EPA 5030C						Water						
Blank (23B0019-BLK1)			Prepared: 02/01/23 09:52		Analyzed: 02/01/23 12:11							
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 82 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		113 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						

LCS (23B0019-BS1)

Prepared: 02/01/23 09:52 Analyzed: 02/01/23 10:55

EPA 8260D												
Benzene	18.8	---	0.200	ug/L	1	20.0	---	94	80-120%	---	---	
Toluene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Ethylbenzene	20.8	---	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Xylenes, total	63.0	---	1.50	ug/L	1	60.0	---	105	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	18.1	---	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
Naphthalene	19.9	---	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.4	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichloroethane (EDC)	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Isopropylbenzene	21.7	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,2,4-Trimethylbenzene	21.7	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,3,5-Trimethylbenzene	21.3	---	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
n-Hexane	22.6	---	2.00	ug/L	1	20.0	---	113	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 93 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 103 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 95 % 80-120 % "</i>												

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0019 - EPA 5030C						Water						
Duplicate (23B0019-DUP1)												
Prepared: 02/01/23 09:52 Analyzed: 02/01/23 15:31												
QC Source Sample: Non-SDG (A3A1032-01)												
Benzene	78.0	---	0.200	ug/L	1	---	83.8	---	---	7	30%	
Toluene	230	---	1.00	ug/L	1	---	261	---	---	13	30%	E
Ethylbenzene	498	---	0.500	ug/L	1	---	640	---	---	25	30%	E
Xylenes, total	1040	---	1.50	ug/L	1	---	1290	---	---	22	30%	E
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	186	---	2.00	ug/L	1	---	211	---	---	13	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	41.3	---	1.00	ug/L	1	---	47.5	---	---	14	30%	
1,2,4-Trimethylbenzene	528	---	1.00	ug/L	1	---	650	---	---	21	30%	E
1,3,5-Trimethylbenzene	158	---	1.00	ug/L	1	---	168	---	---	6	30%	
n-Hexane	25.2	---	2.00	ug/L	1	---	25.1	---	---	0.5	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Duplicate (23B0019-DUP2)												
Prepared: 02/01/23 09:52 Analyzed: 02/01/23 17:45												
QC Source Sample: Non-SDG (A3B0002-02)												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	Q-05
Ethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	R-06
Xylenes, total	ND	---	3.00	ug/L	1	---	ND	---	---	---	30%	R-06
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	Q-05
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.80	ug/L	1	---	ND	---	---	---	30%	NR
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
n-Hexane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0019 - EPA 5030C						Water						
Duplicate (23B0019-DUP2)			Prepared: 02/01/23 09:52 Analyzed: 02/01/23 17:45									
QC Source Sample: Non-SDG (A3B0002-02)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Matrix Spike (23B0019-MS1)			Prepared: 02/01/23 09:52 Analyzed: 02/01/23 13:40									
QC Source Sample: Non-SDG (A3A0992-01)												
EPA 8260D												
Benzene	20.0	---	0.200	ug/L	1	20.0	ND	100	79-120%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	ND	103	80-121%	---	---	
Ethylbenzene	21.6	---	0.500	ug/L	1	20.0	ND	108	79-121%	---	---	
Xylenes, total	65.6	---	1.50	ug/L	1	60.0	ND	109	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	18.5	---	1.00	ug/L	1	20.0	ND	93	71-124%	---	---	
Naphthalene	19.0	---	2.00	ug/L	1	20.0	ND	95	61-128%	---	---	
1,2-Dibromoethane (EDB)	20.1	---	0.500	ug/L	1	20.0	ND	101	77-121%	---	---	
1,2-Dichloroethane (EDC)	22.5	---	0.500	ug/L	1	20.0	ND	112	73-128%	---	---	
Isopropylbenzene	22.6	---	1.00	ug/L	1	20.0	ND	113	72-131%	---	---	
1,2,4-Trimethylbenzene	22.2	---	1.00	ug/L	1	20.0	ND	111	76-124%	---	---	
1,3,5-Trimethylbenzene	22.1	---	1.00	ug/L	1	20.0	ND	110	75-124%	---	---	
n-Hexane	23.6	---	2.00	ug/L	1	20.0	ND	118	48-143%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 93 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						
Blank (23B0089-BLK1)			Prepared: 02/02/23 08:24		Analyzed: 02/02/23 16:33							
EPA 8260D												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		106 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

LCS (23B0089-BS1)

Prepared: 02/02/23 08:24 Analyzed: 02/02/23 15:48

EPA 8260D												
Benzene	18.5	---	0.200	ug/L	1	20.0	---	92	80-120%	---	---	
Toluene	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Xylenes, total	64.5	---	1.50	ug/L	1	60.0	---	107	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	18.1	---	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
Naphthalene	19.1	---	2.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.8	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,2-Dichloroethane (EDC)	23.1	---	0.500	ug/L	1	20.0	---	115	80-120%	---	---	
Isopropylbenzene	21.9	---	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
1,2,4-Trimethylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,3,5-Trimethylbenzene	20.3	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
n-Hexane	19.3	---	2.00	ug/L	1	20.0	---	97	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 89 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 103 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 94 % 80-120 % "</i>												

Apex Laboratories

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Philip Nerenberg, Lab Director



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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						

Duplicate (23B0089-DUP1)

Prepared: 02/02/23 15:24 Analyzed: 02/02/23 19:31

QC Source Sample: Non-SDG (A3A1031-01)

Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
n-Hexane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%

Surr: 1,4-Difluorobenzene (Surr)	Recovery: 92 %	Limits: 80-120 %	Dilution: 1x
Toluene-d8 (Surr)	106 %	80-120 %	"
4-Bromofluorobenzene (Surr)	100 %	80-120 %	"

Duplicate (23B0089-DUP2)

Prepared: 02/02/23 15:24 Analyzed: 02/02/23 21:01

QC Source Sample: MW-13-0123 (A3B0012-04)

EPA 8260D

Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%
n-Hexane	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%

Surr: 1,4-Difluorobenzene (Surr)	Recovery: 92 %	Limits: 80-120 %	Dilution: 1x
----------------------------------	----------------	------------------	--------------

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Philip Nerenberg, Lab Director



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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0089 - EPA 5030C						Water						
Duplicate (23B0089-DUP2)			Prepared: 02/02/23 15:24 Analyzed: 02/02/23 21:01									
QC Source Sample: MW-13-0123 (A3B0012-04)												
Surr: Toluene-d8 (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23B0089-MS1)			Prepared: 02/02/23 15:24 Analyzed: 02/03/23 01:29									
QC Source Sample: Non-SDG (A3B0029-01)												
EPA 8260D												
Benzene	29.1	---	0.200	ug/L	1	20.0	ND	101	79-120%	---	---	
Toluene	21.2	---	1.00	ug/L	1	20.0	ND	106	80-121%	---	---	
Ethylbenzene	24.7	---	0.500	ug/L	1	20.0	ND	112	79-121%	---	---	
Xylenes, total	68.2	---	1.50	ug/L	1	60.0	ND	114	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	18.3	---	1.00	ug/L	1	20.0	ND	92	71-124%	---	---	
Naphthalene	22.2	---	2.00	ug/L	1	20.0	1.14	106	61-128%	---	---	
1,2-Dibromoethane (EDB)	20.9	---	0.500	ug/L	1	20.0	ND	104	77-121%	---	---	
1,2-Dichloroethane (EDC)	22.6	---	0.500	ug/L	1	20.0	ND	113	73-128%	---	---	
Isopropylbenzene	24.3	---	1.00	ug/L	1	20.0	0.660	118	72-131%	---	---	
1,2,4-Trimethylbenzene	24.2	---	1.00	ug/L	1	20.0	ND	116	76-124%	---	---	
1,3,5-Trimethylbenzene	23.0	---	1.00	ug/L	1	20.0	ND	115	75-124%	---	---	
n-Hexane	23.5	---	2.00	ug/L	1	20.0	ND	117	48-143%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 90 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Mike Staton

Report ID:

A3B0012 - 02 07 23 1205

QUALITY CONTROL (QC) SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23B0110 - EPA 5030C						Water						
Blank (23B0110-BLK1)			Prepared: 02/02/23 14:41 Analyzed: 02/02/23 17:18									
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						
LCS (23B0110-BS1)			Prepared: 02/02/23 14:41 Analyzed: 02/02/23 16:25									
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	0.188	0.0100	0.0200	ug/L	1	0.200	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Duplicate (23B0110-DUP1)			Prepared: 02/02/23 14:41 Analyzed: 02/02/23 18:12									
QC Source Sample: MW-7-0123 (A3B0012-01)												
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	ND	0.0310	0.0310	ug/L	1	---	ND	---	---	---	30%	R-02
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Matrix Spike (23B0110-MS1)			Prepared: 02/02/23 14:41 Analyzed: 02/02/23 23:09									
QC Source Sample: MW-32-0123 (A3B0012-11)												
EPA 8260D SIM												
1,2-Dibromoethane (EDB)	0.194	0.0100	0.0200	ug/L	1	0.200	ND	91	77-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23B0019							
A3B0012-02	Water	NWTPH-Gx (MS)	01/31/23 10:51	02/01/23 11:09	5mL/5mL	5mL/5mL	1.00
A3B0012-03	Water	NWTPH-Gx (MS)	01/31/23 12:18	02/01/23 11:09	5mL/5mL	5mL/5mL	1.00
Batch: 23B0089							
A3B0012-01RE1	Water	NWTPH-Gx (MS)	01/30/23 16:46	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-04	Water	NWTPH-Gx (MS)	01/31/23 11:38	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-05	Water	NWTPH-Gx (MS)	01/30/23 11:14	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-06	Water	NWTPH-Gx (MS)	01/31/23 10:11	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-07	Water	NWTPH-Gx (MS)	01/31/23 09:26	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-08	Water	NWTPH-Gx (MS)	01/31/23 13:07	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-09	Water	NWTPH-Gx (MS)	01/30/23 10:19	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-10	Water	NWTPH-Gx (MS)	01/30/23 12:14	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-11	Water	NWTPH-Gx (MS)	01/31/23 12:32	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-12	Water	NWTPH-Gx (MS)	01/31/23 13:20	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-13	Water	NWTPH-Gx (MS)	01/31/23 00:00	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23B0089							
A3B0012-12	Water	EPA 8260D	01/31/23 13:20	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-13	Water	EPA 8260D	01/31/23 00:00	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23B0019							
A3B0012-01	Water	EPA 8260D	01/30/23 16:46	02/01/23 11:09	5mL/5mL	5mL/5mL	1.00
A3B0012-02	Water	EPA 8260D	01/31/23 10:51	02/01/23 11:09	5mL/5mL	5mL/5mL	1.00
A3B0012-03	Water	EPA 8260D	01/31/23 12:18	02/01/23 11:09	5mL/5mL	5mL/5mL	1.00
Batch: 23B0089							
A3B0012-04	Water	EPA 8260D	01/31/23 11:38	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-05	Water	EPA 8260D	01/30/23 11:14	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-06	Water	EPA 8260D	01/31/23 10:11	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00

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Philip Nerenberg, Lab Director



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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Mike Staton**

Report ID:

A3B0012 - 02 07 23 1205

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3B0012-07	Water	EPA 8260D	01/31/23 09:26	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-08	Water	EPA 8260D	01/31/23 13:07	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-09	Water	EPA 8260D	01/30/23 10:19	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-10	Water	EPA 8260D	01/30/23 12:14	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00
A3B0012-11	Water	EPA 8260D	01/31/23 12:32	02/02/23 15:24	5mL/5mL	5mL/5mL	1.00

1,2-Dibromoethane (EDB) by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23B0110</u>							
A3B0012-01	Water	EPA 8260D SIM	01/30/23 16:46	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-02	Water	EPA 8260D SIM	01/31/23 10:51	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-03	Water	EPA 8260D SIM	01/31/23 12:18	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-04	Water	EPA 8260D SIM	01/31/23 11:38	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-05	Water	EPA 8260D SIM	01/30/23 11:14	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-06	Water	EPA 8260D SIM	01/31/23 10:11	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-07	Water	EPA 8260D SIM	01/31/23 09:26	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-08	Water	EPA 8260D SIM	01/31/23 13:07	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-09	Water	EPA 8260D SIM	01/30/23 10:19	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-10	Water	EPA 8260D SIM	01/30/23 12:14	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00
A3B0012-11	Water	EPA 8260D SIM	01/31/23 12:32	02/02/23 14:41	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Mike Staton

Report ID:

A3B0012 - 02 07 23 1205

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- A-01** ISTD failed above the reporting limit due to auto sampler malfunction. Data is valid to report because the rest of the samples are in range.
- E** Estimated Value. The result is above the calibration range of the instrument.
- NR** Not Reported.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-06** Reporting level raised due to possible carryover from a previous sample.

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Project Manager: **Mike Staton**

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A3B0012 - 02 07 23 1205

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

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A3B0012 - 02 07 23 1205

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Project Number: 128.02207.00003

Project Manager: Mike Staton

Report ID:

A3B0012 - 02 07 23 1205

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Report ID:

A3B0012 - 02 07 23 1205

APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		CHAIN OF CUSTODY		Lab # <u>A3B0012</u> coc <u>1</u> of <u>2</u>	
Company: <u>SLR</u>	Project Mgr: <u>Mike Staton</u>	Project Name: <u>Sea-Tac Development</u>	Project #: <u>128.02207.00003</u>		
Address: <u>22118 20th Ave SE Ste G202 Bothell WA</u>		Phone: <u>(425) 462-8800</u>	Email: <u>mstaton@slrconsulting.com</u>		
Sampled by: <u>Emily Hernandez</u>					
Site Location:					
State: <u>WA</u>	County: _____				
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID
<u>MW-7-0123</u>	<u>1/31/23</u>	<u>1049</u>	<u>water</u>	<u>5</u>	
<u>MW-09-0123</u>	<u>1/31/23</u>	<u>1051</u>			
<u>MW-12-0123</u>	<u>1/31/23</u>	<u>1218</u>			
<u>MW-13-0123</u>	<u>1/31/23</u>	<u>1138</u>			
<u>MW-15-0123</u>	<u>1/31/23</u>	<u>1114</u>			
<u>MW-19-0123</u>	<u>1/31/23</u>	<u>1011</u>			
<u>MW-17A-0123</u>	<u>1/31/23</u>	<u>0929</u>			
<u>MW-18-0123</u>	<u>1/31/23</u>	<u>1307</u>			
<u>MW-22-0123</u>	<u>1/31/23</u>	<u>1019</u>			
<u>Port-MW-B-0123</u>	<u>1/31/23</u>	<u>1214</u>			
Standard Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) <u>1 Day</u> <u>2 Day</u> <u>3 Day</u> <u>5 Day</u> <u>Standard</u> Other: _____					
SPECIAL INSTRUCTIONS:					
SAMPLES ARE HELD FOR 30 DAYS					
RELINQUISHED BY: Signature: <u>[Signature]</u> Date: <u>1/31/23</u> Printed Name: <u>Emily Hernandez</u> Company: <u>SLR</u>	RECEIVED BY: Signature: <u>[Signature]</u> Date: <u>2/1/23</u> Printed Name: <u>Alyssa Wilbur</u> Company: <u>Apex</u>	RELINQUISHED BY: Signature: _____ Date: _____ Printed Name: _____ Company: _____	RECEIVED BY: Signature: _____ Date: _____ Printed Name: _____ Company: _____		

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Mike Staton

Report ID:

A3B0012 - 02 07 23 1205

APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A3 B0012

Project/Project #: SeaTac Development / 128.02207.00003

Delivery Info:

Date/time received: 2/1/23 @ 11:13 By: AAW

Delivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐

Cooler Inspection Date/time inspected: 2/1/23 @ 11:13 By: AAW

Chain of Custody included? Yes ☒ No ☐

Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.5</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐

Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 2-1-23 @ 1130 By: DSS

All samples intact? Yes ☒ No ☐ Comments:

Bottle labels/COCs agree? Yes ☒ No ☐ Comments:

COC/container discrepancies form initiated? Yes ☐ No ☒

Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:

Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments P01-MW-B-01235 7/3 Sed 5/5

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments:

Additional information: TB # 3234

Labeled by:

DSS

Witness:

h

Cooler Inspected by:

DSS

Form Y-003 R-00 -

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.