

CONFIRMATIONAL GROUNDWATER MONITORING REPORT – APRIL 2023 SAMPLING EVENT

SeaTac Development Site (MasterPark Lot C Property)

Prepared for:

Mr. Vance Atkins

Washington Department of Ecology

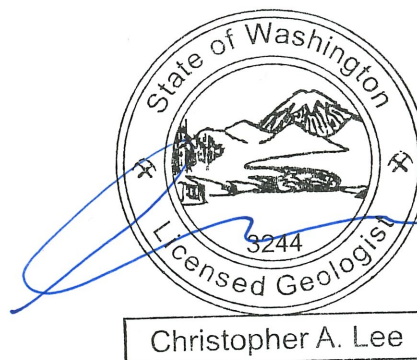
July 2023



Confirmational Groundwater Monitoring Report - April 2023 Sampling Event

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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.



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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
MTCA	Model Toxics Control Act
ORP	oxygen reduction potential
QA	quality assurance
QC	quality control
SLR	SLR International Corporation

1. INTRODUCTION

On April 11, 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 Model Toxics Control Act (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 and January 2023 quarterly monitoring event showed that none of the samples contained analyte concentrations greater than the Site cleanup levels (SLR, 2023a and SLR, 2023b).

2. GROUNDWATER SAMPLING EVENT

On April 11, 2023, SLR personnel collected groundwater samples from monitoring wells MW-07, MW-09, MW-12, MW-13, 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 and were not sampled during this event.

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 the groundwater samples were submitted to Apex for analysis of the groundwater COCs for the Site (benzene, toluene, ethylbenzene, total xylenes, naphthalene, 1,2-dibromoethane [EDB], and n-hexane by EPA Method 8260D; and GRO by Ecology Method NWTTPH-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 April 11, 2023, the depths to groundwater in the monitoring wells ranged from 44.25 to 106.59 feet below the top of each well casing. The groundwater elevations in the wells ranged from 310.02 to 312.60 above mean sea level (MSL). The depth to groundwater measurements and groundwater elevations in the monitoring wells on April 11, 2023, are presented in Table 2.

Based on the groundwater elevations on April 11, 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 April 11, 2023, is presented on Figure 3.

2.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

The groundwater sample analytical results showed that the sample from MW-12 contained a benzene concentration (7.02 micrograms per liter [$\mu\text{g/L}$]) that exceeded the MTCA Method A cleanup level (5.0 $\mu\text{g/L}$). The duplicate sample from MW-12 (labeled as MW-22-0423) also contained a benzene concentration (8.04 $\mu\text{g/L}$) that exceeded the Method A cleanup level. Additionally, the sample from MW-12 contained a GRO concentration (0.78 milligrams per liter [mg/L]) that was below the Method A cleanup level (0.80 mg/L when benzene is present); however, the duplicate sample from MW-12 contained a GRO concentration (0.90 mg/L) that exceeded the Method A cleanup level. The sample from MW-12 and duplicate sample MW-22-0423 did not contain any other analytes at concentrations greater either the laboratory's method reporting limits (MRLs) or the 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-16, and PORT-MW-B contained at least one analyte concentration above the laboratory's 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 limit (MDL) in any of the groundwater samples, however, the MDL (0.25 $\mu\text{g/L}$) exceeded the Method A cleanup level (0.01 $\mu\text{g/L}$) in all of the samples.

The April 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 April 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 April 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 a Q-54 qualifier to the n-Hexane concentration in the sample from MW-12. Apex defined this qualifier as an indicator that the daily continuing calibration verification recovery for the analyte failed the 20 percent criteria range listed for the EPA method, indicating that the result is an estimated value.

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 MDLs, and Apex did not apply any data qualifiers to those results. The analytical results of the duplicate sample (labeled MW-22-0423) collected from well MW-12 were within an acceptable range.

4. CONCLUSIONS

On April 11, 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 MTCA 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, 2023a) and the third quarterly monitoring event in January 2023 (SLR, 2023b) showed that the groundwater COC concentrations at the Site continued to be below the cleanup levels. The results of this latest quarterly sampling event in April 2023 showed that the COC concentrations at all of the sampled wells, except for MW-12, were below the cleanup levels. The groundwater sample from MW-12 and the duplicate sample from MW-12 contained benzene and/or GRO concentrations that exceeded the Method A cleanup levels.

The groundwater sample analytical results from the confirmational groundwater monitoring program indicate that the IAS/SVE system operations and natural attenuation have reduced the COC concentrations to below the Site cleanup levels, except at one localized area beneath the northwestern corner of the subject property. The GRO and benzene concentrations greater than the MTCA Method A cleanup levels in the April 2023 samples from MW-12 (including the duplicate sample) were the only samples to exceed the Site cleanup levels during the four quarterly confirmational monitoring events. Based on the groundwater sample analytical results over time, it appears that natural attenuation of the remaining petroleum hydrocarbon concentrations is occurring, which should reduce the GRO and benzene concentrations at the MW-12 area to below the cleanup levels. 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.
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- 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.
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- SLR International Corporation. 2021c. *Confirmational Groundwater Monitoring Report – July 2021 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. August.
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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. 2023a. *Confirmational Groundwater Monitoring Report – October 2022 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. January.
- SLR International Corporation. 2023b. *Confirmational Groundwater Monitoring Report – January 2023 Sampling Event, SeaTac Development Site (MasterPark Lot C Property)*. March.

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.

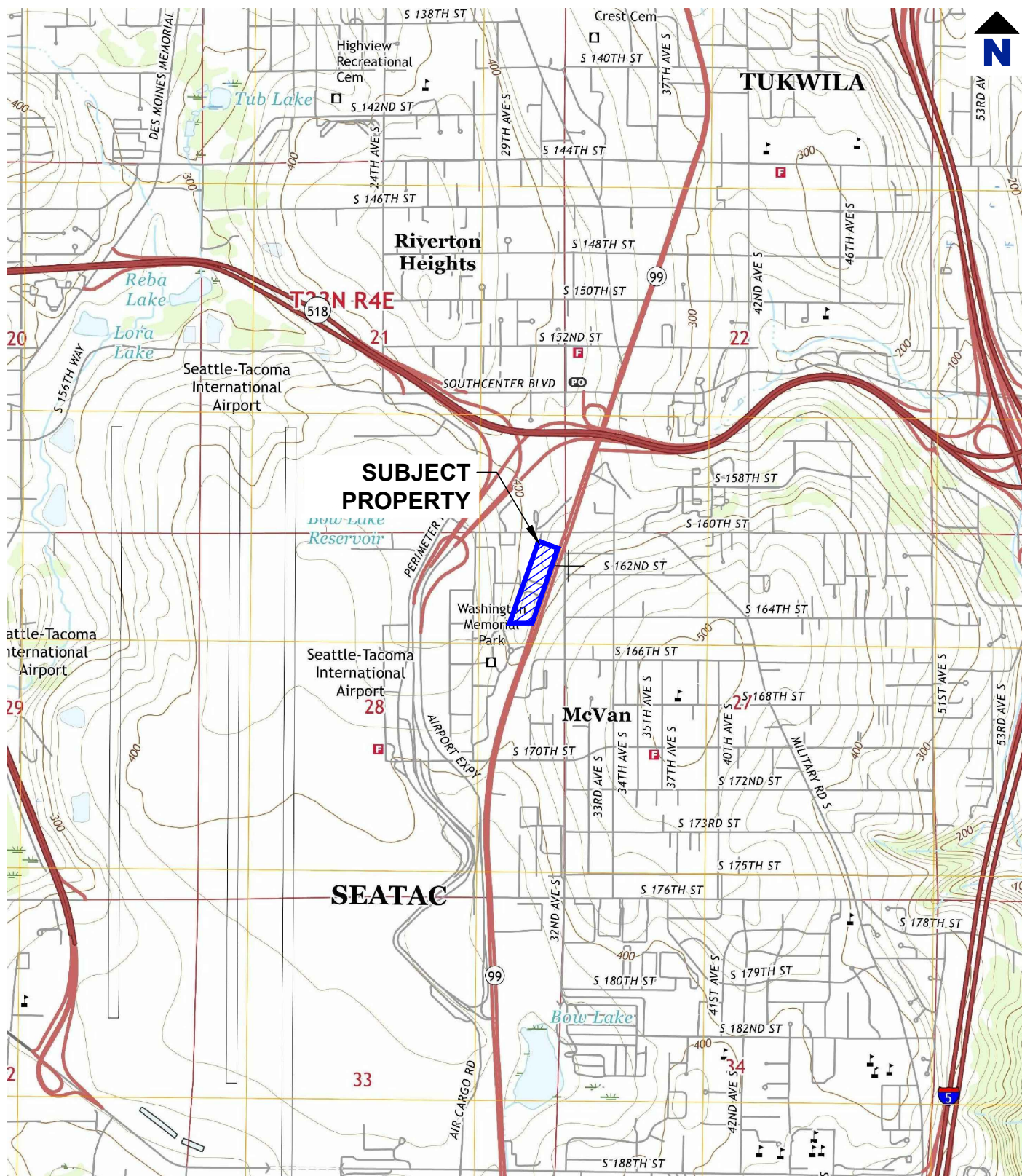
LIMITATIONS

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FIGURES

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REFERENCED FROM :
USGS 7.5 MINUTE QUADRANGLE DES MOINES, 2017

0 2000' 4000'

SEATAC DEVELOPMENT SITE
16025 INTERNATIONAL BLVD
SEATAC, WASHINGTON

Drawing

SUBJECT PROPERTY LOCATION MAP

Date September 19, 2019

Scale AS SHOWN

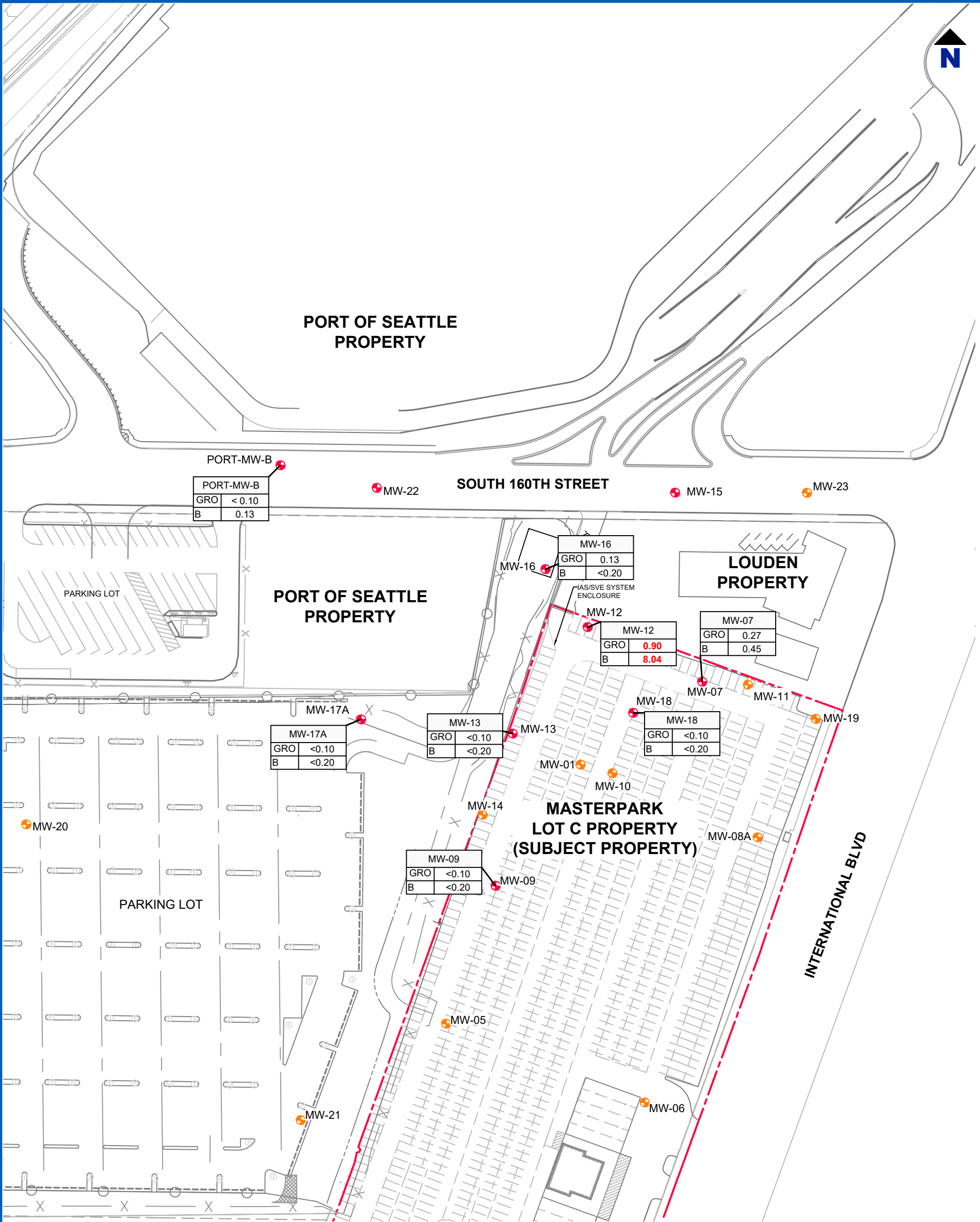
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- NOTES**
1. BASE MAP BASED ON IAS AND SVE PIPING LAYOUT FIGURE (12/02/15) AND GROUNDWATER MONITORING LOCATIONS MAP (05/01/19) PRODUCED BY GOLDER ASSOCIATES, INC.
 2. CONCENTRATIONS IN BOLD AND RED EXCEEDED THE MTCA METHOD A GROUNDWATER CLEANUP LEVEL.
 3. mg/L = MILIGRAMS PER LITER
 4. µg/L = MICROGRAMS PER LITER
 5. DUPLICATE SAMPLE NAMED MW-22-0423 WAS COLLECTED FROM WELL MW-12. RESULTS SHOWN ON THIS FIGURE ARE THE GREATEST OF THE TWO VALUES.

- LEGEND**
- MW-14** SITE MONITORING WELL LOCATION AND DESIGNATION - GROUNDWATER ELEVATIONS MEASURED
- MW-09** SITE MONITORING WELL LOCATION AND DESIGNATION - CONFIRMATIONAL MONITORING WELL
- SUBJECT PROPERTY LINE
- FENCE

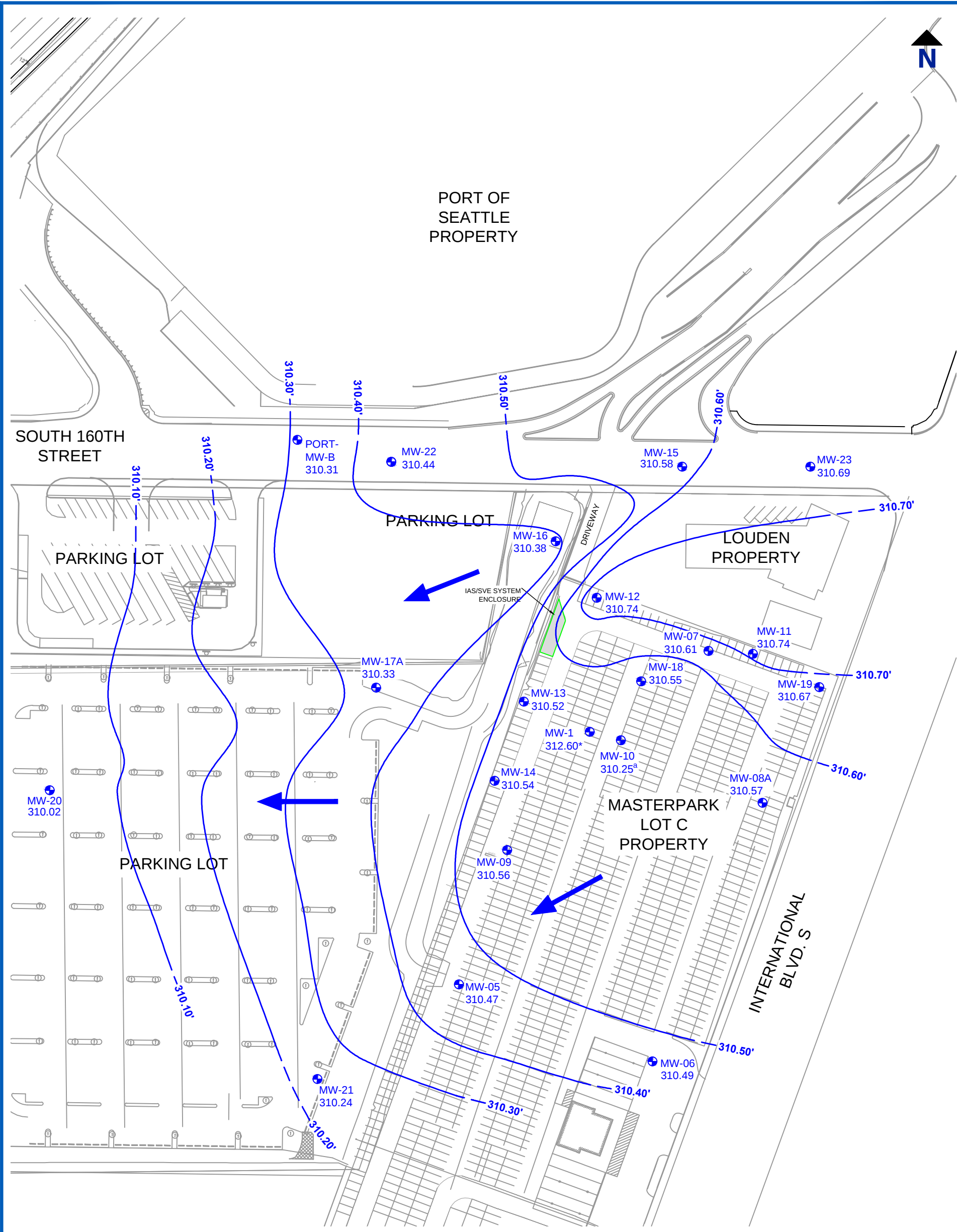
GASOLINE-RANGE ORGANICS		MW-07		SAMPLE LOCATION
		GRO	0.27	
		B	0.45	
BENZENE				ANALYTICAL RESULT IN µg/L



**SEATAC DEVELOPMENT SITE
SEATAC, WASHINGTON**

Drawing
**GRO AND BENZENE CONCENTRATIONS IN
GROUNDWATER SAMPLES - APRIL 2023**

Date	May 16, 2023	Scale	AS SHOWN	Fig. No.
File Name	02-02	Project No.	128.02207.00003	



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

310.24

310.10'

SITE MONITORING WELL LOCATION AND DESIGNATION

GROUNDWATER SURFACE ELEVATION (IN FEET ABOVE MEAN SEA LEVEL) ON APRIL 11, 2023

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 -
APRIL 11, 2023

Date	June 23, 2023	Scale	AS SHOWN	Fig. No.
File Name	02-03	Project No.	128.02207.00003	3

TABLES

Table 1
Groundwater Field Parameters and Sample Analytical Results for Groundwater COCs
April 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 ^a							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	04/11/23	48.08	6.37	15.0	162	0.38	138.3	1.63	0.27	0.45	<1.0	1.03	2.8	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-09	04/11/23	51.57	6.34	13.3	104	4.95	211.6	38.90	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-12	04/11/23	54.09	7.29	14.5	148	0.40	113.2	0.74	0.78	7.02	13.0	30.3	74.5	<0.250 ⁱ	5.83 ^j	5.15	NA	NA	NA	NA
MW-12 Duplicate ^k	04/11/23	-	-	-	-	-	-	-	0.90	8.04	13.90	31.90	77.30	<0.250 ⁱ	5.25	5.31	NA	NA	NA	NA
MW-13	04/11/23	54.90	6.43	13.6	193	3.43	211.7	0.54	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-16	04/11/23	67.25	6.58	12.8	166	0.84	173.7	2.45	0.13	<0.20	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-17A	04/11/23	84.11	6.32	12.5	135	5.09	195.7	6.36	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
MW-18	04/11/23	49.90	6.77	15.1	312	0.80	207.5	0.59	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
PORT-MW-B	04/11/23	89.52	7.27	11.7	114	3.73	202.6	18	<0.10	0.13 J	<1.0	<0.50	<1.5	<0.250 ⁱ	<2.0	<2.0	NA	NA	NA	NA
Notes: Values in bold and red exceed MTCA Method A Cleanup Levels. 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 J = The laboratory noted that the reported result is an estimate. 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 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA Method 8260/8270 by +8%. The result is reported as an estimated value. ^k Duplicate sample named MW-22-0423 and was collected from well MW-12																				

Table 2
Groundwater Monitoring Data - April 11, 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	04/11/23	48.78	312.60
MW-05	364.26	48 to 58	04/11/23	53.79	310.47
MW-06	369.68	50 to 60	04/11/23	59.19	310.49
MW-07	358.69	43.5 to 53.5	04/11/23	48.08	310.61
MW-08A	359.16	44 to 54	04/11/23	48.59	310.57
MW-09	362.13	47.5 to 57	04/11/23	51.57	310.56
MW-10	360.18	80 to 90	04/11/23	49.93	310.25
MW-11	357.53	42 to 57	04/11/23	46.79	310.74
MW-12	364.83	52 to 67	04/11/23	54.09	310.74
MW-13	365.42	50 to 65	04/11/23	54.90	310.52
MW-14	363.76	50 to 65	04/11/23	53.22	310.54
MW-15	364.67	50 to 65	04/11/23	54.09	310.58
MW-16	377.63	64 to 74	04/11/23	67.25	310.38
MW-17A	394.44	80 to 95	04/11/23	84.11	310.33
MW-18	360.45	47 to 62	04/11/23	49.90	310.55
MW-19	356.61	43 to 58	04/11/23	45.94	310.67
MW-20	416.61	103 to 113	04/11/23	106.59	310.02
MW-21	412.85	95 to 110	04/11/23	102.61	310.24
MW-22	393.31	80 to 95	04/11/23	82.87	310.44
MW-23	354.94	42.5 to 57.5	04/11/23	44.25	310.69
PORT-MW-B	399.83	79 to 99	04/11/23	89.52	310.31
Notes:					
^a The top of well casing elevations were surveyed relative to mean seal level.					

APPENDIX A

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEETS



LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLO</u>	Well I.D.: <u>MW- 7</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLO</u>	Sample I.D.: <u>MW- 7 -0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

Date Purged: <u>04-11-2023</u>	Start (2400hr): <u>1421</u>	End (2400hr): <u>1430</u>
Date Sampled: <u>04-11-2023</u>	Sample Time (2400hr): <u>1430</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>52.97</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>48.78</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)
0	1421	14.8	1597	—	4.13	6.86	113.1	0.96	Clear
2	1424	15.0	1604	—	0.84	6.35	130.3	11.6	↓
4	1427	15.0	1604	—	0.97	6.35	135.1	3.94	
6	1430	15.0	1610	—	0.37	6.35	137.4	2.67	
8	1433	15.0	1613	—	0.36	6.37	138.0	3.11	
1	1436	15.0	1616	—	0.38	6.37	138.3	1.63	

PURGING & SAMPLING EQUIPMENT		SAMPLE VESSELS	
☒ Well Wizard Bladder Pump	☐ Bailer (disposable)	☐ 40mL VOA	☐ mL HDPE w/ H2SO4
☐ Active Extraction Well Pump	☐ Bailer (PVC)	☒ 40mL VOA w/ HCL	_____
☐ Submersible Pump	☐ Bailer (Stainless Steel)	☐ mL amber glass	_____
☐ Peristaltic Pump	☒ Dedicated ☐ Tubing	☐ mL amber glass w/ HCl	_____
Other: _____		☐ mL HDPE	_____
Pump Intake Depth: <u>50.95</u> (feet)		☐ mL HDPE w/ HNO3	_____

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

Signature: <u>[Signature]</u>	Page 1 of <u>1</u>
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LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLo</u>	Well I.D.: <u>MW- 9</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLo</u>	Sample I.D.: <u>MW- 9-0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

Date Purged: <u>04-11-2023</u>	Start (2400hr): <u>1157</u>	End (2400hr): <u>1220</u>
Date Sampled: <u>04-11-2023</u>	Sample Time (2400hr): <u>1220</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)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60) ()

Total depth (feet) = <u>57</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>51.57</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>1157</u>	<u>12.4</u>	<u>11636</u>	<u>—</u>	<u>7.65</u>	<u>6.81</u>	<u>157.4</u>	<u>0.81</u>	<u>clear</u>
<u>.2</u>	<u>1200</u>	<u>12.6</u>	<u>11052</u>	<u>—</u>	<u>6.43</u>	<u>6.70</u>	<u>161.8</u>	<u>74.7</u>	<u>—</u>
<u>.4</u>	<u>1203</u>	<u>12.6</u>	<u>10875</u>	<u>—</u>	<u>6.37</u>	<u>6.58</u>	<u>172.3</u>	<u>67.7</u>	<u>—</u>
<u>.6</u>	<u>1206</u>	<u>12.6</u>	<u>10908</u>	<u>—</u>	<u>5.89</u>	<u>6.46</u>	<u>185.5</u>	<u>53.6</u>	<u>—</u>
<u>.8</u>	<u>1209</u>	<u>12.6</u>	<u>10955</u>	<u>—</u>	<u>5.50</u>	<u>6.41</u>	<u>194.3</u>	<u>48.1</u>	<u>—</u>
<u>1</u>	<u>1212</u>	<u>13.1</u>	<u>11000</u>	<u>—</u>	<u>5.23</u>	<u>6.38</u>	<u>203.0</u>	<u>44.6</u>	<u>—</u>
<u>1.2</u>	<u>1215</u>	<u>13.2</u>	<u>11019</u>	<u>—</u>	<u>5.10</u>	<u>6.38</u>	<u>206.6</u>	<u>44.1</u>	<u>—</u>
<u>1.4</u>	<u>1218</u>	<u>13.3</u>	<u>11040</u>	<u>—</u>	<u>4.95</u>	<u>6.34</u>	<u>211.6</u>	<u>38.9</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 _____ Tubing Other: _____ Pump Intake Depth: <u>53.45</u> (feet)	_____ 40mL VOA _____ mL HDPE w/ H2SO4 <u>5</u> 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: _____	Page 1 of 1
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SLR International Corp

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLo</u>	Well I.D.: <u>MW-13</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLo</u>	Sample I.D.: <u>MW-13-0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

Date Purged: <u>04-11-2023</u>	Start (2400hr): <u>1234</u>	End (2400hr): <u>1252</u>
Date Sampled: <u>04-11-2023</u>	Sample Time (2400hr): <u>1252</u>	

Casing Diameter: 2" ☒ 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>65.40</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>54.90</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)	NTU Turbidity (Visual)	Color (Visual)
0	1234	13.6	1962	—	5.85	6.43	168.8	2.94	Clear
.2	1237	13.5	1924	—	4.16	6.40	179.5	2.74	↓
.4	1240	13.6	1915	—	4.03	6.37	191.8	1.65	
.6	1243	13.6	1920	—	3.74	6.39	198.3	1.13	
.8	1246	13.6	1924	—	3.63	6.40	205.2	0.80	
1	1249	13.6	1930	—	3.47	6.41	210.3	0.66	
1.2	1252	13.6	1932	—	3.43	6.43	211.7	0.54	

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: <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: _____	Page 1 of _1_
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LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLO</u>	Well I.D.: <u>MW- 116</u>
Project Name: <u>Masterpark Lot C 128</u>		Sampled By: <u>EH/SLO</u>	Sample I.D.: <u>MW-116-0423</u>
Location: <u>SeaTac Development</u>		QA Samples: _____	

Date Purged: <u>04- 11 -2023</u>	Start (2400hr): <u>1121</u>	End (2400hr): <u>1136</u>
Date Sampled: <u>04- 11 -2023</u>	Sample Time (2400hr): <u>1136</u>	

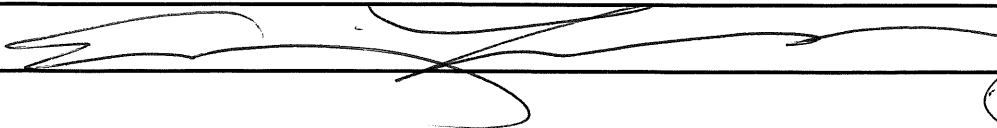
Casing Diameter: <u>2" X</u>	<u>3"</u>	<u>4"</u>	<u>5"</u>	<u>6"</u>	<u>8"</u>	Other _____
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60) ()

Total depth (feet) = <u>73.80</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>67.25</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) ^{NTU}	Color (Visual)
<u>0</u>	<u>1121</u>	<u>12.0</u>	<u>1609</u>	<u>—</u>	<u>8.42</u>	<u>6.73</u>	<u>165.6</u>	<u>0.78</u>	<u>Clear</u>
<u>.2</u>	<u>1124</u>	<u>12.7</u>	<u>1624</u>	<u>—</u>	<u>1.71</u>	<u>6.68</u>	<u>170.2</u>	<u>11.0</u>	<u> </u>
<u>.4</u>	<u>1127</u>	<u>12.7</u>	<u>1610</u>	<u>—</u>	<u>1.01</u>	<u>6.63</u>	<u>170.3</u>	<u>8.30</u>	<u> </u>
<u>.6</u>	<u>1130</u>	<u>12.7</u>	<u>1625</u>	<u>—</u>	<u>0.88</u>	<u>6.61</u>	<u>171.1</u>	<u>4.52</u>	<u> </u>
<u>.8</u>	<u>1133</u>	<u>12.8</u>	<u>1639</u>	<u>—</u>	<u>0.87</u>	<u>6.59</u>	<u>172.5</u>	<u>3.95</u>	<u> </u>
<u>1</u>	<u>1136</u>	<u>12.8</u>	<u>1655</u>	<u>—</u>	<u>0.84</u>	<u>6.58</u>	<u>173.7</u>	<u>2.45</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 _____ Tubing Other: _____ Pump Intake Depth: <u>71.20</u> (feet)	_____ 40mL VOA _____ mL HDPE w/ H2SO4 <u>5</u> 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: 	Page 1 of 1
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LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLo</u>	Well I.D.: <u>MW- 17A</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLo</u>	Sample I.D.: <u>MW- 17A0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

Date Purged: <u>04- 11 -2023</u>	Start (2400hr): <u>1044</u>	End (2400hr): <u>1102</u>
Date Sampled: <u>04- 11 -2023</u>	Sample Time (2400hr): <u>1102</u>	

Casing Diameter: 2" ☒ 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>94.77</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>84.11</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>1044</u>	<u>12.8</u>	<u>.1347</u>	<u>—</u>	<u>7.19</u>	<u>6.67</u>	<u>155.2</u>	<u>1.17</u>	<u>clear</u>
<u>.2</u>	<u>1047</u>	<u>12.6</u>	<u>.1339</u>	<u>—</u>	<u>5.43</u>	<u>6.41</u>	<u>165.5</u>	<u>21.4</u>	↓
<u>.4</u>	<u>1050</u>	<u>12.6</u>	<u>.1337</u>	<u>—</u>	<u>5.47</u>	<u>6.37</u>	<u>171.2</u>	<u>15.3</u>	
<u>.6</u>	<u>1053</u>	<u>12.5</u>	<u>.1338</u>	<u>—</u>	<u>5.35</u>	<u>6.33</u>	<u>178.1</u>	<u>9.03</u>	
<u>.8</u>	<u>1056</u>	<u>12.5</u>	<u>.1347</u>	<u>—</u>	<u>5.13</u>	<u>6.33</u>	<u>186.8</u>	<u>7.18</u>	
<u>1</u>	<u>1059</u>	<u>12.6</u>	<u>.1348</u>	<u>—</u>	<u>5.11</u>	<u>6.32</u>	<u>190.5</u>	<u>6.98</u>	
<u>1.2</u>	<u>1102</u>	<u>12.5</u>	<u>.1352</u>	<u>—</u>	<u>5.09</u>	<u>6.32</u>	<u>195.7</u>	<u>6.36</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 _____ Tubing Other: _____ Pump Intake Depth: <u>89.3</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: _____	Page 1 of 1
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LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLo</u>	Well I.D.: <u>MW-18</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLo</u>	Sample I.D.: <u>MW-18-0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

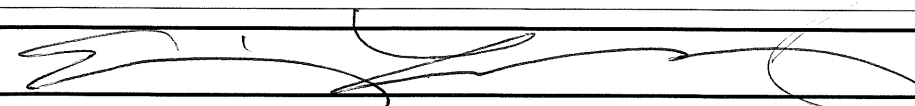
Date Purged: <u>04-11-2023</u>	Start (2400hr): <u>1351</u>	End (2400hr): <u>1409</u>
Date Sampled: <u>04-11-2023</u>	Sample Time (2400hr): <u>1409</u>	

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>61.25</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>49.90</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)
0	1351	13.9	3035	—	7.02	7.26	217.5	0.64	Clear
20	1354	15.1	3230	—	1.81	6.87	215.8	3.24	↓
4	1357	15.0	3087	—	1.31	6.75	214.7	0.84	↓
6	1400	15.0	3080	—	1.13	6.75	212.6	0.88	↓
8	1403	15.1	3101	—	0.98	6.75	210.9	0.60	↓
1	1406	15.1	3111	—	0.87	6.77	209.4	0.46	↓
1.2	1409	15.1	3122	—	0.80	6.77	207.5	0.59	↓

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: <u>5305</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: 	

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>128.02207.00003</u>		Purged By: <u>EH/SLo</u>	Well I.D.: <u>Port MW- B</u>
Project Name: <u>Masterpark Lot C</u>		Sampled By: <u>EH/SLo</u>	Sample I.D.: <u>Port MW- B-0423</u>
Location: <u>SeaTac</u>		QA Samples: _____	

Date Purged: <u>04-11-2023</u>	Start (2400hr): <u>917</u>	End (2400hr): <u>941</u>
Date Sampled: <u>04-11-2023</u>	Sample Time (2400hr): <u>941</u>	

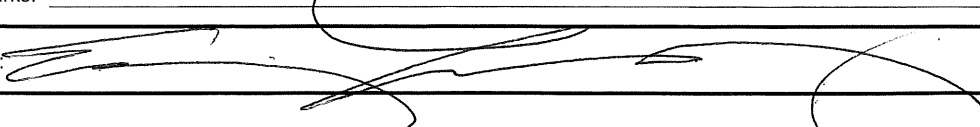
Casing Diameter: 2" <u>X</u> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

Total depth (feet) = <u>99.15</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>89.82</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)
0	917	11.5	1795	—	8.87	7.89	208.3	26.8	Clear
.2	920	12.0	1664	—	6.53	7.75	200.8	23.6	
.4	923	11.9	1440	—	4.87	7.62	192.9	31.2	
.6	926	11.9	1208	—	4.84	7.54	193.3	35.1	
.8	929	11.8	1144	—	4.40	7.44	196.0	29.9	
1	932	11.8	1134	—	4.11	7.39	198.0	24.8	
1.2	935	11.7	1130	—	3.79	7.33	200.2	21.8	
1.4	938	11.7	1137	—	3.72	7.29	201.6	18.5	
1.6	941	11.7	1142	—	3.73	7.27	202.6	17.5	

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: <u>93.72</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: 	Page 1 of 1
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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 (umhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	EDB (ug/L)	N-hexane (ug/L)	Naphthalene (ug/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	< 0.025e	< 2.0	< 2.0	NA	NA	NA	NA
04/11/23	358.69	48.08	310.61	6.37	15.0	162	0.38	38.90	0.27	0.45	< 1.0	1.03	2.8	< 0.250 ^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	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	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										
04/11/23	362.13	51.57	310.56	6.34	13.3	104	4.95	38.90	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^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

mg/L = Milligrams per liter

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
04/11/23	364.83	54.09	310.74	7.29	14.5	148	0.40	0.74	0.9 ^f	8.04 ^f	13.00	30.3	74.5	< 0.250 ^e	5.83	5.15	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.

^f Concentration, which is from a duplicate sample, exceeded the concentration in the designated sample from MW-12.

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 ^a	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 ^a	< 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 ^a	< 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 ^a	< 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 ^a	< 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
04/11/23	365.42	54.90	310.52	6.43	13.6	193	3.43	0.54	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.250 ^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-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	32.0	0.43	0.42	<1.0	0.51	<1.5	<0.250°	<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	<0.020e	<2.0	<2.0	NA	NA
04/11/23	377.63	67.25	310.38	6.58	12.8	166	0.84	2.45	0.13	<0.20	<1.0	<0.50	<1.5	<0.250 ^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 ^d	< 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 ^g	< 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	< 0.250	< 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	1.2	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
04/11/23	394.44	84.11	310.33	6.32	12.5	135	5.09	6.36	< 0.10	< 0.20	< 1.0	< 0.50	< 1.5	< 0.250 ^g	< 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	<0.250	<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
04/11/23	360.45	49.90	310.55	6.77	15.1	312	0.80	0.59	<0.10	<0.20	<1.0	<0.50	<1.5	<0.250 ^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-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 (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
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 ^g	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 ^g	<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	2.8	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

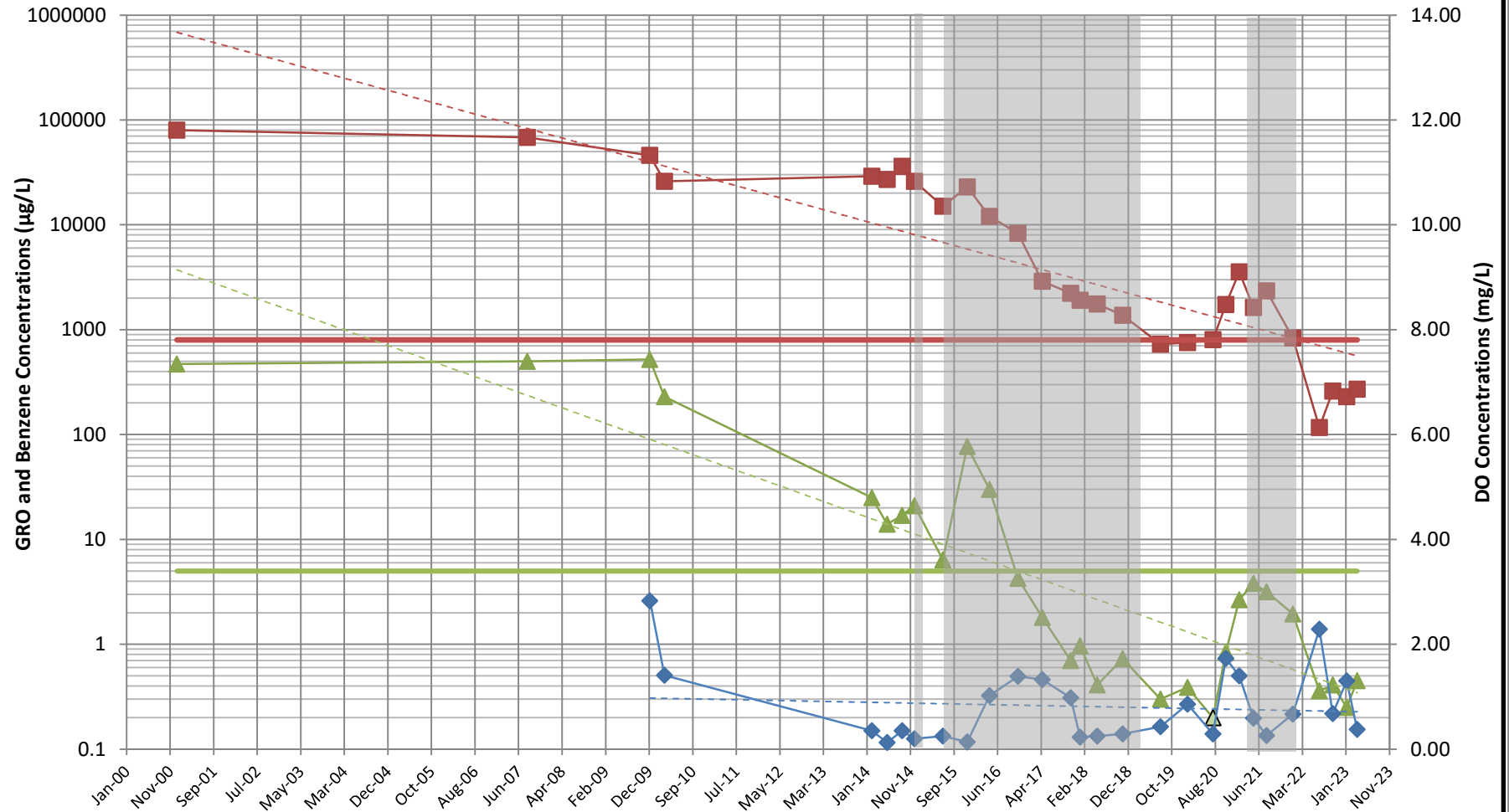
^a Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Tables 720-1, Method A Cleanup Levels for Groundwater.
^b When benzene is present.
^c When benzene is not present.
^d Method B cleanup level used because Method A cleanup level is not established. Standard formula 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 ^g	< 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	89.52	310.73 ^f	7.27	11.7	114	3.73	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	114.00	< 0.10	0.40	< 1.0	1.2	< 1.5	< 0.010	< 2.0	< 2.0	NA	NA	NA	NA
04/11/23	399.83	89.52	310.31	7.27	11.7	114	3.73	18	< 0.10	0.13 J	< 1.0	< 0.50	< 1.5	< 0.250 ^g	< 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

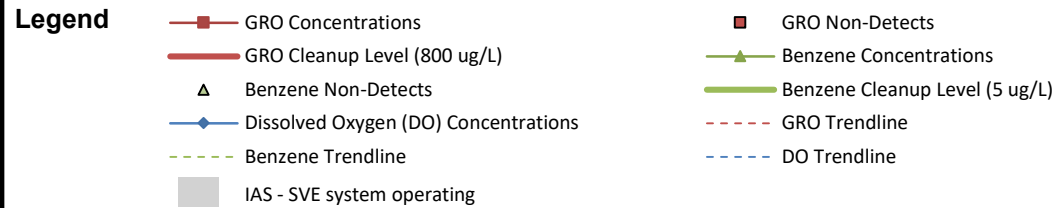
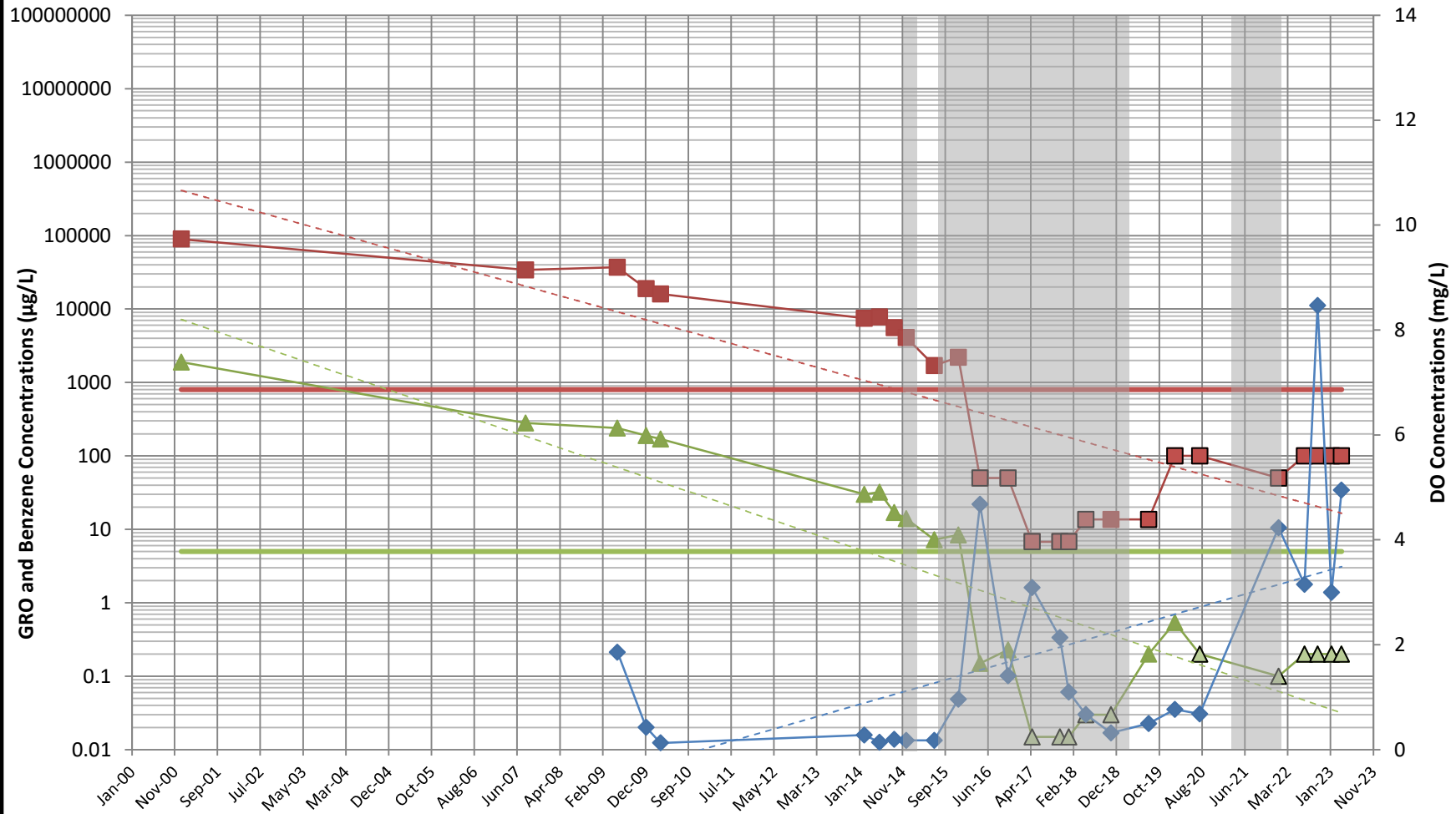
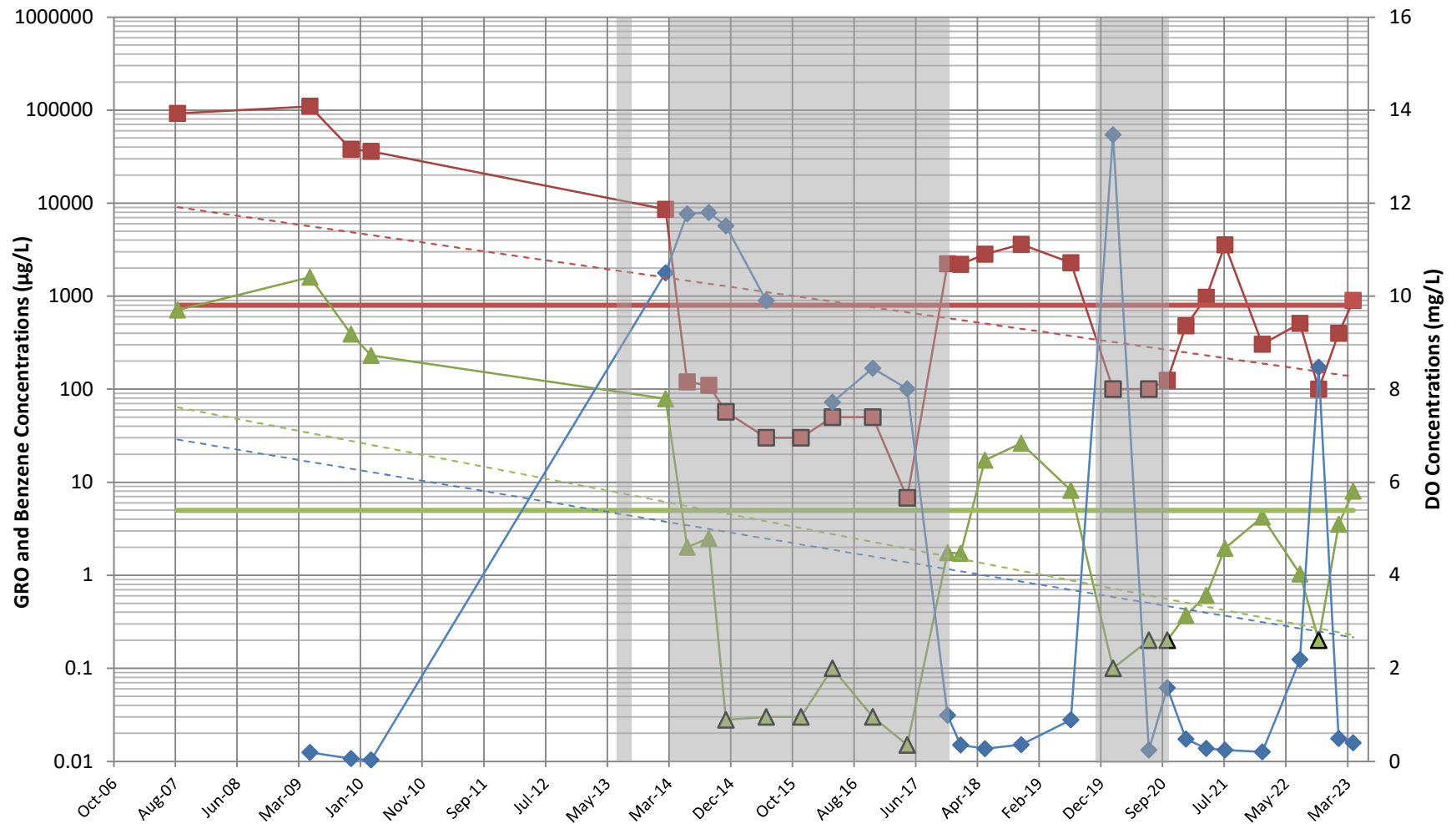


FIGURE B-2
GRO and Benzene Concentrations in
MW-09
SeaTac Development Site

MW-12

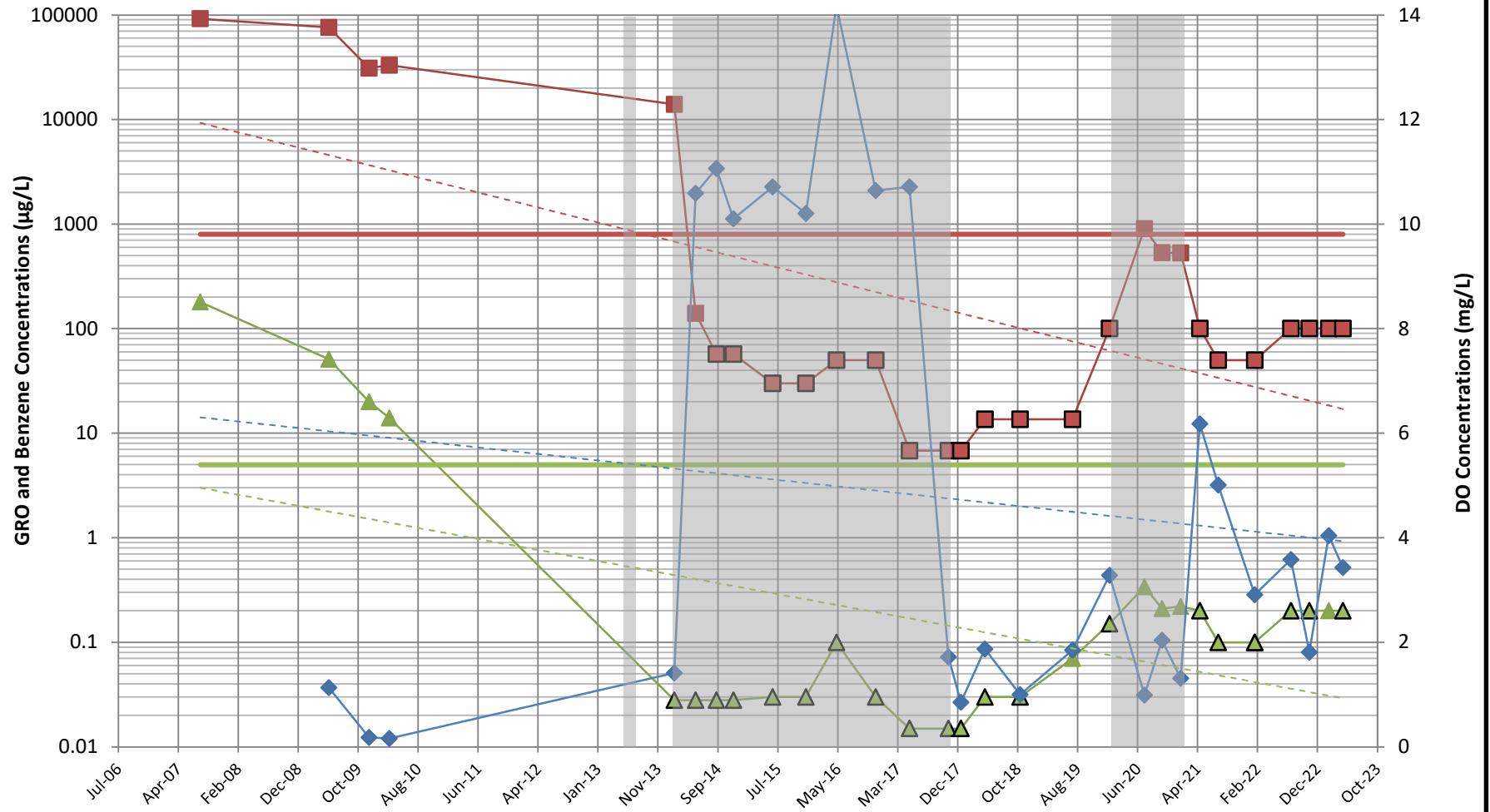


Legend

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

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

MW-13

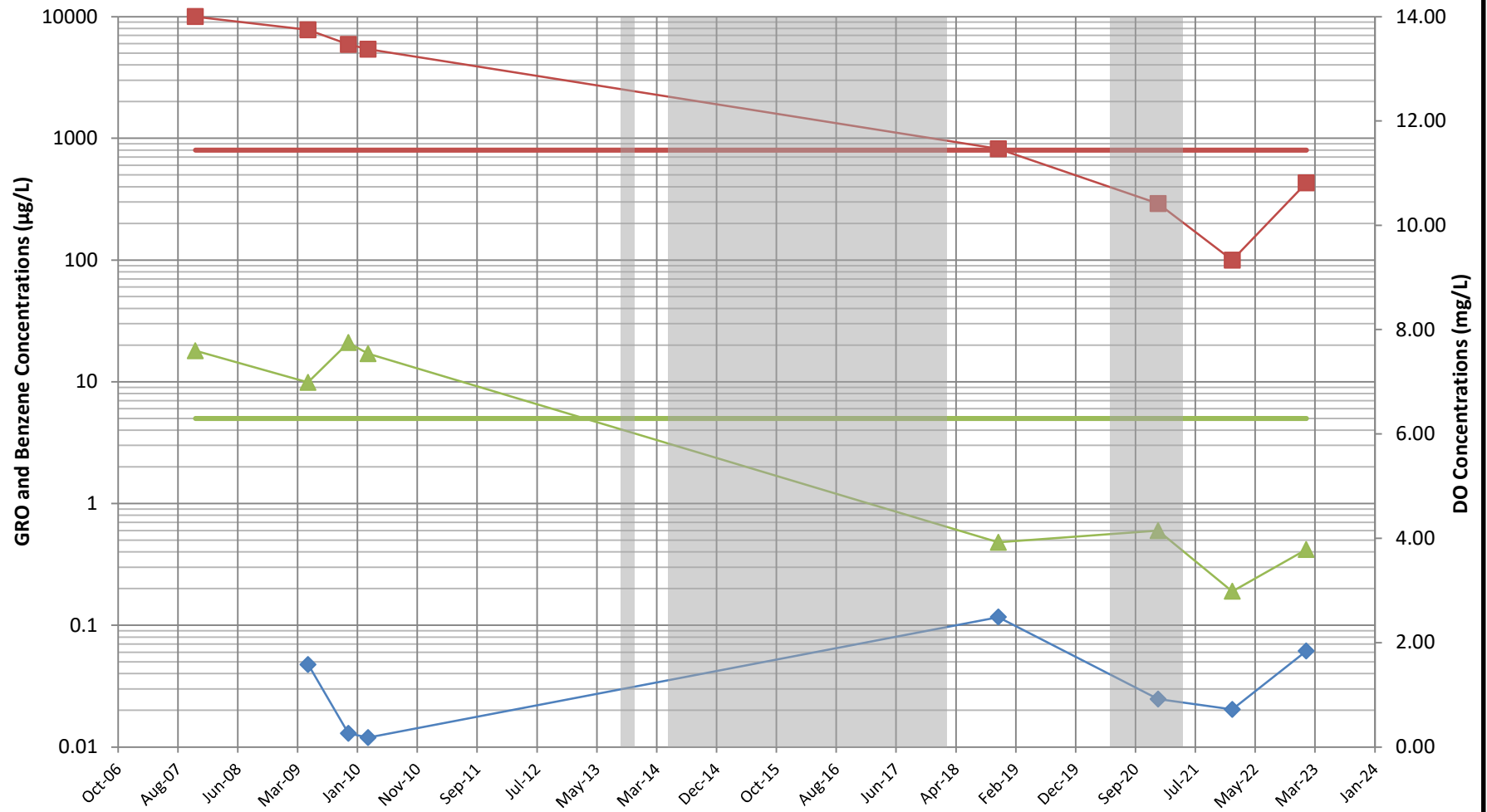


Legend

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

FIGURE B-4
GRO and Benzene Concentrations in
MW-13
SeaTac Development Site

MW-15

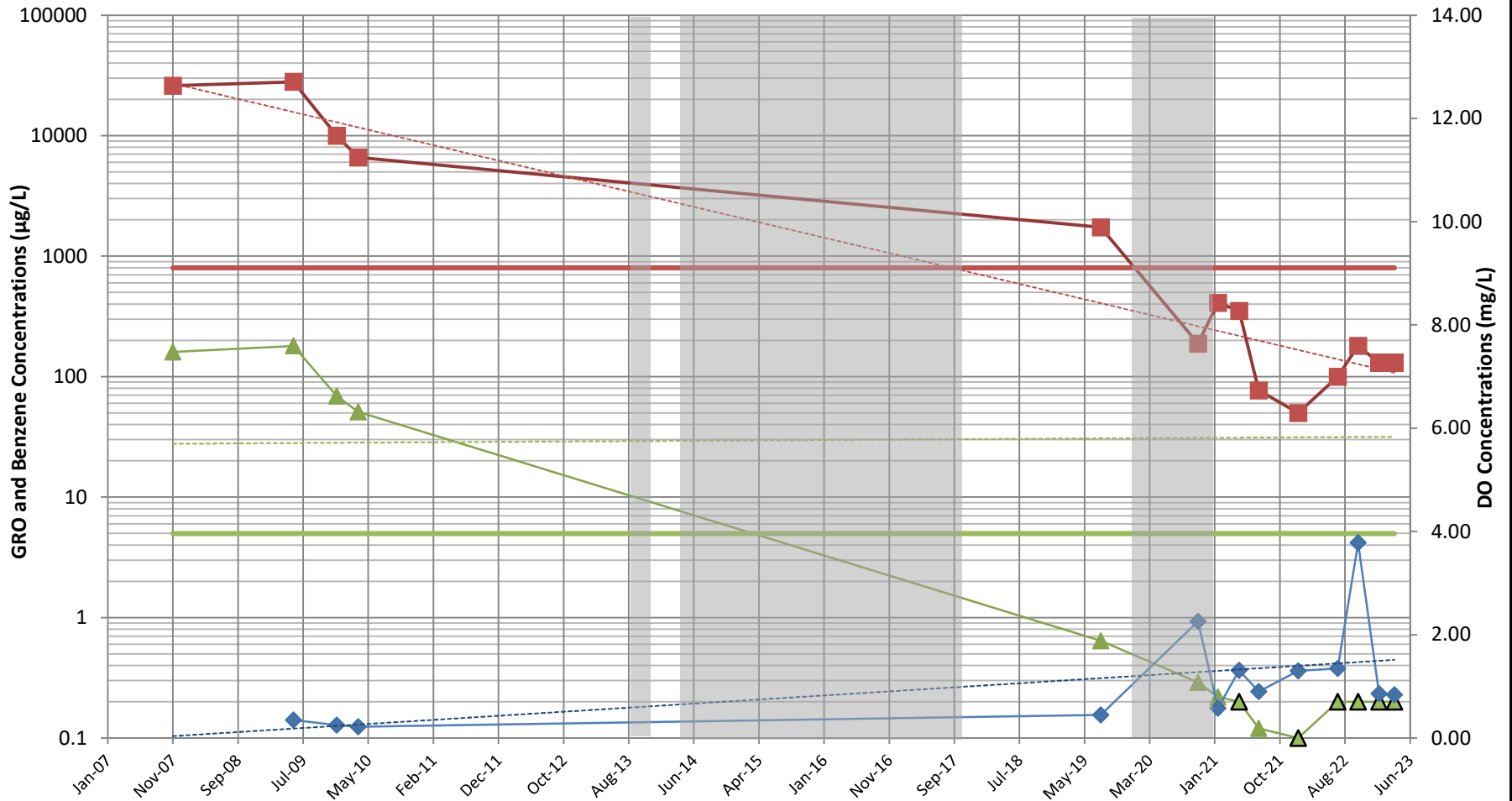


Legend

- 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

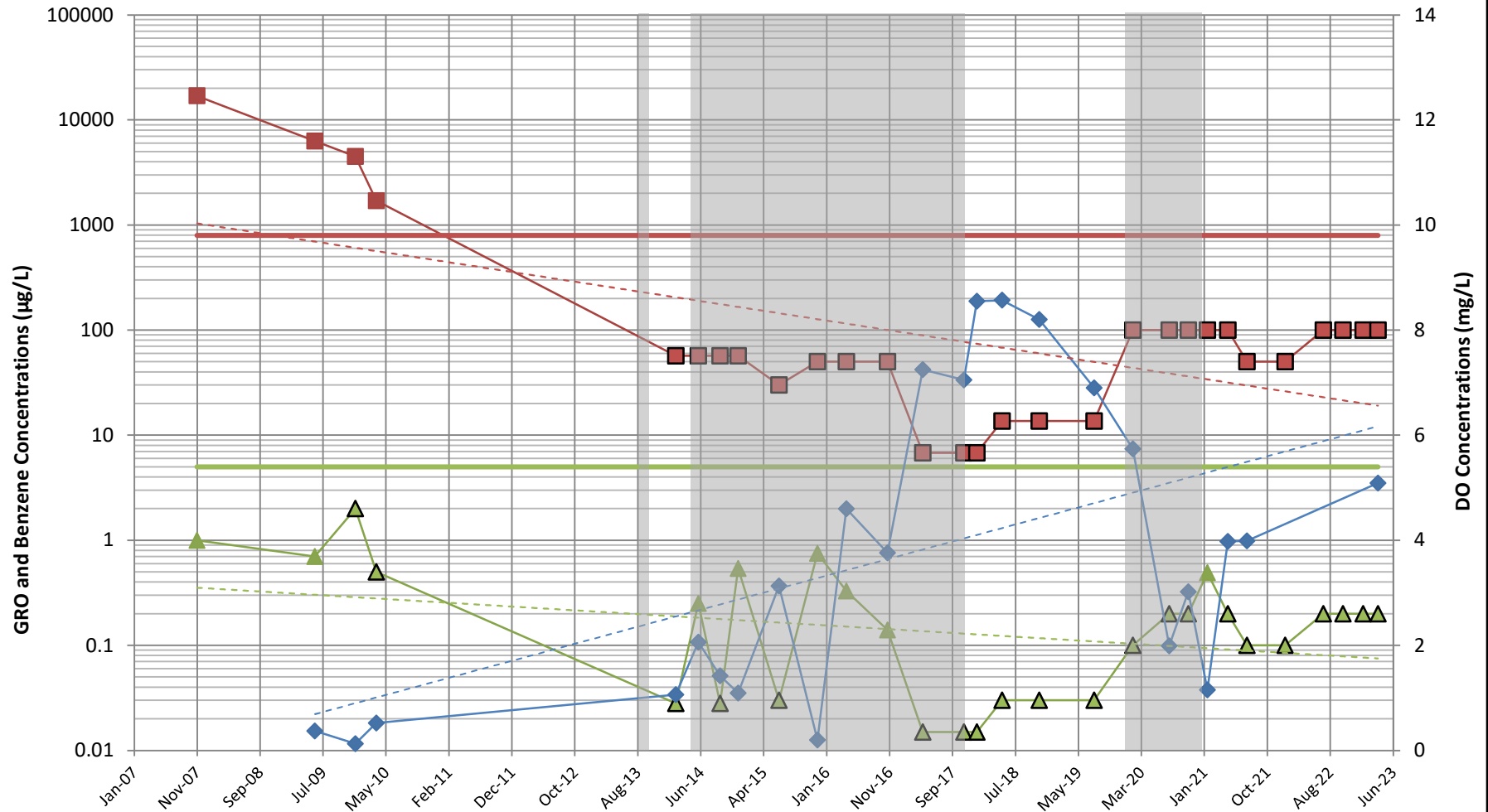


Legend

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

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

MW-17A

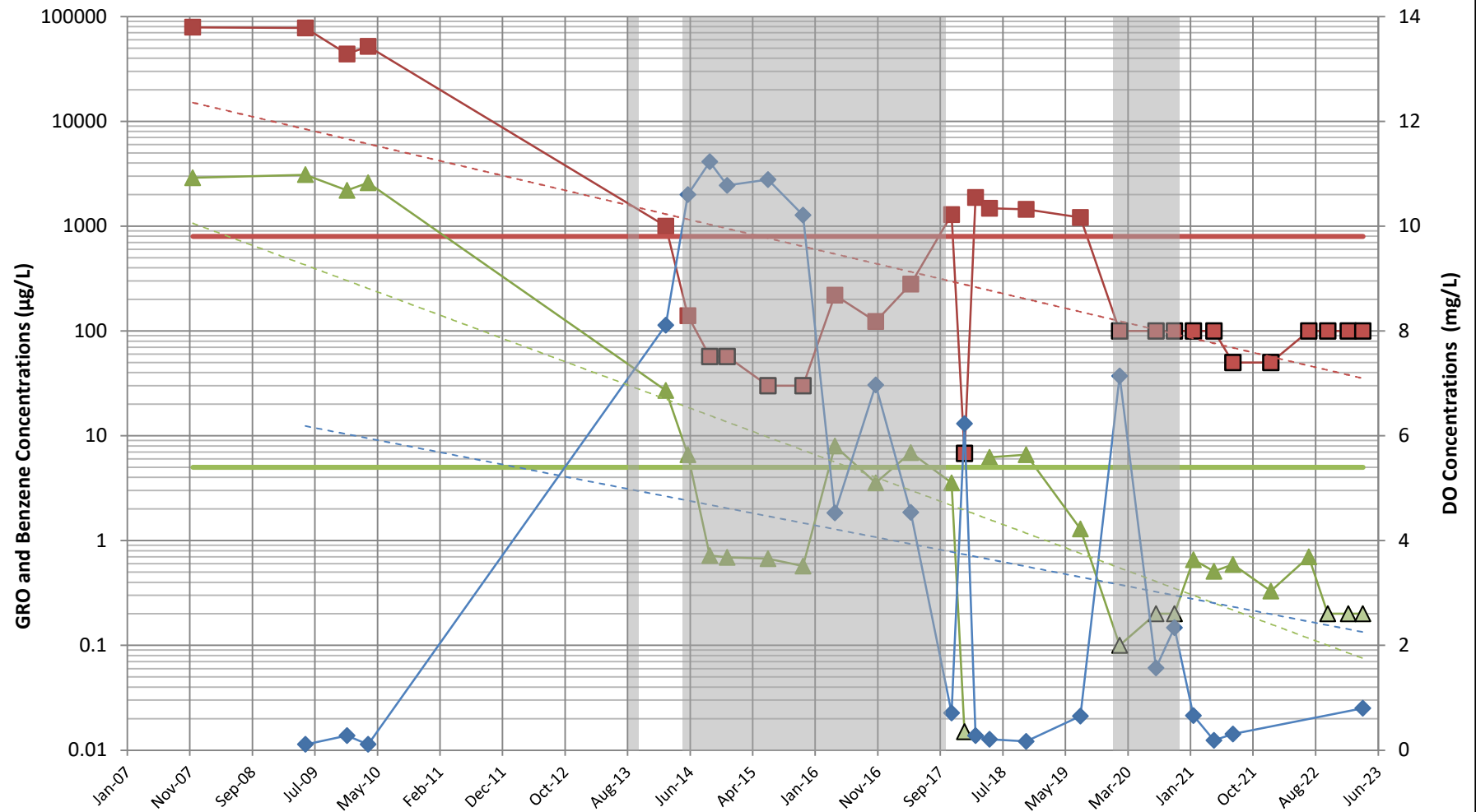


Legend

- 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

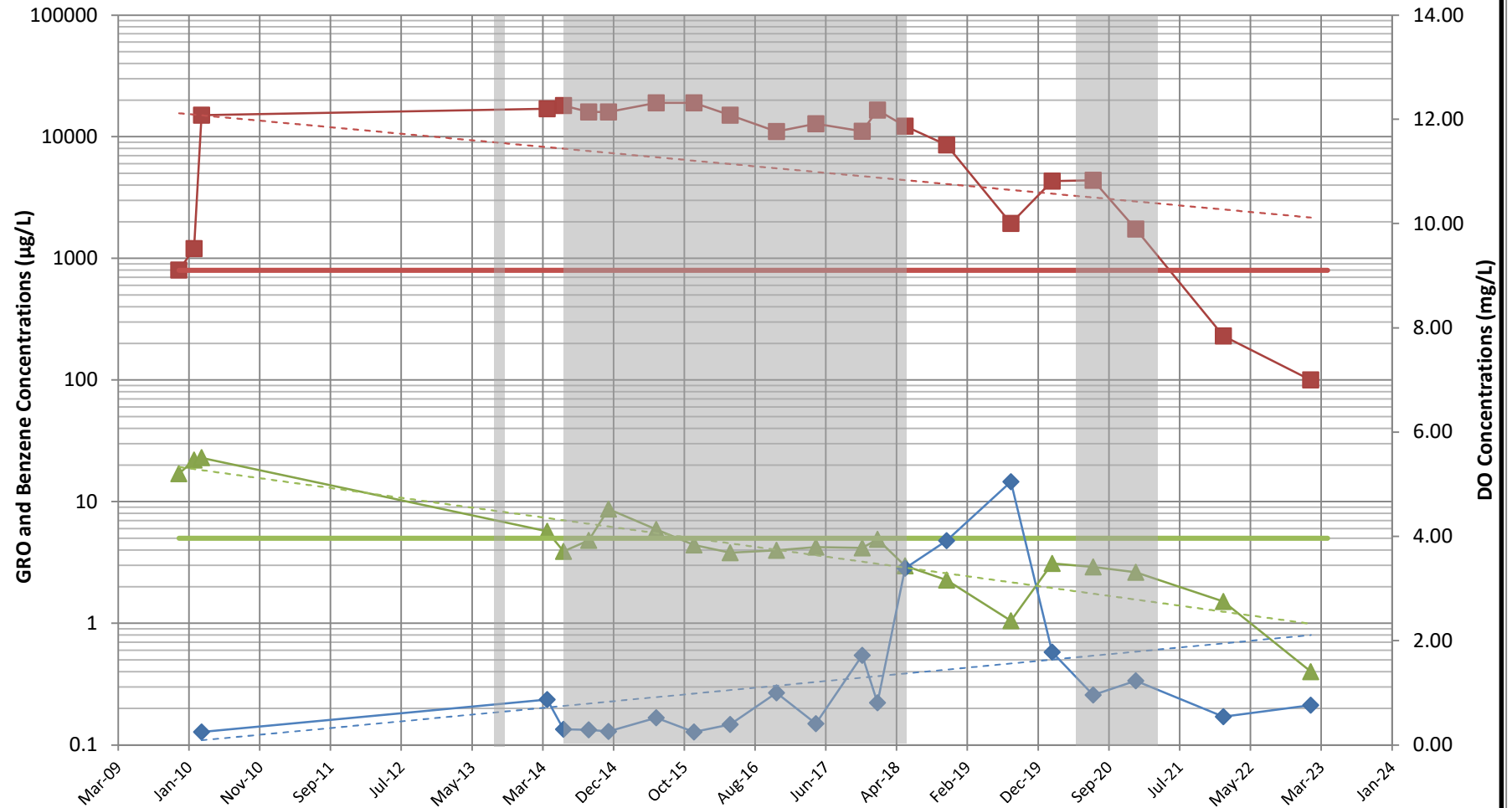


Legend

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

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

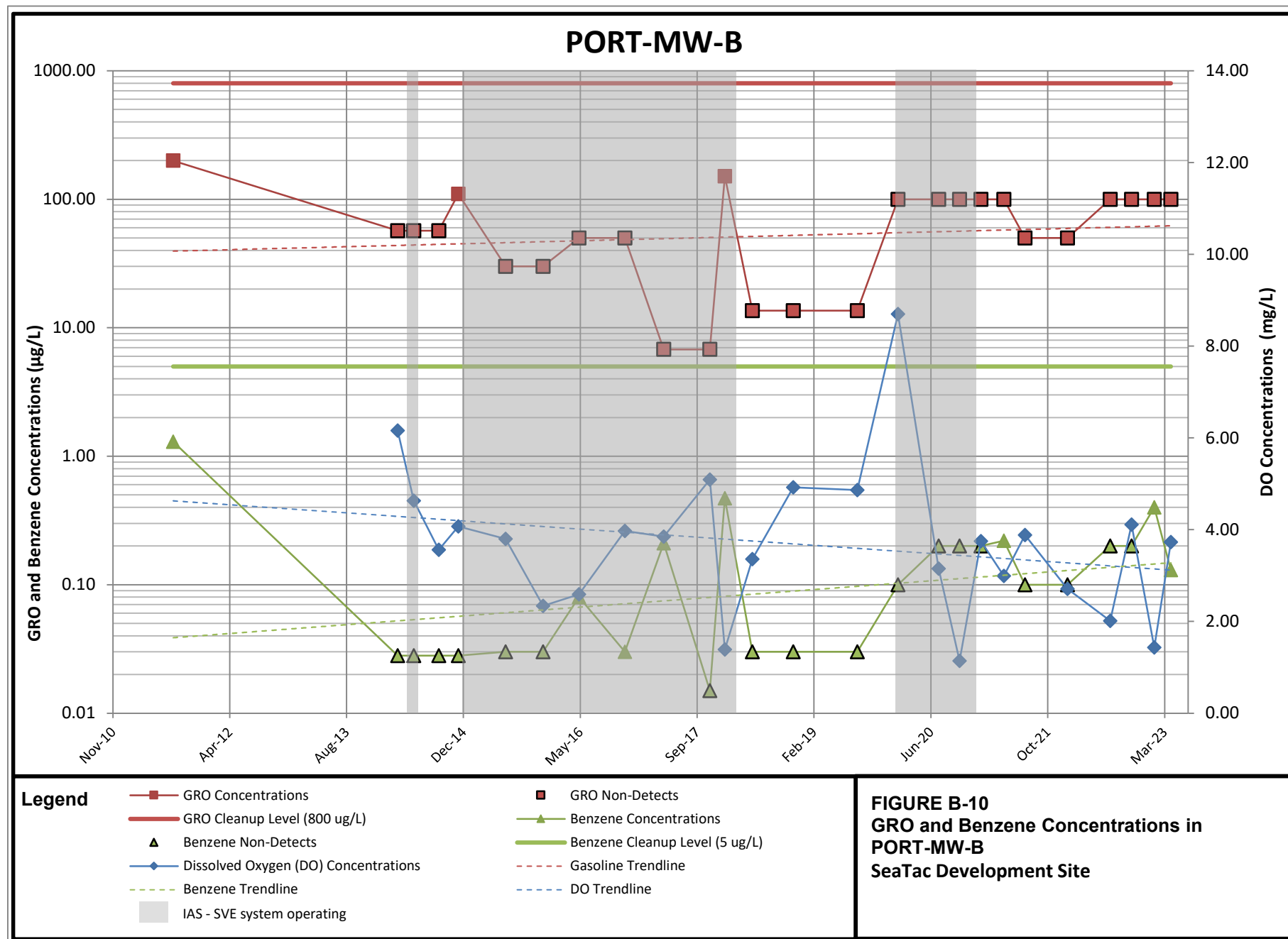
MW-22



Legend

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

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



APPENDIX C

LABORATORY REPORT



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Wednesday, May 3, 2023

Chris Lee
SLR Corporation-Bothell
22118 20th Ave SE, Suite G202
Bothell, WA 98021

RE: A3D1117 - 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 A3D1117, which was received by the laboratory on 4/12/2023 at 10:30:00AM.

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 2.9 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.

**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 98021Project: **Sea-Tac Development Site**Project Number: **128.02207.00003**Project Manager: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-7-0423	A3D1117-01	Water	04/11/23 14:36	04/12/23 10:30
MW-9-0423	A3D1117-02	Water	04/11/23 12:20	04/12/23 10:30
MW-12-0423	A3D1117-03	Water	04/11/23 13:34	04/12/23 10:30
MW-13-0423	A3D1117-04	Water	04/11/23 12:52	04/12/23 10:30
MW-16-0423	A3D1117-05	Water	04/11/23 11:36	04/12/23 10:30
MW-17A-0423	A3D1117-06	Water	04/11/23 11:02	04/12/23 10:30
MW-18-0423	A3D1117-07	Water	04/11/23 14:09	04/12/23 10:30
MW-22-0423	A3D1117-08	Water	04/11/23 13:34	04/12/23 10:30
Port-MW-B-0423	A3D1117-09	Water	04/11/23 09:41	04/12/23 10:30
Equipment Blank-0423	A3D1117-10	Water	04/11/23 14:45	04/12/23 10:30
Trip Blank	A3D1117-11	Water	04/11/23 00:00	04/12/23 10:30

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202
Bothell, WA 98021Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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-7-0423 (A3D1117-01)		Matrix: Water			Batch: 23D0504			
Gasoline Range Organics	271	50.0	100	ug/L	1	04/13/23 15:38	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	04/13/23 15:38	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		91 %	50-150 %	1	04/13/23 15:38	NWTPH-Gx (MS)		
MW-9-0423 (A3D1117-02)		Matrix: Water			Batch: 23D0504			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/13/23 16:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	04/13/23 16:22	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		94 %	50-150 %	1	04/13/23 16:22	NWTPH-Gx (MS)		
MW-12-0423 (A3D1117-03)		Matrix: Water			Batch: 23D0504			
Gasoline Range Organics	778	50.0	100	ug/L	1	04/13/23 16:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	04/13/23 16:45	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		94 %	50-150 %	1	04/13/23 16:45	NWTPH-Gx (MS)		
MW-13-0423 (A3D1117-04)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/14/23 15:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	04/14/23 15:22	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	04/14/23 15:22	NWTPH-Gx (MS)		
MW-16-0423 (A3D1117-05)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	129	50.0	100	ug/L	1	04/14/23 15:44	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	04/14/23 15:44	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	04/14/23 15:44	NWTPH-Gx (MS)		
MW-17A-0423 (A3D1117-06)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/14/23 16:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	04/14/23 16:07	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	04/14/23 16:07	NWTPH-Gx (MS)		
MW-18-0423 (A3D1117-07)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/14/23 16:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 90 %	Limits: 50-150 %	1	04/14/23 16:29	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	04/14/23 16:29	NWTPH-Gx (MS)		
MW-22-0423 (A3D1117-08)		Matrix: Water			Batch: 23D0574			

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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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-22-0423 (A3D1117-08)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	896	50.0	100	ug/L	1	04/14/23 16:52	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	04/14/23 16:52	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		105 %	50-150 %	1	04/14/23 16:52	NWTPH-Gx (MS)		
Port-MW-B-0423 (A3D1117-09)		Matrix: Water			Batch: 23D0574			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/14/23 17:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 95 %	Limits: 50-150 %	1	04/14/23 17:14	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	04/14/23 17:14	NWTPH-Gx (MS)		
Equipment Blank-0423 (A3D1117-10)		Matrix: Water			Batch: 23D0504			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/13/23 13:23	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	04/13/23 13:23	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	04/13/23 13:23	NWTPH-Gx (MS)		
Trip Blank (A3D1117-11)		Matrix: Water			Batch: 23D0504			
Gasoline Range Organics	ND	50.0	100	ug/L	1	04/13/23 13:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 93 %	Limits: 50-150 %	1	04/13/23 13:01	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		101 %	50-150 %	1	04/13/23 13:01	NWTPH-Gx (MS)		

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

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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: **Chris Lee**

Report ID:

A3D1117 - 05 03 23 1716

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Trip Blank (A3D1117-11)		Matrix: Water			Batch: 23D0504			
Benzene	ND	0.100	0.200	ug/L	1	04/13/23 13:01	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/13/23 13:01	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/13/23 13:01	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/13/23 13:01	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/13/23 13:01</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/13/23 13:01</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/13/23 13:01</i>	<i>EPA 8260D</i>	

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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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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-7-0423 (A3D1117-01)				Matrix: Water		Batch: 23D0504		
Benzene	0.450	0.100	0.200	ug/L	1	04/13/23 15:38	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/13/23 15:38	EPA 8260D	
Ethylbenzene	1.03	0.250	0.500	ug/L	1	04/13/23 15:38	EPA 8260D	
Xylenes, total	2.78	0.750	1.50	ug/L	1	04/13/23 15:38	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/13/23 15:38	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/13/23 15:38	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/13/23 15:38	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	04/13/23 15:38	EPA 8260D
Toluene-d8 (Surr)			97 %		80-120 %	1	04/13/23 15:38	EPA 8260D
4-Bromofluorobenzene (Surr)			103 %		80-120 %	1	04/13/23 15:38	EPA 8260D
MW-9-0423 (A3D1117-02)				Matrix: Water		Batch: 23D0504		
Benzene	ND	0.100	0.200	ug/L	1	04/13/23 16:22	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/13/23 16:22	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/13/23 16:22	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/13/23 16:22	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/13/23 16:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/13/23 16:22	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/13/23 16:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	04/13/23 16:22	EPA 8260D
Toluene-d8 (Surr)			98 %		80-120 %	1	04/13/23 16:22	EPA 8260D
4-Bromofluorobenzene (Surr)			107 %		80-120 %	1	04/13/23 16:22	EPA 8260D
MW-12-0423 (A3D1117-03)				Matrix: Water		Batch: 23D0504		
Benzene	7.02	0.100	0.200	ug/L	1	04/13/23 16:45	EPA 8260D	
Toluene	13.0	0.500	1.00	ug/L	1	04/13/23 16:45	EPA 8260D	
Ethylbenzene	30.3	0.250	0.500	ug/L	1	04/13/23 16:45	EPA 8260D	
Xylenes, total	74.5	0.750	1.50	ug/L	1	04/13/23 16:45	EPA 8260D	
Naphthalene	5.15	1.00	2.00	ug/L	1	04/13/23 16:45	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/13/23 16:45	EPA 8260D	
n-Hexane	5.83	1.00	2.00	ug/L	1	04/13/23 16:45	EPA 8260D	Q-54
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	04/13/23 16:45	EPA 8260D
Toluene-d8 (Surr)			99 %		80-120 %	1	04/13/23 16:45	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	04/13/23 16:45	EPA 8260D

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Philip Nerenberg, Lab Director



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 98021Project: **Sea-Tac Development Site**Project Number: **128.02207.00003**Project Manager: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716**

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-13-0423 (A3D1117-04)		Matrix: Water			Batch: 23D0574			
Benzene	ND	0.100	0.200	ug/L	1	04/14/23 15:22	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/14/23 15:22	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/14/23 15:22	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/14/23 15:22	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/14/23 15:22	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 15:22	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/14/23 15:22	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %	1	04/14/23 15:22	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	04/14/23 15:22	EPA 8260D	
4-Bromofluorobenzene (Surr)		101 %		80-120 %	1	04/14/23 15:22	EPA 8260D	
MW-16-0423 (A3D1117-05)		Matrix: Water			Batch: 23D0574			
Benzene	ND	0.100	0.200	ug/L	1	04/14/23 15:44	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/14/23 15:44	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/14/23 15:44	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/14/23 15:44	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/14/23 15:44	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 15:44	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/14/23 15:44	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	04/14/23 15:44	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	04/14/23 15:44	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	04/14/23 15:44	EPA 8260D	
MW-17A-0423 (A3D1117-06)		Matrix: Water			Batch: 23D0574			
Benzene	ND	0.100	0.200	ug/L	1	04/14/23 16:07	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/14/23 16:07	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/14/23 16:07	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/14/23 16:07	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/14/23 16:07	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 16:07	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/14/23 16:07	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	04/14/23 16:07	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	04/14/23 16:07	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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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-0423 (A3D1117-06)		Matrix: Water			Batch: 23D0574			
Surrogate: 4-Bromofluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %	1	04/14/23 16:07	EPA 8260D	
MW-18-0423 (A3D1117-07)		Matrix: Water			Batch: 23D0574			
Benzene	ND	0.100	0.200	ug/L	1	04/14/23 16:29	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/14/23 16:29	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/14/23 16:29	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/14/23 16:29	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/14/23 16:29	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 16:29	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/14/23 16:29	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	04/14/23 16:29	EPA 8260D	
Toluene-d8 (Surr)		104 %		80-120 %	1	04/14/23 16:29	EPA 8260D	
4-Bromofluorobenzene (Surr)		98 %		80-120 %	1	04/14/23 16:29	EPA 8260D	
MW-22-0423 (A3D1117-08)		Matrix: Water			Batch: 23D0574			
Benzene	8.04	0.100	0.200	ug/L	1	04/14/23 16:52	EPA 8260D	
Toluene	13.9	0.500	1.00	ug/L	1	04/14/23 16:52	EPA 8260D	
Ethylbenzene	31.9	0.250	0.500	ug/L	1	04/14/23 16:52	EPA 8260D	
Xylenes, total	77.3	0.750	1.50	ug/L	1	04/14/23 16:52	EPA 8260D	
Naphthalene	5.31	1.00	2.00	ug/L	1	04/14/23 16:52	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 16:52	EPA 8260D	
n-Hexane	5.25	1.00	2.00	ug/L	1	04/14/23 16:52	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	04/14/23 16:52	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	04/14/23 16:52	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	04/14/23 16:52	EPA 8260D	
Port-MW-B-0423 (A3D1117-09)		Matrix: Water			Batch: 23D0574			
Benzene	0.130	0.100	0.200	ug/L	1	04/14/23 17:14	EPA 8260D	J
Toluene	ND	0.500	1.00	ug/L	1	04/14/23 17:14	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/14/23 17:14	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/14/23 17:14	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/14/23 17:14	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/14/23 17:14	EPA 8260D	
n-Hexane	ND	1.00	2.00	ug/L	1	04/14/23 17:14	EPA 8260D	

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Philip Nerenberg, Lab Director



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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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-0423 (A3D1117-09)		Matrix: Water			Batch: 23D0574			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 80-120 %	1	04/14/23 17:14	EPA 8260D		
Toluene-d8 (Surr)		101 %	80-120 %	1	04/14/23 17:14	EPA 8260D		
4-Bromofluorobenzene (Surr)		101 %	80-120 %	1	04/14/23 17:14	EPA 8260D		
Equipment Blank-0423 (A3D1117-10)		Matrix: Water			Batch: 23D0504			
Benzene	ND	0.100	0.200	ug/L	1	04/13/23 13:23	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/13/23 13:23	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/13/23 13:23	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	04/13/23 13:23	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 99 %	Limits: 80-120 %	1	04/13/23 13:23	EPA 8260D		
Toluene-d8 (Surr)		102 %	80-120 %	1	04/13/23 13:23	EPA 8260D		
4-Bromofluorobenzene (Surr)		102 %	80-120 %	1	04/13/23 13:23	EPA 8260D		

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Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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 23D0504 - EPA 5030C						Water						
Blank (23D0504-BLK1)			Prepared: 04/13/23 11:00 Analyzed: 04/13/23 11:54									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		101 %		50-150 %		"						
LCS (23D0504-BS2)			Prepared: 04/13/23 11:00 Analyzed: 04/13/23 11:31									
NWTPH-Gx (MS)												
Gasoline Range Organics	519	50.0	100	ug/L	1	500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (23D0504-DUP1)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 16:00									
QC Source Sample: MW-7-0423 (A3D1117-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	271	50.0	100	ug/L	1	---	271	---	---	0.2	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		92 %		50-150 %		"						
Duplicate (23D0504-DUP2)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 18:15									
QC Source Sample: Non-SDG (A3D1050-08)												
Gasoline Range Organics	2100	500	1000	ug/L	10	---	2170	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 94 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		97 %		50-150 %		"						
Batch 23D0574 - EPA 5030C						Water						
Blank (23D0574-BLK1)			Prepared: 04/14/23 08:00 Analyzed: 04/14/23 10:32									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 90 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		103 %		50-150 %		"						
LCS (23D0574-BS2)			Prepared: 04/14/23 08:00 Analyzed: 04/14/23 10:10									

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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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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 23D0574 - EPA 5030C						Water						
LCS (23D0574-BS2)			Prepared: 04/14/23 08:00		Analyzed: 04/14/23 10:10							
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	520	50.0	100	ug/L	1	500	---	104	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 96 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (23D0574-DUP1)			Prepared: 04/14/23 10:00		Analyzed: 04/14/23 12:23							
<u>QC Source Sample: Non-SDG (A3D1159-01)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 95 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (23D0574-DUP2)			Prepared: 04/14/23 10:00		Analyzed: 04/14/23 14:37							
<u>QC Source Sample: Non-SDG (A3D1198-03)</u>												
Gasoline Range Organics	ND	50.0	100	ug/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						

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Bothell, WA 98021

Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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 23D0504 - EPA 5030C						Water						
Blank (23D0504-BLK1)			Prepared: 04/13/23 11:00 Analyzed: 04/13/23 11:54									
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23D0504-BS1)			Prepared: 04/13/23 11:00 Analyzed: 04/13/23 11:00									
EPA 8260D												
Benzene	19.9	0.100	0.200	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Ethylbenzene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Xylenes, total	63.6	0.750	1.50	ug/L	1	60.0	---	106	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						
Duplicate (23D0504-DUP1)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 16:00									
QC Source Sample: MW-7-0423 (A3D1117-01)												
EPA 8260D												
Benzene	0.440	0.100	0.200	ug/L	1	---	0.450	---	---	2	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	1.05	0.250	0.500	ug/L	1	---	1.03	---	---	2	30%	
Xylenes, total	2.76	0.750	1.50	ug/L	1	---	2.78	---	---	0.7	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
Duplicate (23D0504-DUP2)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 18:15									
QC Source Sample: Non-SDG (A3D1050-08)												
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716**

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 23D0504 - EPA 5030C						Water						
Duplicate (23D0504-DUP2)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 18:15									
QC Source Sample: Non-SDG (A3D1050-08)												
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	3.00	2.50	5.00	ug/L	10	---	3.10	---	---	3	30%	
Xylenes, total	ND	7.50	15.0	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Matrix Spike (23D0504-MS1)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 21:36									
QC Source Sample: Non-SDG (A3D1088-02)												
EPA 8260D												
Benzene	210	1.00	2.00	ug/L	10	200	ND	105	79-120%	---	---	
Toluene	211	5.00	10.0	ug/L	10	200	ND	106	80-121%	---	---	
Ethylbenzene	221	2.50	5.00	ug/L	10	200	ND	110	79-121%	---	---	
Xylenes, total	648	7.50	15.0	ug/L	10	600	ND	108	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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Bothell, WA 98021

Project: **Sea-Tac Development Site**Project Number: **128.02207.00003**Project Manager: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716**

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 23D0504 - EPA 5030C						Water						
Blank (23D0504-BLK1)			Prepared: 04/13/23 11:00		Analyzed: 04/13/23 11:54							
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23D0504-BS1)						Prepared: 04/13/23 11:00		Analyzed: 04/13/23 11:00				
EPA 8260D												
Benzene	19.9	0.100	0.200	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Ethylbenzene	21.6	0.250	0.500	ug/L	1	20.0	---	108	80-120%	---	---	
Xylenes, total	63.6	0.750	1.50	ug/L	1	60.0	---	106	80-120%	---	---	
Naphthalene	20.0	1.00	2.00	ug/L	1	20.0	---	100	80-120%	---	---	
n-Hexane	25.7	1.00	2.00	ug/L	1	20.0	---	128	80-120%	---	---	Q-56
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						
Duplicate (23D0504-DUP1)						Prepared: 04/13/23 11:42		Analyzed: 04/13/23 16:00				
QC Source Sample: MW-7-0423 (A3D1117-01)												
EPA 8260D												
Benzene	0.440	0.100	0.200	ug/L	1	---	0.450	---	---	2	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	1.05	0.250	0.500	ug/L	1	---	1.03	---	---	2	30%	
Xylenes, total	2.76	0.750	1.50	ug/L	1	---	2.78	---	---	0.7	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Hexane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						

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Philip Nerenberg, Lab Director



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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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	Limits	RPD	RPD Limit	Notes	
Batch 23D0504 - EPA 5030C						Water							
Duplicate (23D0504-DUP1)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 16:00										
QC Source Sample: MW-7-0423 (A3D1117-01)													
Surr: Toluene-d8 (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x							
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"							
Duplicate (23D0504-DUP2)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 18:15										
QC Source Sample: Non-SDG (A3D1050-08)													
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%	J	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%		
Ethylbenzene	3.00	2.50	5.00	ug/L	10	---	3.10	---	---	3	30%		
Xylenes, total	ND	7.50	15.0	ug/L	10	---	ND	---	---	---	30%		
Naphthalene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%		
n-Hexane	29.6	10.0	20.0	ug/L	10	---	30.0	---	---	1	30%	Q-54	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		101 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"							
Matrix Spike (23D0504-MS1)			Prepared: 04/13/23 11:42 Analyzed: 04/13/23 21:36										
QC Source Sample: Non-SDG (A3D1088-02)													
EPA 8260D													
Benzene	210	1.00	2.00	ug/L	10	200	ND	105	79-120%	---	---	Q-54	
Toluene	211	5.00	10.0	ug/L	10	200	ND	106	80-121%	---	---		
Ethylbenzene	221	2.50	5.00	ug/L	10	200	ND	110	79-121%	---	---		
Xylenes, total	648	7.50	15.0	ug/L	10	600	ND	108	79-121%	---	---		
Naphthalene	208	10.0	20.0	ug/L	10	200	ND	104	61-128%	---	---		
n-Hexane	249	10.0	20.0	ug/L	10	200	ND	125	48-143%	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		100 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"							

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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: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716**

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 23D0574 - EPA 5030C						Water						
Blank (23D0574-BLK1)			Prepared: 04/14/23 08:00		Analyzed: 04/14/23 10:32							
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

LCS (23D0574-BS1)

Prepared: 04/14/23 08:00 Analyzed: 04/14/23 09:25

EPA 8260D												
Benzene	19.4	0.100	0.200	ug/L	1	20.0	---	97	80-120%	---	---	
Toluene	20.1	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Ethylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Xylenes, total	61.1	0.750	1.50	ug/L	1	60.0	---	102	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Naphthalene	18.9	1.00	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloroethane (EDC)	19.9	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Isopropylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trimethylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,3,5-Trimethylbenzene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
n-Hexane	23.1	1.00	2.00	ug/L	1	20.0	---	116	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 96 % 80-120 % "</i>												

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Philip Nerenberg, Lab Director



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: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

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 23D0574 - EPA 5030C						Water						
Duplicate (23D0574-DUP1)			Prepared: 04/14/23 10:00 Analyzed: 04/14/23 12:23									
QC Source Sample: Non-SDG (A3D1159-01)												
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
n-Hexane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
Duplicate (23D0574-DUP2)			Prepared: 04/14/23 10:00 Analyzed: 04/14/23 14:37									
QC Source Sample: Non-SDG (A3D1198-03)												
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	0.980	0.500	1.00	ug/L	1	---	0.870	---	---	12	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
n-Hexane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						

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Philip Nerenberg, Lab Director



ANALYTICAL REPORT

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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: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716**

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 23D0574 - EPA 5030C						Water						
Duplicate (23D0574-DUP2)			Prepared: 04/14/23 10:00 Analyzed: 04/14/23 14:37									
QC Source Sample: Non-SDG (A3D1198-03)												
Surr: 4-Bromofluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Matrix Spike (23D0574-MS1)			Prepared: 04/14/23 10:00 Analyzed: 04/14/23 17:36									
QC Source Sample: Port-MW-B-0423 (A3D1117-09)												
EPA 8260D												
Benzene	21.7	0.100	0.200	ug/L	1	20.0	0.130	108	79-120%	---	---	
Toluene	21.1	0.500	1.00	ug/L	1	20.0	ND	106	80-121%	---	---	
Ethylbenzene	22.0	0.250	0.500	ug/L	1	20.0	ND	110	79-121%	---	---	
Xylenes, total	64.3	0.750	1.50	ug/L	1	60.0	ND	107	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	21.7	0.500	1.00	ug/L	1	20.0	ND	109	71-124%	---	---	
Naphthalene	19.8	1.00	2.00	ug/L	1	20.0	ND	99	61-128%	---	---	
1,2-Dibromoethane (EDB)	21.1	0.250	0.500	ug/L	1	20.0	ND	105	77-121%	---	---	
1,2-Dichloroethane (EDC)	21.2	0.250	0.500	ug/L	1	20.0	ND	106	73-128%	---	---	
Isopropylbenzene	22.0	0.500	1.00	ug/L	1	20.0	ND	110	72-131%	---	---	
1,2,4-Trimethylbenzene	21.3	0.500	1.00	ug/L	1	20.0	ND	107	76-124%	---	---	
1,3,5-Trimethylbenzene	21.6	0.500	1.00	ug/L	1	20.0	ND	108	75-124%	---	---	
n-Hexane	25.9	1.00	2.00	ug/L	1	20.0	ND	130	48-143%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		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 98021Project: **Sea-Tac Development Site**Project Number: **128.02207.00003**Project Manager: **Chris Lee****Report ID:****A3D1117 - 05 03 23 1716****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: 23D0504							
A3D1117-01	Water	NWTPH-Gx (MS)	04/11/23 14:36	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-02	Water	NWTPH-Gx (MS)	04/11/23 12:20	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-03	Water	NWTPH-Gx (MS)	04/11/23 13:34	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-10	Water	NWTPH-Gx (MS)	04/11/23 14:45	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-11	Water	NWTPH-Gx (MS)	04/11/23 00:00	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
Batch: 23D0574							
A3D1117-04	Water	NWTPH-Gx (MS)	04/11/23 12:52	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-05	Water	NWTPH-Gx (MS)	04/11/23 11:36	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-06	Water	NWTPH-Gx (MS)	04/11/23 11:02	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-07	Water	NWTPH-Gx (MS)	04/11/23 14:09	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-08	Water	NWTPH-Gx (MS)	04/11/23 13:34	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-09	Water	NWTPH-Gx (MS)	04/11/23 09:41	04/14/23 10:00	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: 23D0504							
A3D1117-11	Water	EPA 8260D	04/11/23 00:00	04/13/23 11:42	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: 23D0504							
A3D1117-01	Water	EPA 8260D	04/11/23 14:36	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-02	Water	EPA 8260D	04/11/23 12:20	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-03	Water	EPA 8260D	04/11/23 13:34	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
A3D1117-10	Water	EPA 8260D	04/11/23 14:45	04/13/23 11:42	5mL/5mL	5mL/5mL	1.00
Batch: 23D0574							
A3D1117-04	Water	EPA 8260D	04/11/23 12:52	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-05	Water	EPA 8260D	04/11/23 11:36	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-06	Water	EPA 8260D	04/11/23 11:02	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-07	Water	EPA 8260D	04/11/23 14:09	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00
A3D1117-08	Water	EPA 8260D	04/11/23 13:34	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00

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Project: **Sea-Tac Development Site**

Project Number: **128.02207.00003**

Project Manager: **Chris Lee**

Report ID:

A3D1117 - 05 03 23 1716

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

				Sample		Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3D1117-09	Water	EPA 8260D	04/11/23 09:41	04/14/23 10:00	5mL/5mL	5mL/5mL	1.00

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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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.

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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.

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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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APEX LABS		CHAIN OF CUSTODY		Lab # A3D1117 COC 1 of 2	
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Project Mgr: Chris Lee		Project Name: Sea-Tac Development	
Company: SLR		Address: 22118 20th Ave SE, Suite G202, Bothell		Phone: 425 402 8800	
Sampled by: Spencer Lo / Emily Hernandez		Site Location:		Project #: 128.02207.00003	
State: WA		County:		PO #	
SAMPLE ID		DATE	TIME	MATRIX	# OF CONTAINERS
MW-7-0423	4/12/23	1430	Water	5	
MW-9-0423	1220				
MW-12-0423	1334				
MW-13-0423	1252				
MW-16-0423	1130				
MW-17A-0423	1102				
MW-18-0423	1409				
MW-22-0423	1334				
Port-MW-B-0423	941				
Equipment Blank-0423	1445				
Standard Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day Standard Other:					
SPECIAL INSTRUCTIONS: Email report copy to Mike Station at mstation@landwin.com					
RECEIVED BY: Signature: Date: 4-12-23		RECEIVED BY: Signature: Date:		RECEIVED BY: Signature: Date:	
Printed Name: Spencer Lo		Printed Name: Daye Salazar		Printed Name:	
Company: SLR		Company: Apex		Company:	

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Project: Sea-Tac Development Site

Project Number: 128.02207.00003

Project Manager: Chris Lee

Report ID:

A3D1117 - 05 03 23 1716

APEXLABS COOLER RECEIPT FORM

Client: SLR Element WO#: A3 D 1117

Project/Project #: Sea Tac Development / 128.02207.00003

Delivery Info:

Date/time received: 4-12-23 @ 1030 By: DJS

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

Cooler Inspection Date/time inspected: 4-12-23 @ 1030 By: DJS

Chain of Custody included? Yes X No

Signed/dated by client? Yes Y No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	29						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes X

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 4-12-23 @ 1220 By: DJS

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

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

Do VOA vials have visible headspace? Yes No X NA

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

Additional information: 3969 0588 1474 #3281

Labeled by:

DJS

Witness:

DJS

Cooler Inspected by:

DJS

Form Y-003 R-00

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