SEATAC DEVELOPMENT SITE (MASTERPARK LOT C PROPERTY)

Performance Groundwater Monitoring Report - January 2020 Sampling Event

Prepared for:

Dr. Jerome Cruz

Washington Department of Ecology

March 2020

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Dr. Jerome Cruz
Washington Department of Ecology
Northwest Regional Office
3190 – 160th Avenue Southeast
Bellevue, WA 98009-5452

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.

Rachel Kane
Project Geologist

State of Washington
695
Licensed Geologist
MICHAEL D. STATON

Michael D. Staton, L.G.
Managing Principal

CONTENTS

ACRONYMS

µg/L	micrograms per liter
mg/L	milligrams per liter
Apex	Apex Laboratories, Inc.
BTEX	benzene, toluene, ethylbenzene, and xylenes
DO	dissolved oxygen
DRO	diesel range organics
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
ORO	oil-range organics
QA	quality assurance
QC	quality control
SLR	SLR International Corporation

1. INTRODUCTION

On January 29 and 30, 2020, SLR International Corporation (SLR) conducted a semiannual performance groundwater monitoring event at the SeaTac Development 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 MasterPark Lot C, 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. Since petroleum hydrocarbon concentrations in the groundwater beneath the northwestern part of the subject property were still above the MTCA Method A cleanup levels in July 2019, SLR reactivated the IAS/SVE system on September 5, 2019. The January 2020 groundwater monitoring activities were conducted in accordance with the Compliance Monitoring Plan (Golder 2011) for the site, except that turbidity measurements were not collected during purging.

2. GROUNDWATER SAMPLING EVENT

On January 29 and 30, 2020, SLR personnel collected groundwater samples from monitoring wells MW-06, MW-07, MW-09, MW-12, MW-13, MW-17A, MW-18, MW-19, MW-20, MW-21, MW-22, and PORT-MW-B. The locations of the groundwater monitoring wells that are included in the performance monitoring program are shown on Figure 2. To sample the groundwater under static conditions, SLR deactivated the IAS/SVE system on January 27, 2020, and it was not reactivated until after the groundwater sampling event had been completed.

Prior to collecting each groundwater sample, the depth to groundwater in the monitoring well was measured by using an electronic water level meter. SLR used the existing dedicated submersible bladder pumping system located at each well to purge approximately 1.0 to 1.6 gallons of water from the well. During the purging of each well, pH, specific conductance, temperature, oxidation-reduction potential, and dissolved oxygen (DO) of the extracted water were measured approximately every four 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. The groundwater sampling activities were documented on Low-Flow Groundwater Sampling Field Data Sheets, which are presented in Appendix A.

In accordance with the Compliance Monitoring Plan, the groundwater samples were submitted to Apex for analyses of benzene, toluene, ethylbenzene, total xylenes, naphthalene, and n-hexane by EPA Method 8260C; 1,2-dibromoethane (EDB) by EPA Method 8260C SIM; and gasoline-range organics (GRO) by Ecology Method NWTPH-Gx. In addition, selected groundwater samples were analyzed for diesel-range organics (DRO) and oil-range organics (ORO) by Ecology Method NWTPH-Dx after silica gel cleanup to monitor the DRO and ORO concentrations in the wells (MW-07, MW-12, MW-18, and MW-22) that have contained DRO and/or ORO concentrations. The DRO and ORO analyses were conducted after silica gel cleanup because Apex informed SLR that polar organics in the groundwater were affecting the semi-volatile petroleum hydrocarbon concentrations in the July 2019 samples.

The purge water was initially collected into 5-gallon buckets during groundwater sampling activities and transferred into properly labeled 55-gallon drums at the subject property. The water in the drums will be transported to a licensed facility for off-site treatment and disposal.

2.1 GROUNDWATER MONITORING RESULTS

On January 29, 2020 SLR personnel measured the depths to groundwater in all of the monitoring wells at the site. The depths to groundwater in the monitoring wells ranged from 44.26 to 106.60 feet below the top of each well casing, and MW-01 was dry during this sampling event. The groundwater elevations in the wells ranged from 294.23 to 310.75 above mean sea level (MSL). Due to a malfunctioning sensitivity dial on the water level meter at the time of the measurements, the groundwater level data collected on January 29, 2020, was unreliable, and a groundwater elevation contour map was not prepared. The depth to groundwater measurements and groundwater elevations in the monitoring wells on January 29, 2020, are presented in Table 2.

2.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

The groundwater sample analytical results showed that the sample from MW-22 contained a GRO concentration (4.32 mg/L) that exceeded the MTCA Method A cleanup level (0.8 mg/L when benzene is present). The sample from MW-22 did not contain any other analyte concentrations that exceeded the cleanup levels, method reporting limits (MRLs), or the method detection limits (MDLs); however, the MDL for 1,2-dibromethane [EDB; 2.5 micrograms per liter (µg/L)] exceeded the Method A cleanup level (0.01 µg/L). The samples from MW-07, MW-09, and MW-13 did not contain any analyte concentrations that exceeded the cleanup levels, MRLs, or MDLs; however, the MDL for EDB (0.02 µg/L) exceeded the cleanup level in the sample collected from MW-07. The samples from MW-06, MW-12, MW-17, MW-18, MW-19, MW-20, and MW-21, did not contain any detected analyte concentrations. The groundwater sample analytical results from the January 2020 sampling event are presented in Table 1, and the GRO, benzene, and DRO concentrations are presented on Figure 2. The groundwater sample analytical results from the January 2020 sampling event, as well as from the previous groundwater sampling events, are presented in data tables and on trend plots in Appendix B. The laboratory reports from the January 2020 sampling event are 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 with the following data qualifications.

- The benzene concentration in the sample from MW-13 was noted with a J qualifier. Apex defined the J qualifier as an estimated result; the result was detected below the lowest point of the calibration curve, but above the specified MDL.
- The DRO concentration in the sample from MW-22 was noted with a F-18 qualifier, which indicates that the diesel result is due to overlap from gasoline or a GRO product.
- The analytical results for the field blank and trip blank samples did not contain any analyte concentrations above the MRL or MDLs, and no data qualifiers were applied to the results.
- The analytical results of the duplicate sample (labelled MW-30-0120) collected from MW-7 were within an acceptable range. The DRO concentration in sample MW-30-0120 was noted with a F-18 qualifier, which indicates that the diesel result is due to overlap from gasoline or a GRO product. The n-hexane concentration in sample MW-30-0120 was noted with a Q-42 qualifier, indicating that a matrix spike and/or duplicate analysis was performed on this sample and the percent recovery was outside of the laboratory control limits.

4. CONCLUSIONS

On January 29 and 30 2020, SLR conducted a semiannual performance groundwater monitoring event at the SeaTac Development Site. After reactivating the IAS/SVE system in September 2019, the objective of the groundwater sampling event was to evaluate the performance of the system operations.

The groundwater sample analytical results showed that the IAS/SVE system operations has reduced the petroleum hydrocarbon concentrations beneath the subject property to below the MTCA Method A cleanup levels. GRO is present in the groundwater to the northwest of the subject property (at MW-22) at a concentration (4.32 mg/L) that exceeds the MTCA Method A cleanup level. MW-22 is located hydraulically cross-gradient of the subject property, and based on a low DO concentration (1.78 mg/L) during the purging of MW-22, the well is located outside of the area of IAS/SVE influence. Tables and trend graphs that show GRO and benzene concentrations over time are presented in Appendix B.

The groundwater samples from the wells (MW-07, MW-12, MW-18, and MW-22) that have contained DRO and ORO concentrations were also analyzed for DRO and ORO (after silica gel cleanup). DRO was not detected above the MTCA Method A groundwater cleanup level or the MRLs in any of the samples, and ORO was not detected above the MRLs. Tables and trend graphs that show DRO concentrations over time are presented in Appendix B.

5. REFERENCES

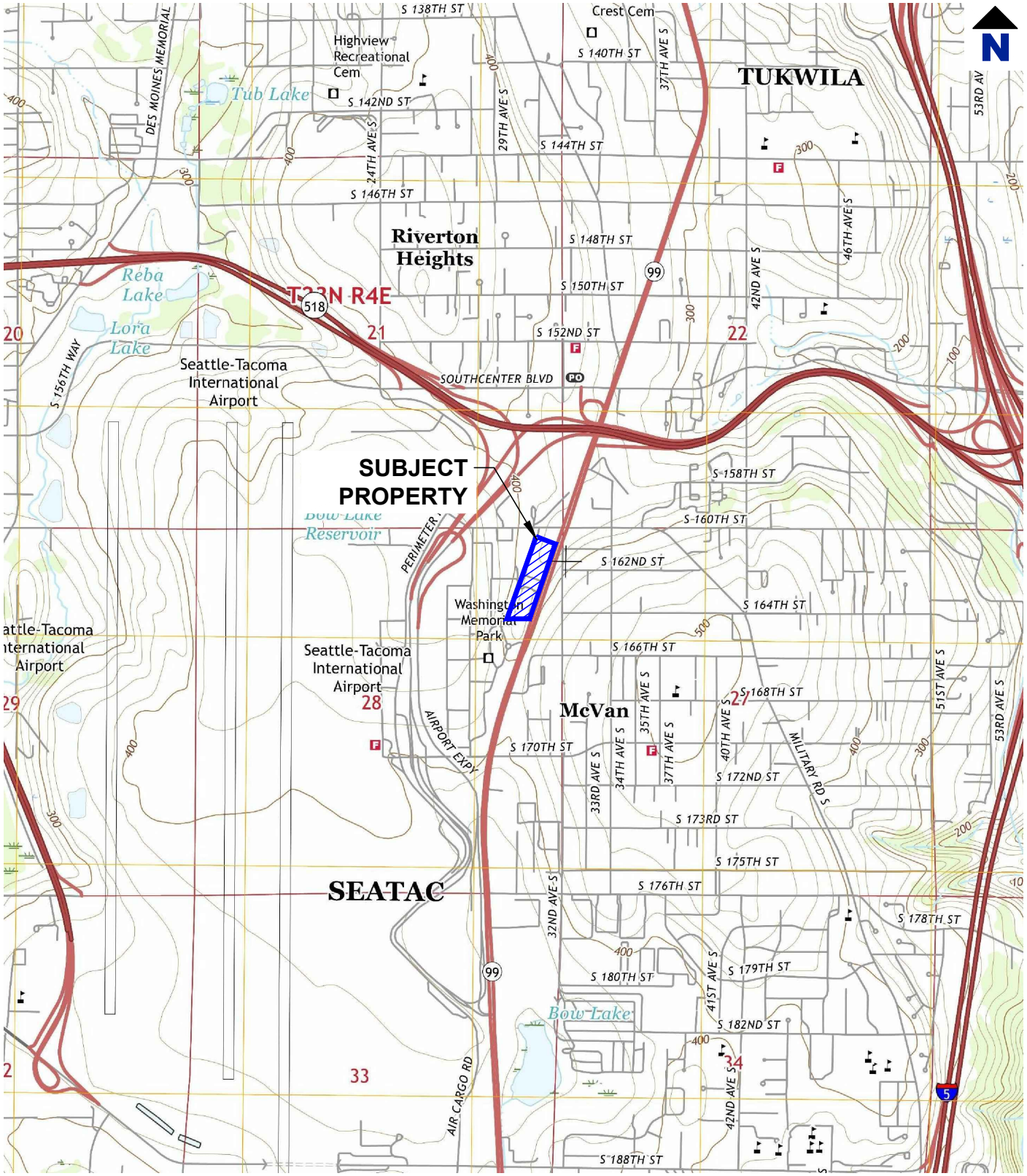
Golder Associates, Inc. 2011. *Attachment E, Compliance Monitoring Plan, Sea-Tac Development Site, SeaTac, Washington.* November 2.

LIMITATIONS

The services described in this work product were performed in accordance with generally accepted professional consulting principles and practices. No other representations or warranties, expressed or implied, are made. These services were performed consistent with our agreement with our client. This work product is intended solely for the use and information of our client unless otherwise noted. Any reliance on this work product by a third party is at such party's sole risk.

Opinions and recommendations contained in this work product are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this work product.

FIGURES



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	Fig. No. 1
File Name Figure 1.dwg	Project No. 101.01839.00002	

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N

PORT OF SEATTLE PROPERTY

PORT-MW-B

PORT-MW-B	
GRO	<0.10
B	<0.20
DRO	NA

MW-22

MW-22	
GRO	**4.32**
B	3.10
DRO	0.27

SOUTH 160TH STREET

MW-15

MW-23

PARKING LOT

PORT OF SEATTLE PROPERTY

MW-16

DRIVEWAY

IAS/SVE SYSTEM ENCLOSURE

LOUDEN PROPERTY

MW-12

MW-12	
GRO	<0.10
B	<0.20
DRO	<0.078

MW-07	
GRO	0.75
B	0.39
DRO	<0.081

MW-07

MW-11

MW-18

MW-18	
GRO	<0.10
B	<0.20
DRO	<0.080

MW-19

MW-19	
GRO	<0.10
B	<0.20
DRO	NA

MW-17A

MW-17A	
GRO	<0.10
B	<0.20
DRO	NA

MW-13

MW-13	
GRO	<0.10
B	0.15 J
DRO	NA

MW-01

MW-10

MW-14

MW-20

MW-20	
GRO	<0.10
B	<0.20
DRO	NA

MASTERPARK LOT C PROPERTY (SUBJECT PROPERTY)

MW-08A

INTERNATIONAL BLVD

PARKING LOT

MW-09

MW-09	
GRO	<0.10
B	0.54
DRO	NA

MW-05

MW-21

MW-21	
GRO	<0.10
B	<0.20
DRO	NA

MW-06

MW-06	
GRO	<0.10
B	<0.20
DRO	NA

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. J = LABORATORY NOTED THAT THE VALUE IS AN ESTIMATE.
6. DRO ANALYZED AFTER SILICA GEL CLEANUP.

LEGEND

MW-14 — SITE MONITORING WELL LOCATION AND DESIGNATION - GROUNDWATER ELEVATIONS MEASURED

MW-09 — SITE MONITORING WELL LOCATION AND DESIGNATION - PERFORMANCE MONITORING WELL

—— – —— SUBJECT PROPERTY LINE

——x—— FENCE

MW-18	
GRO	**4.32**
B	3.10
DRO	0.27

GASOLINE-RANGE ORGANICS — SAMPLE LOCATION
BENZENE — ANALYTICAL RESULT IN mg/L
DIESEL-RANGE ORGANICS — ANALYTICAL RESULT IN µg/L
ANALYTICAL RESULT IN mg/L

0 100 200 300
SCALE IN FEET

SLR

SEATAC DEVELOPMENT SITE
SEATAC, WASHINGTON

Drawing
GRO, BENZENE, AND DRO CONCENTRATIONS IN GROUNDWATER SAMPLES - JANUARY 2020

Date	February 21, 2020	Scale	AS SHOWN	Fig. No.
File Name	02-02	Project No.	101.02207.00001	2

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TABLES

Table 1
Groundwater Field Parameters and Sample Analytical Data - January 2020
SeaTac Development Site
SeaTac, Washington

Well ID	Date Sampled	Field Parameters							Analytical Data											
		Depth to Groundwater (feet)	pH	Temperature (°C)	Specific Conductance (µmhos/cm)	Dissolved Oxygen (mg/L)	Oxidation-Reduction Potential (mV)	Turbidity (NTU)	GRO[a] (mg/L)	Benzene[b] (µg/L)	Toluene[b] (µg/L)	Ethylbenzene[b] (µg/L)	Total Xylenes[b] (µg/L)	EDB[c] (µg/L)	N-hexane[b] (µg/L)	Naphthalene[b] (µg/L)	DRO[d] (mg/L)	ORO[d] (mg/L)	DRO[d] after Silica Gel Cleanup (mg/L)	ORO[d] after Silica Gel Cleanup (mg/L)
MTCA Method A Groundwater Cleanup Levels[e]									**0.8[f]/1.0[g]**	**5.0**	**1,000**	**700**	**1,000**	**0.01**	**480[h]**	**160**	**0.5**	**0.5**	**0.5**	**0.5**
MW-06	1/30/2020	59.04	6.42	12.5	228	12.56	77.0	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-07	1/29/2020	48.12	6.72	14.6	201	0.86	69.4	NM	0.75	0.39	8.1	2.3	11.0	<0.02 [i]	6.97	5.08	NA	NA	<0.081	<0.16
MW-07 (duplicate[k])	1/29/2020	--	--	--	--	--	--	--	0.77	0.36	7.9	2.3	10.6	<0.02 [i]	7.05	4.82	NA	NA	0.12 [j]	<0.17
MW-09	1/30/2020	51.45	6.40	12.7	249	0.77	77.2	NM	<0.10	0.54	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-12	1/29/2020	63.90	7.18	12.6	10	13.47	41.2	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	<0.078	<0.16
MW-13	1/30/2020	54.92	7.10	12.9	215	3.28	76.5	NM	<0.10	0.15 J	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-17A	1/30/2020	84.14	6.38	12.1	161	5.74	81.5	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-18	1/30/2020	50.03	7.51	13.5	27	7.14	39.6	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	<0.080	<0.16
MW-19	1/30/2020	45.95	6.86	13.1	278	1.95	75.0	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-20	1/30/2020	106.60	6.57	13.0	81	8.89	64.0	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-21	1/30/2020	102.69	6.37	12.2	180	9.37	83.1	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA
MW-22	1/29/2020	82.58	6.72	12.8	192	1.78	82.1	NM	**4.32**	3.1	<5.0	247	335	<2.50 [i]	<10.0	130	NA	NA	0.27 [j]	<0.20
PORT-MW-B	1/29/2020	105.60	6.66	12.0	166	8.70	73.7	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	NA	NA

Notes:
Values in bold and **red** exceed MTCA Method A or B Cleanup Levels.
NM = Not Measured
mg/L = Milligrams per liter
µg/L = Micrograms per liter
µmhos/cm = Micromhos per centimeter
NTU = Nephelometric turbidity unit
°C = Degrees Celsius
J = Laboratory estimated value
GRO = Gasoline-range organics
DRO = Diesel-range organics
ORO = Oil-range organics
EDB = 1,2-dibromoethane
NA = Not analyzed
NS = Not sampled
mV = Millivolts

[a] Analyzed by Ecology Method NWTPH-Gx.
[b] Analyzed by EPA Method 8260C.
[c] Analyzed by EPA Method 8260C 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 (May 2019).
[i] The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.
[j] The laboratory noted that the result for diesel-range organics is due to overlap from gasoline or a gasoline-range product.
[k] Duplicate sample named MW-30-0120.

Table 2
Groundwater Monitoring Data - January 2020
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	1/29/2020	Dry	--
MW-05	364.26	48 to 58	1/29/2020	53.84	310.42
MW-06	369.68	50 to 60	1/29/2020	59.04	310.64
MW-07	358.69	43.5 to 53.5	1/29/2020	48.12	310.57
MW-08A	359.16	44 to 54	1/29/2020	48.61	310.55
MW-09	362.13	47.5 to 57	1/29/2020	51.45	310.68
MW-10	360.18	80 to 90	1/29/2020	50.20	309.98
MW-11	357.53	42 to 57	1/29/2020	46.78	310.75
MW-12	364.83	52 to 67	1/29/2020	63.90	300.93
MW-13	365.42	50 to 65	1/29/2020	54.92	310.50
MW-14	363.76	50 to 65	1/29/2020	53.28	310.48
MW-15	364.67	50 to 65	1/29/2020	54.08	310.59
MW-16	377.63	64 to 74	1/29/2020	67.22	310.41
MW-17A	394.44	80 to 95	1/29/2020	84.14	310.30
MW-18	360.45	47 to 62	1/29/2020	50.03	310.42
MW-19	356.61	43 to 58	1/29/2020	45.95	310.66
MW-20	416.61	103 to 113	1/29/2020	106.60	310.01
MW-21	412.85	95 to 110	1/29/2020	102.69	310.16
MW-22	393.31	80 to 95	1/29/2020	82.58	310.73
MW-23	354.94	42.5 to 57.5	1/29/2020	44.26	310.68
PORT-MW-B	399.83	79 to 99	1/29/2020	105.60	294.23

Notes:

NM = Not measured.

* Due to a malfunctioning sensitivity dial on the water level meter at the time of the measurements, the groundwater level data collected on January 29, 2020, is unreliable.

[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

SLR

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-06
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-06-0120
Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 0906 End (2400hr): 0930
Date Sampled: 1/30/20 Sample Time (2400hr): 0930

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

Total depth (feet) = Casing Volume (gal) =
Depth to water (feet) = ~ 59.04' 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	0906	11.89	0.236	0.153	14.51	6.94	103.1	clear	clear
0.2	0910	12.46	0.222	0.145	13.06	6.92	72.5	clear	clear
0.4	0914	12.42	0.223	0.145	12.71	6.71	72.5	clear	clear
0.6	0918	12.41	0.225	0.146	12.62	6.57	74.5	clear	clear
0.8	0922	12.39	0.226	0.147	12.61	6.50	75.6	clear	clear
1.0	0926	12.36	0.227	0.148	12.55	6.46	76.4	clear	clear
1.2	0930	12.45	0.228	0.148	12.56	6.42	77.0	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Intake Depth: _____ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - missing bolts Odor: NO
Remarks: N/A

Signature: [signature] [signature]

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.02207.00001 | Purged By: SML | Well I.D.: MW-07
Project Name: SeaTac Development Site | Sampled By: SML | Sample I.D.: MW-07-0120
Location: SeaTac | QA Samples: MW-30-0120 @ 1435

Date Purged: 1/29/20 | Start (2400hr): 1411 | End (2400hr): 1435
Date Sampled: 1/29/20 | Sample Time (2400hr): 1435

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

Total depth (feet) = ___ | Tubing Volume (gal) = ___
Depth to water (feet) = 46.12 | 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	1411	14.39	0.221	0.144	11.21	6.21	106.0	clear	clear
0.2	1415	14.52	0.202	0.131	1.10	6.84	67.0	clear	clear
0.4	1419	14.57	0.199	0.130	0.90	6.83	66.9	clear	clear
0.6	1423	14.56	0.200	0.130	0.91	6.79	68.3	clear	clear
0.8	1427	14.60	0.200	0.130	0.92	6.73	69.4	clear	clear
1.0	1431	14.66	0.200	0.130	0.87	6.72	69.8	clear	clear
1.2	1435	14.59	0.201	0.130	0.86	6.72	69.4	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated ~~tubing~~ bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: ___ | Odor: No
Remarks: N/A

Signature: [signature]

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 161.02207.00001 Purged By: SML Well I.D.: MW-09
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-09-0120
Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 1155 End (2400hr): 1216
Date Sampled: 1/30/20 Sample Time (2400hr): 1216

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

Total depth (feet) = ___ Casing Volume (gal) = ___
Depth to water (feet) = 51.45 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	1155	11.89	0.272	0.177	9.41	6.60	95.6	clear	clear
0.2	1159	12.72	0.282	0.184	6.57	6.67	73.7	clear	clear
0.4	1203	12.66	0.292	0.190	1.59	6.61	71.5	clear	clear
0.6	1207	12.67	0.296	0.192	0.99	6.54	74.2	clear	clear
0.8	1211	12.67	0.298	0.194	0.84	6.39	77.9	clear	clear
1.0	1215	12.74	0.299	0.194	0.80	6.39	77.9	clear	clear
1.2	1214	12.69	0.299	0.194	0.79	6.40	77.4	clear	clear
1.4	1216	12.65	0.299	0.194	0.77	6.40	77.2	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing + bladder Pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000 mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - Stripped bolts Odor: No
Remarks: N/A

Signature:

Page 1 of _1_

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-12
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-12-01/20
Location: SeaTac, WA QA Samples: 0

Date Purged: 1/24/20 Start (2400hr): 1319 End (2400hr): 1339
Date Sampled: 1/24/20 Sample Time (2400hr): 1339

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

Total depth (feet) = Tubing Volume (gal) =
Depth to water (feet) = 63.90 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	1319	12.13	0.017	0.017	14.63	7.68	52.3	clear	clear
0.2	1323	12.60	0.006	0.004	12.81	7.75	25.3	clear	clear
0.4	1327	12.62	0.006	0.004	14.13	7.63	26.5	clear	clear
0.6	1331	12.66	0.007	0.005	13.93	7.41	31.9	clear	clear
0.8	1335	12.55	0.008	0.005	13.48	7.21	34.4	clear	clear
1.0	1339	12.59	0.010	0.006	13.47	7.18	41.2	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Intake Depth: _____ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing bladder Pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1 liter mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Poor - missing bolts and sediment in well monument Odor: NO
Remarks: N/A

Signature:

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-13
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-13-0120
Location: SeaTac WA QA Samples: ~~0~~

Date Purged: 1/30/20 Start (2400hr): 1101 End (2400hr): 1129
Date Sampled: 1/30/20 Sample Time (2400hr): 1129

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

Total depth (feet) = Casing Volume (gal) =
Depth to water (feet) = 54.92 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	1101	11.26	0.198	0.130	11.17	7.24	91.8	clear	clear
0.2	1105	12.71	0.200	0.130	5.35	6.82	97.4	clear	clear
0.4	1109	12.69	0.201	0.131	4.67	7.13	98.7	clear	clear
0.6	1113	12.75	0.203	0.132	4.44	7.12	77.9	clear	clear
0.8	1117	12.76	0.207	0.135	3.93	7.11	77.2	clear	clear
1.0	1121	12.80	0.212	0.138	3.52	7.09	77.2	clear	clear
1.2	1125	12.86	0.214	0.139	3.36	7.10	76.6	clear	clear
1.4	1129	12.91	0.215	0.140	3.28	7.16	76.5	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: _____
Pump Intake Depth: _____ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing + bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000 mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - stripped well monument bolts Odor: No
Remarks: N/A

Signature:

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101.02207.00001 Purged By: — Well I.D.: MW-16

Project Name: SeaTac Development Site Sampled By: — Sample I.D.: —

Location: SeaTac, WA QA Samples: 0

Date Purged: — Start (2400hr): — End (2400hr): —

Date Sampled: — Sample Time (2400hr): —

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

Total depth (feet) = ___ Casing Volume (gal) = ___

Depth to water (feet) = 67.22 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)
—	1610	12.51	—	—	4.26	—	—	—	—

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump ___ Bailer (disposable)

___ Active Extraction Well Pump ___ Bailer (PVC)

___ Submersible Pump ___ Bailer (Stainless Steel)

___ Peristaltic Pump ___ Dedicated ___

Other: ___

Pump Intake Depth: ___ (feet)

SAMPLE VESSELS

___ 40mL VOA ___ ___mL HDPE w/ H2SO4

___ 40mL VOA w/ HCL ___

___ ___mL amber glass ___

___ ___mL amber glass w/ HCl ___

___ ___mL HDPE ___

___ ___mL HDPE w/ HNO3 ___

Well Integrity: Good - Bolts partially stripped Odor: —

Remarks: Measured DO and Temp w/ down-well DO meter. Set approx 3' below water level

Signature:

Page 1 of _1_

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-17A

Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-17A-0120

Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 1256 End (2400hr): 1324

Date Sampled: 1/30/20 Sample Time (2400hr): 1324

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

Total depth (feet) = ___ Casing Volume (gal) = ___

Depth to water (feet) = 84.14' 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	1256	10.73	0.172	0.112	11.53	6.94	91.9	clear	clear
0.2	1300	10.99	0.173	0.113	10.54	6.91	92.7	clear	clear
0.4	1304	12.22	0.168	0.109	9.19	6.93	80.1	clear	clear
0.6	1308	12.13	0.164	0.107	7.41	6.86	71.6	clear	clear
0.8	1312	12.08	0.162	0.105	6.29	6.66	74.4	clear	clear
1.0	1316	12.04	0.162	0.105	5.90	6.52	78.1	clear	clear
1.2	1320	11.95	0.162	0.105	5.80	6.44	79.8	clear	clear
1.4	1324	12.10	0.161	0.105	5.74	6.38	81.5	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump

___ Active Extraction Well Pump

___ Submersible Pump

___ Peristaltic Pump

Other: ___

Pump Intake Depth: ___ (feet)

___ Bailer (disposable)

___ Bailer (PVC)

___ Bailer (Stainless Steel)

X Dedicated tubing + bladder pump

SAMPLE VESSELS

___ 40mL VOA

5 40mL VOA w/ HCL

___ ___mL amber glass

2 1000mL amber glass w/ HCl

___ ___mL HDPE

___ ___mL HDPE w/ HNO3

___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - missing two bolts/stripped Odor: No

Remarks: N/A

Signature:

Page 1 of _1_

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-18
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-18-0120
Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 1003 End (2400hr): 1031
Date Sampled: 1/30/20 Sample Time (2400hr): 1031

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

Total depth (feet) = ___ Casing Volume (gal) = ___
Depth to water (feet) = 50.03 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	1003	12.17	0.424	0.277	9.85	7.50	110.0	clear	clear
0.2	1007	12.44	0.417	0.270	10.00	8.43	70.0	clear	clear
0.4	1011	13.44	0.150	0.091	8.22	8.54	38.4	clear	clear
0.6	1015	13.46	0.035	0.023	7.42	8.19	28.4	clear	clear
0.8	1019	13.48	0.028	0.018	7.22	7.84	33.3	clear	clear
1.0	1023	13.61	0.027	0.018	7.20	7.65	37.3	clear	clear
1.2	1027	13.53	0.027	0.018	7.12	7.56	39.3	clear	clear
1.4	1031	13.51	0.027	0.017	7.14	7.51	39.6	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - missing bolts Odor: No
Remarks: N/A

Signature:

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-19 ~~in~~

Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-19-0120

Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 0826 End (2400hr): 0846

Date Sampled: 1/30/20 Sample Time (2400hr): 0846

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

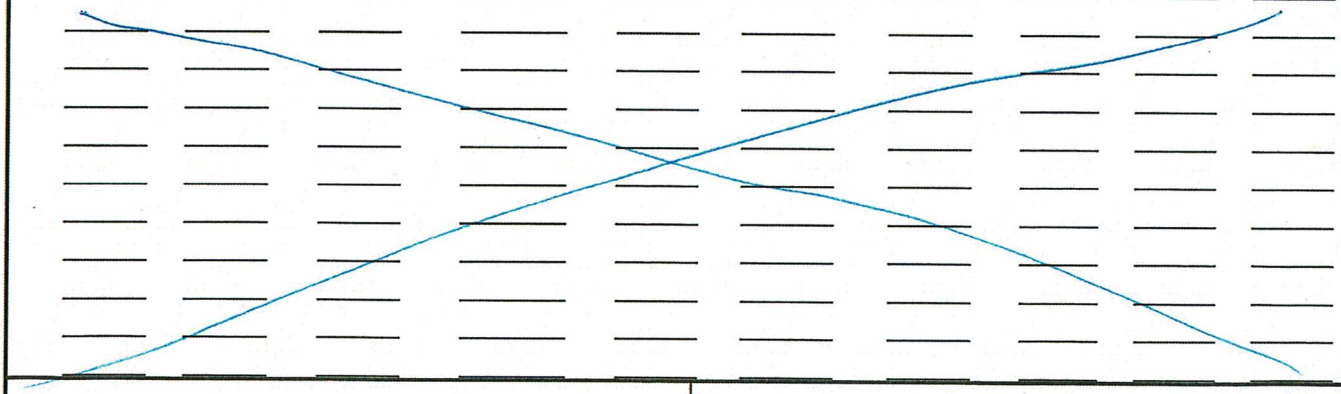
Total depth (feet) = ___ Tubing Volume (gal) = ___

Depth to water (feet) = 45.95 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	0826	12.51	0.281	0.182	17.32	7.05	116.0	clear	clear
0.2	0830	13.00	0.278	0.180	4.62	7.05	83.4	clear	clear
0.4	0834	13.06	0.276	0.180	2.56	6.98	75.9	clear	clear
0.6	0838	13.13	0.276	0.180	2.08	6.92	75.2	clear	clear
0.8	0842	13.14	0.278	0.181	1.98	6.89	74.7	clear	clear
1.0	0846	13.13	0278	0.181	1.95	6.86	75.0	clear	clear



PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing + bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Fair - missing bolts on monument Odor: No

Remarks: N/A

Signature:

Page 1 of _1_

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 161.02207.00001 Purged By: SML Well I.D.: MW-20

Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-20-0120

Location: SeaTac, WA QA Samples: ~~0~~

Date Purged: 1/30/20 Start (2400hr): 1402 End (2400hr): 1434

Date Sampled: 1/30/20 Sample Time (2400hr): 1434

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

Total depth (feet) = Casing Volume (gal) =

Depth to water (feet) = 106.60 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	1402	12.07	0.187	0.121	9.52	6.51	95.7	clear	clear
0.2	1406	12.37	0.185	0.120	12.45	6.93	70.8	clear	clear
0.4	1410	12.35	0.130	0.0841	10.34	6.87	61.2	clear	clear
0.6	1414	11.96	0.102	0.066	10.48	6.83	60.5	clear	clear
0.8	1418	13.07	0.074	0.051	9.92	6.64	62.7	clear	clear
1.0	1422	12.90	0.075	0.049	9.42	6.71	58.1	clear	clear
1.2	1426	12.86	0077	0.050	8.94	6.66	60.7	clear	clear
1.4	1430	12.92	0.0760	0.052	8.96	6.59	62.1	clear	clear
1.6	1434	12.96	0.081	0.055	8.89	6.57	64.0	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump

___ Active Extraction Well Pump

___ Submersible Pump

___ Peristaltic Pump

Other: _____

Pump Intake Depth: _____ (feet)

___ Bailer (disposable)

___ Bailer (PVC)

___ Bailer (Stainless Steel)

X Dedicated Tubing

SAMPLE VESSELS

___ 40mL VOA

5 40mL VOA w/ HCL

___ ___mL amber glass

2 1000mL amber glass w/ HCl

___ ___mL HDPE

___ ___mL HDPE w/ HNO3

___ ___mL HDPE w/ H2SO4

Well Integrity: _____ Odor: No

Remarks: N/A

Signature: [signature]

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101.02207.00001 Purged By: SML Well I.D.: MW-21
Project Name: SeaTac Development Site Sampled By: SML Sample I.D.: MW-21-0120
Location: SeaTac, WA QA Samples: 0

Date Purged: 1/30/20 Start (2400hr): 1510 End (2400hr): 1538
Date Sampled: 1/30/20 Sample Time (2400hr): 1538

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

Total depth (feet) = ___ Casing Volume (gal) = ___
Depth to water (feet) = 102.69 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	1510	12.46	0.185	0.124	9.77	6.33	103.1	clear	clear
0.2	1514	12.44	0.179	0.116	9.25	6.73	73.1	clear	clear
0.4	1518	12.43	0.176	0.114	9.23	6.61	74.3	clear	clear
0.6	1522	12.29	0.180	0.117	9.30	6.43	80.6	clear	clear
0.8	1526	12.27	0.183	0.118	9.36	6.40	81.6	clear	clear
1.0	1530	12.24	0.181	0.118	9.36	6.38	82.7	clear	clear
1.2	1534	12.21	0.180	0.117	9.38	6.38	83.2	clear	clear
1.4	1536	12.23	0.180	0.117	9.37	6.37	83.1	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing + bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Good - missing cap on bolt Odor: No
Remarks: N/A

Signature:

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.07207.0000 | Purged By: SML | Well I.D.: MW-22
Project Name: SeaTac Development Site | Sampled By: SML | Sample I.D.: MW-22-0120
Location: SeaTac, WA | QA Samples: ~~X~~

Date Purged: 1/29/20 | Start (2400hr): 1048 | End (2400hr): 1112
Date Sampled: 1/29/20 | Sample Time (2400hr): 1112

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

Total depth (feet) = ___ | Tubing Volume (gal) = ___
Depth to water (feet) = 82.56 | 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	1048	12.93	0.218	0.142	3.12	7.01	91.1	clear	clear
0.2	1052	12.93	0.205	0.133	3.56	6.59	99.0	clear	clear
0.4	1056	12.469	0.196	0.127	2.39	6.72	90.6	clear	clear
0.6	1100	12.466	0.191	0.124	2.00	6.72	87.4	clear	clear
0.8	1104	12.482	0.190	0.123	1.87	6.72	85.6	clear	clear
1.0	1108	12.75	0.191	0.124	1.81	6.74	83.6	clear	clear
1.2	1112	12.79	0.192	0.125	1.78	6.72	82.1	clear	clear

PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing and bladder Pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000 mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Good | Odor: ND
Remarks: N/A

Signature: [signature]

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

SLR

Project No. 101022207.00001 | Purged By: SML | Well I.D.: PORT-MW-B

Project Name: SeaTac Development Site | Sampled By: SML | Sample I.D.: PORT-MW-B-0120

Location: SeaTac, WA | QA Samples: 0

Date Purged: 1/24/20 | Start (2400hr): 1203 | End (2400hr): 1227

Date Sampled: 1/24/20 | Sample Time (2400hr): 1227

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

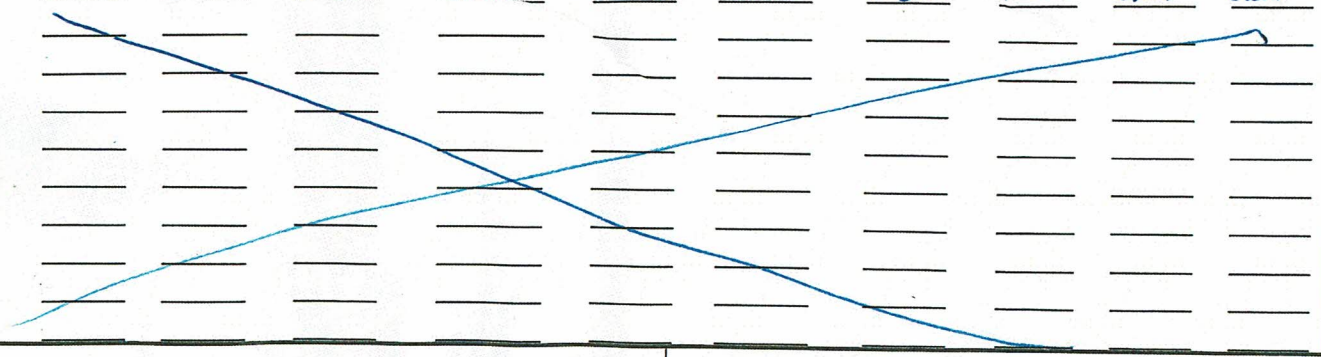
Total depth (feet) = [illegible] | Tubing Volume (gal) = ___

Depth to water (feet) = 105.60 | 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	1203	12.06	0.163	0.106	11.30	6.80	80.0	clear	clear
0.2	1207	12.20	0.165	0.107	9.84	6.95	65.9	clear	clear
0.4	1211	12.14	0.165	0.107	9.42	6.93	65.7	clear	clear
0.6	1215	12.05	0.166	0.108	9.14	6.83	68.7	clear	clear
0.8	1219	12.00	0.166	0.108	8.77	6.80	71.5	clear	clear
1.0	1223	11.99	0.166	0.108	8.75	6.69	73.3	clear	clear
1.2	1227	12.03	0.166	0.108	8.70	6.66	73.7	clear	clear



PURGING & SAMPLING EQUIPMENT

___ Well Wizard Bladder Pump
___ Active Extraction Well Pump
___ Submersible Pump
___ Peristaltic Pump
Other: ___
Pump Intake Depth: ___ (feet)

___ Bailer (disposable)
___ Bailer (PVC)
___ Bailer (Stainless Steel)
X Dedicated tubing bladder pump

SAMPLE VESSELS

___ 40mL VOA
5 40mL VOA w/ HCL
___ ___mL amber glass
2 1000 mL amber glass w/ HCl
___ ___mL HDPE
___ ___mL HDPE w/ HNO3
___ ___mL HDPE w/ H2SO4

Well Integrity: Good | Odor: No

Remarks: N/A

Signature: [signature]

Page 1 of _1_

APPENDIX B

DATA TABLES AND TREND GRAPHS

Table B-1
Summary of Groundwater Sampling Results - Well MW-06
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**
02/11/14	369.68	59.03	310.65	6.13	12.1	139	0.91	16.4	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/28/14	369.68	NM	NM	6.14	14.3	454	1.03	3.71	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20 UJ	< 0.50	< 0.10	< 0.20	NA	NA
09/10/14	369.68	NM	NM	6.27	15.9	312	1.52	11.8	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/14	369.68	NM	NM	6.27	13.6	314	2.14	6.75	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/17/15	369.68	NM	NM	6.32	14.9	331	3.96	0.75	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/15	369.68	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/03/16	369.68	61.41	308.27	6.36	13.9	396	10.59	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	0.19 J	<0.50	<0.10	<0.20	NA	NA
11/15/16	369.68	59.51	310.17	6.34	13.7	352	7.42	418	0.11	<0.20	<0.20	<0.20	<0.40	<0.20[e]	0.1 J	<0.50	0.17	<0.20	NA	NA
05/02/17	369.68	59.31	310.37	6.16	14.0	238	7.17	1.21	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
11/14/17	369.68	58.35	311.33	6.39	12.7	325	9.01	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
01/16/18	369.68	57.78	311.90	6.13	13.1	244	8.81	0.6	<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	369.68	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	369.68	57.22	312.46	5.94	13.8	200	8.76	0.15	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
11/07/18	369.68	57.41	312.27	6.35	13.6	188.0	8.74	0.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
07/29/19	369.68	57.97	311.71	6.28	15.9	244.0	8.13	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.003	<0.20	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	369.68	59.04	310.64	6.42	12.5	228	12.56	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	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 (May 2019).
[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-07
SeaTac Development Site
SeaTac, Washington

Date Sampled	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Field Parameters					Analytical Data											
				pH	Temperature (°C)	Conductivity (µmhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	GRO (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**
03/18/10	358.70	48.69	310.01	6.61	13.3	354	1.41	5.18	**26**	**230**	**1,100**	360	**4,630**	**0.010**	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**	< 1.5[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	2.04 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	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	1.13	<0.003	0.29	1.63	0.17	<0.20	<0.10	<0.20
01/29/20	358.69	48.12	310.57	6.72	14.59	201.00	0.86	NM	0.75	0.39	8.07	2.34	11.0	<0.02[e]	6.97	5.08	NA	NA	<0.081	<0.16

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 (May 2019).
[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-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**
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	< 0.08[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]	5.60	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	47.2	< 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	1.45 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	0.05 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	<0.20[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	<0.01	<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	<0.01	<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	<0.003	<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	<0.01	<1.0	<1.0	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 (May 2019).
[e] The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Table B-4
Summary of Groundwater Sampling Results - Well MW-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**
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	< 0.07[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	< 0.01	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	< 0.07[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	< 0.07[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	< 0.07[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**	<0.215	NA	NA
11/15/17	364.83	53.37	311.46	7.69	14.9	301	0.99	18.9	**2.2**	1.8	18	11	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	**2.2**	1.7	12	26	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	3.0	**2.8**	**17**	2.1	24	43	<0.01	26	19	**2.9**	<0.20	NA	NA
11/08/18	364.83	52.55	312.28	7.98	14.7	354	0.36	6.6	**3.6**	**26**	2.5	24	25	<0.01	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	**2.3**	**8.2**	2.9	16	25	<0.003	8.43	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	<0.01	<1.0	<1.0	NA	NA	<0.078	<0.16

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 (May 2019).
[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-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**
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**	< 0.08[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	< 0.07[e]	0.11 J	< 0.50	0.32	< 0.20	NA	NA
09/10/14	365.42	54.86	310.56	7.06	14.9	137	11.06	2.41	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.01	< 0.20	< 0.50	0.29	< 0.20	NA	NA
12/04/14	365.42	54.86	310.56	7.06	13.9	163	10.10	2.32	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	0.31	< 0.20	NA	NA
06/18/15	365.42	54.70	310.72	7.13	14.7	174	10.71	1.32	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	0.61	0.27	< 0.20	NA	NA
12/02/15	365.42	56.43	308.99	7.27	14.2	164	10.20	0.90	< 0.25	< 0.20	< 0.20	0.23	1.10 J	< 0.07[e]	< 0.20	< 0.50	0.26	< 0.20	NA	NA
05/03/16	365.42	56.30	309.12	7.79	15.8	194	14.18	1.14	<0.10	<0.20	<0.20	<0.20	0.44	<0.20[e]	<0.20	<0.50	0.12 J	<0.20	NA	NA
11/15/16	365.42	55.81	309.61	7.25	14.1	195	10.64	0.73	<0.10	<0.20	<0.20	<0.20	0.46	<0.20[e]	<0.20	<0.50	0.19	<0.20	NA	NA
05/03/17	365.42	55.14	310.28	7.03	14.5	116	10.71	1.45	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	0.18	<0.20	NA	NA
11/14/17	365.42	54.05	311.37	6.75	13.6	136	1.72	NM	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	0.13	<0.20	NA	NA
01/16/18	365.42	53.62	311.80	6.93	13.4	159	0.85	2.02	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
03/09/18	365.42	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
05/15/18	365.42	52.96	312.46	6.43	14.1	120	1.87	1.14	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<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	<0.01	<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	0.07 J	<0.20	<0.20	<0.60	<0.003	<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	<0.01	<1.0	<1.0	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 (May 2019).
[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-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**
03/17/10	385.81	76.29	309.52	6.51	9.3	145	0.52	142	**1.70**	< 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	< 0.08[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	< 0.07[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	< 0.07[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	< 0.07[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	< 0.07[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	0.05 J	0.75	< 0.20	0.08 J	< 0.40	< 0.07[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	<0.01	<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	<0.01	<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	<0.003	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	<0.01	<1.0	<1.0	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 (May 2019).
[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-7
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**
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	< 0.08[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	< 0.07[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	< 0.07[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	< 0.07[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	< 0.07[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	1.9	**1.9**	NS	NS	NS	NS	NS	NS	NS	**4.66**	<0.20	NA	NA
05/16/18	360.45	47.94	312.51	6.42	15.2	405	0.21	1.4	**1.5**	**6.2**	2.2	20	19	<0.01	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	2.5	**1.5**	**6.6**	1.1	24	2.8	<0.01	<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**	0.3	1.2	2.4	<0.003	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	7.14	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	NA	NA	<0.080	<0.16

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 (May 2019).
[e] 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-19
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**
03/18/10	356.61	46.60	310.01	7.04	12.5	275	0.07	84.0	**1.3**	**8.9**	1.8	43	6.0	< 0.0096	2.8	< 5.0	NS	NS	NS	NS
02/11/14	356.61	45.46	311.15	6.98	12.7	105	0.15	3.20	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08[e]	4.3	< 0.50	< 0.10	< 0.20	NA	NA
05/29/14	356.61	45.74	310.87	6.96	13.7	290	0.04	0.42	< 0.10	< 0.25	0.40	< 0.25	0.58	< 0.07[e]	0.30	< 0.50	< 0.10	< 0.20	NA	NA
09/10/14	356.61	45.73	310.88	6.93	14.5	379	0.16	0.30	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/14	356.61	45.73	310.88	6.82	13.3	380	0.20	0.86	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/17/15	356.61	45.94	310.67	6.75	14.3	400	0.26	0.86	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/02/15	356.61	47.72	308.89	6.87	13.6	530	0.09	2.60	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/03/16	356.61	46.81	309.80	6.79	15.2	390	0.87	1.23	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
11/15/16	356.61	46.15	310.46	6.88	14.1	586	0.37	0.81	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
05/02/17	356.61	45.90	310.71	6.46	13.9	268	2.04	0.36	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.106	<0.213	NA	NA
11/14/17	356.61	45.04	311.57	6.73	13.7	456	0.98	0.79	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
01/16/18	356.61	44.57	312.04	6.79	13.5	414	0.20	0.64	<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	356.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/15/18	356.61	43.92	312.69	6.47	14.6	305	0.34	0.49	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
11/08/18	356.61	44.15	312.46	7.00	13.6	314	0.33	0.72	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
07/26/19	356.61	44.63	311.98	6.46	15.1	333	0.51	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.003	<0.20	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	356.61	45.95	310.66	6.86	13.1	278	1.95	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	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 (May 2019).
[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-20
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**
03/17/10	430.98	121.79	309.19	6.63	10.8	359	4.82	4.37	< 0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 0.0095	< 1.0	< 5.0	NS	NS	NS	NS
03/20/14	416.61	106.13	310.48	6.74	11.4	377	7.82	3.32	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50 UJ	< 0.10	< 0.20	NA	NA
05/29/14	416.61	106.66	309.95	6.73	12.3	257	6.37	0.82	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
09/10/14	416.61	106.53	310.08	6.83	13.2	355	7.55	0.69	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/14	416.61	106.53	310.08	6.79	12.4	355	7.67	1.30	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/17/15	416.61	106.68	309.93	6.77	13.3	350	7.41	1.06	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/15	416.61	108.61	308.00	7.66	12.4	290	6.76	4.28	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/03/16	416.61	107.56	309.05	6.58	13.3	138	5.31	3.55	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
11/15/16	416.61	106.97	309.64	6.75	13.0	241	7.12	0.41	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
05/03/17	416.61	106.66	309.95	6.63	12.8	118	8.97	1.35	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
11/14/17	416.61	105.76	310.85	6.60	12.7	192	9.06	1.76	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
01/16/18	416.61	105.48	311.13	6.67	12.8	165	9.46	0.66	<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	416.61	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/15/18	416.61	104.65	311.96	6.31	13.0	119	9.63	0.48	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
11/08/18	416.61	104.98	311.63	6.89	13.2	144	7.83	1.07	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
07/26/19	416.61	105.29	311.32	6.77	18.3	222	9.68	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.003	<0.20	<0.50	<0.10	<0.20	<0.10	<0.20
01/30/20	416.61	106.60	310.01	6.57	13.0	81	8.89	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	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 (May 2019).
[e] 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 MW-21
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**
03/17/10	390.79	81.26	309.53	5.97	11.5	257	3.21	5.13	< 0.10	< 1.0	< 1.0	< 1.0	< 1.0	< 0.0096	< 1.0	< 5.0	NS	NS	NS	NS
02/11/14	412.85	102.34	310.51	6.09	11.9	110	6.31	11.2	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.08[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/29/14	412.85	102.61	310.24	6.15	12.5	277	6.28	1.71	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
09/10/14	412.85	102.66	310.19	6.15	13.5	283	6.25	1.95	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/14	412.85	102.66	310.19	6.20	12.3	304	5.54	13.1	< 0.10	< 0.25	< 0.25	< 0.25	< 0.50	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
06/17/15	412.85	102.81	310.04	6.12	13.5	326	6.12	1.98	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
12/03/15	412.85	104.70	308.15	5.17	12.6	341	6.21	1.39	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[e]	< 0.20	< 0.50	< 0.10	< 0.20	NA	NA
05/03/16	412.85	104.40	308.45	6.28	13.7	315	9.30	3.86	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
11/15/16	412.85	102.97	309.88	6.30	13.4	290	6.29	4.51	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
05/03/17	412.85	102.68	310.17	6.08	13.0	134	7.33	1.12	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.109	<0.22	NA	NA
11/14/17	412.85	101.84	311.01	6.21	12.9	165	8.39	1.76	<0.10	<0.20	<0.20	<0.20	<0.40	<0.20[e]	<0.20	<0.50	<0.10	<0.20	NA	NA
01/16/18	412.85	101.45	311.40	6.19	12.9	157	8.61	1.33	<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	412.85	NM	NM	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
05/15/18	412.85	100.66	312.19	6.00	13.1	116	8.91	0.59	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
11/08/18	412.85	100.93	311.92	6.47	13.0	127	8.75	0.64	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
07/26/19	412.85	101.39	311.46	6.34	16.4	216	9.91	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.003	<0.20	<0.50	<0.10	<0.20	NA	NA
01/30/20	412.85	102.69	310.16	6.37	12.2	180	9.37	NM	<0.10	<0.10	<0.50	<0.25	<0.75	<0.01	<1.0	<1.0	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 (May 2019).
[e] The analyte was not detected at or above the method detection limit (MDL); however, the MDL exceeded the cleanup level.

Table B-11
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**
03/16/10	393.31	83.63	309.68	6.65	12.5	586	0.25	82.0	**15**	**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**	**5.7**	12	**990**	**1,503**	< 0.07[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**	3.9	9.7	**940**	**1,900**	< 0.07[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**	4.8	9.3	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**	**8.7**	11	**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**	**5.9**	7.4	**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**	4.4	6.2	**840**	**1,503**	< 1.5[f]	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**	3.8	5.0	**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**	4.0	3.9	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	**13**	4.2	4.4	651	960	<0.20[f]	5.7	**389**	**2.8**	<0.222	NA	NA
11/15/17	393.31	81.93	311.38	7.09	13.1	215	1.72	3.72	**11**	4.2	3.3	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	**17**	4.9	3.9	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**	3.0	2.4	340	630	<0.01	4.82	**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	**8.6**	2.3	2.2	198	407	<0.01	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	**1.9**	1.1	0.33	61	76	<0.003	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	**4.3**	3.1	<5.0	247	335	<2.50[f]	<10.0	130	NA	NA	0.27[e]	<0.20

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 (May 2019).

[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-12
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	< 0.07[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	< 0.07[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	1.1	1.9	< 0.07[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	1.1	1.0	< 0.07[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	4.2	< 0.25	< 0.20	< 0.20	< 0.20	< 0.40	< 0.07[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	1.8	< 0.25	< 0.20	< 0.20	0.26	0.40 J	< 0.07[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	7.4	<0.10	0.08 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	0.03 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	2.6	<0.10	0.21	<0.20	1.2	<0.40	<0.20[g]	<0.20	1.4	<0.10	<0.20	NA	NA
11/15/17	400.00[e]	88.67	311.33[f]	6.78	13.0	199	5.09	2.4	<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	3.4	0.15	0.47	<0.20	2.7	<0.40	<0.20[g]	<0.20	3.2	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	2.4	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<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	1.3	<0.10	<0.20	<0.20	<0.20	<0.40	<0.01	<0.20	<0.50	<0.10	<0.20	NA	NA
08/08/19	400.00[e]	105.60	310.73[f]	6.66	12.0	166	8.70	NM	<0.10	<0.20	<0.20	<0.20	<0.60	<0.003	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	<0.01	<1.0	<1.0	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 (May 2019).
[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.

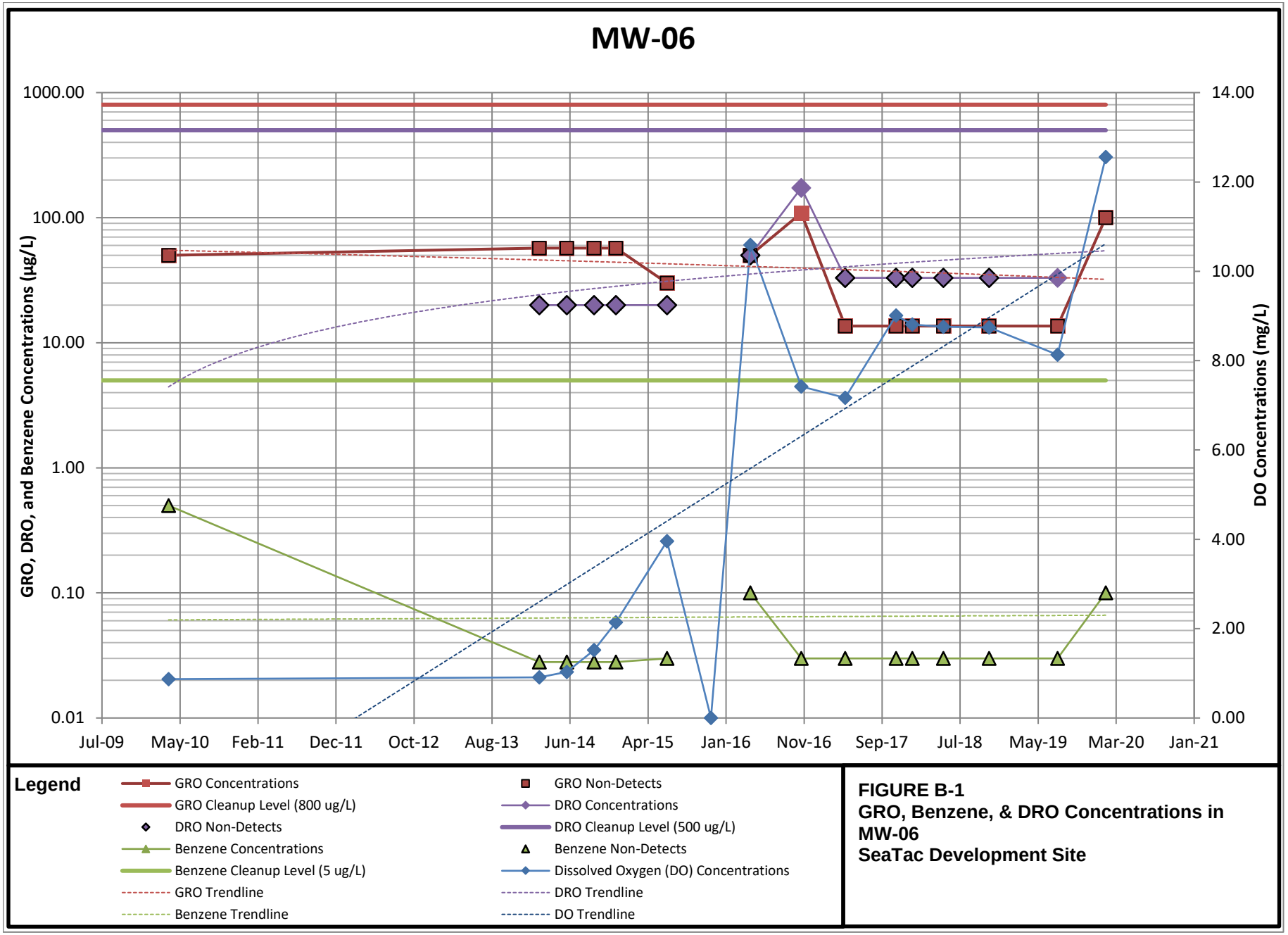
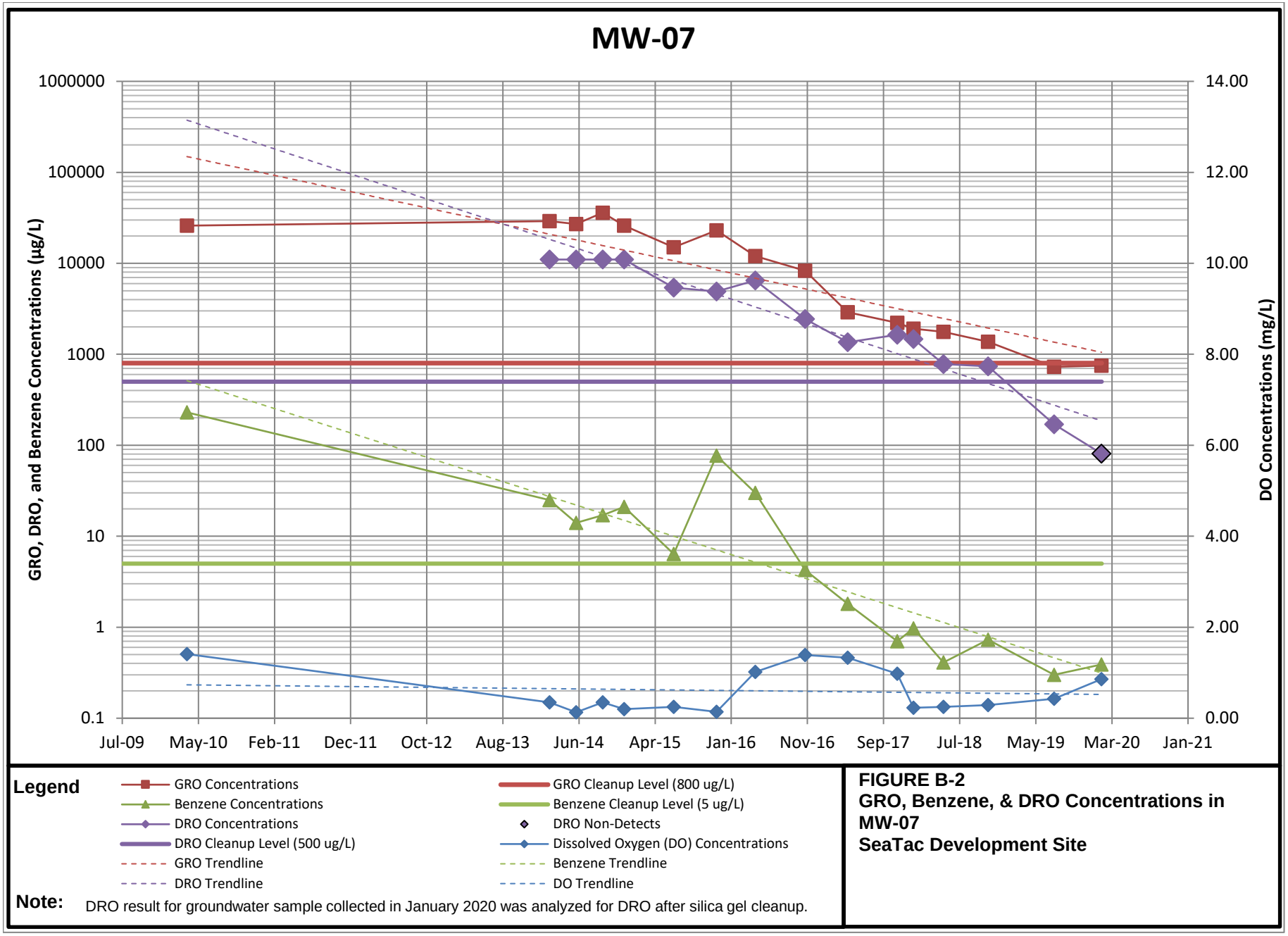


FIGURE B-1
GRO, Benzene, & DRO Concentrations in MW-06
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx



Note: DRO result for groundwater sample collected in January 2020 was analyzed for DRO after silica gel cleanup.

FIGURE B-2
GRO, Benzene, & DRO Concentrations in MW-07
SeaTac Development Site

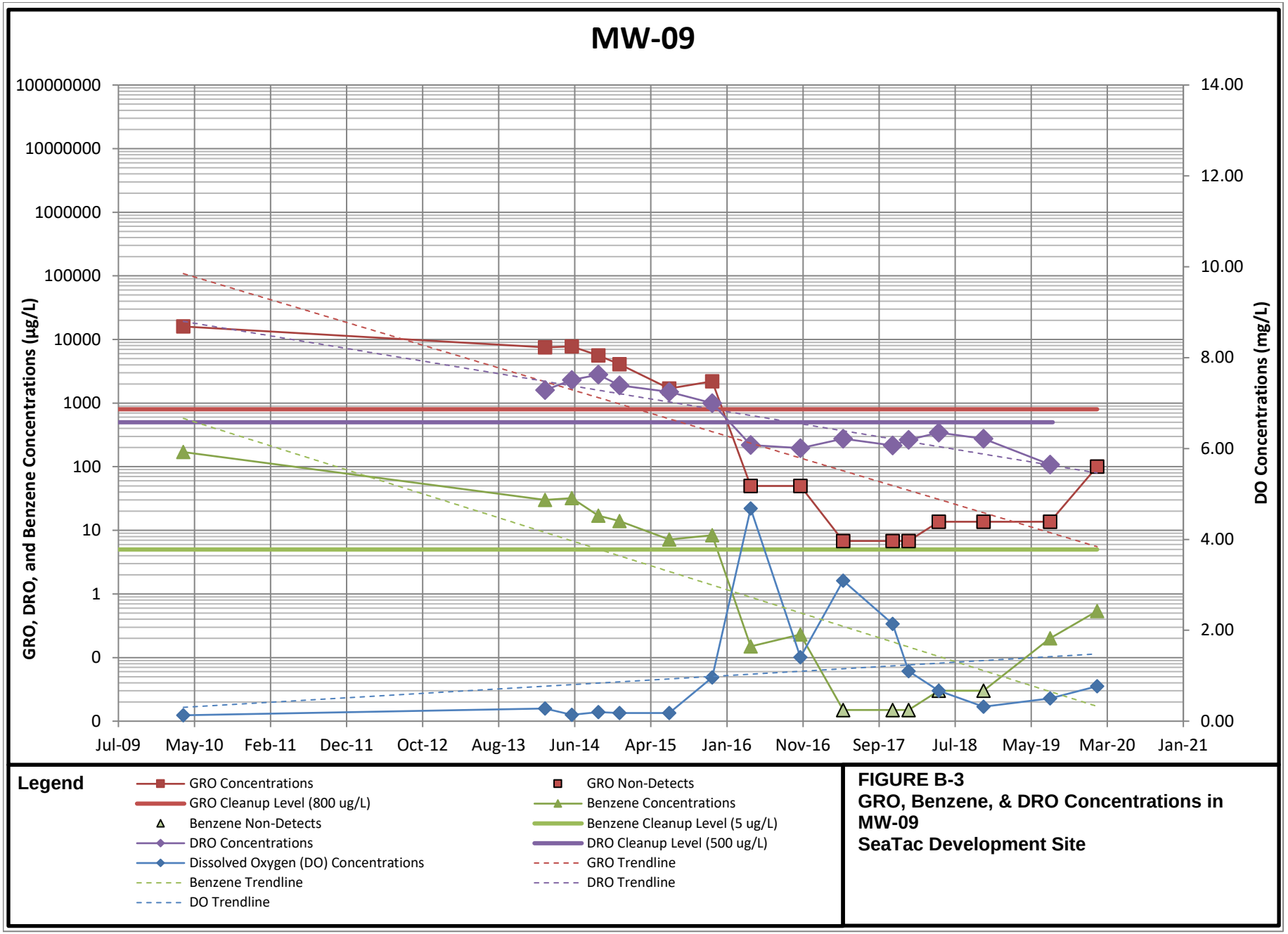
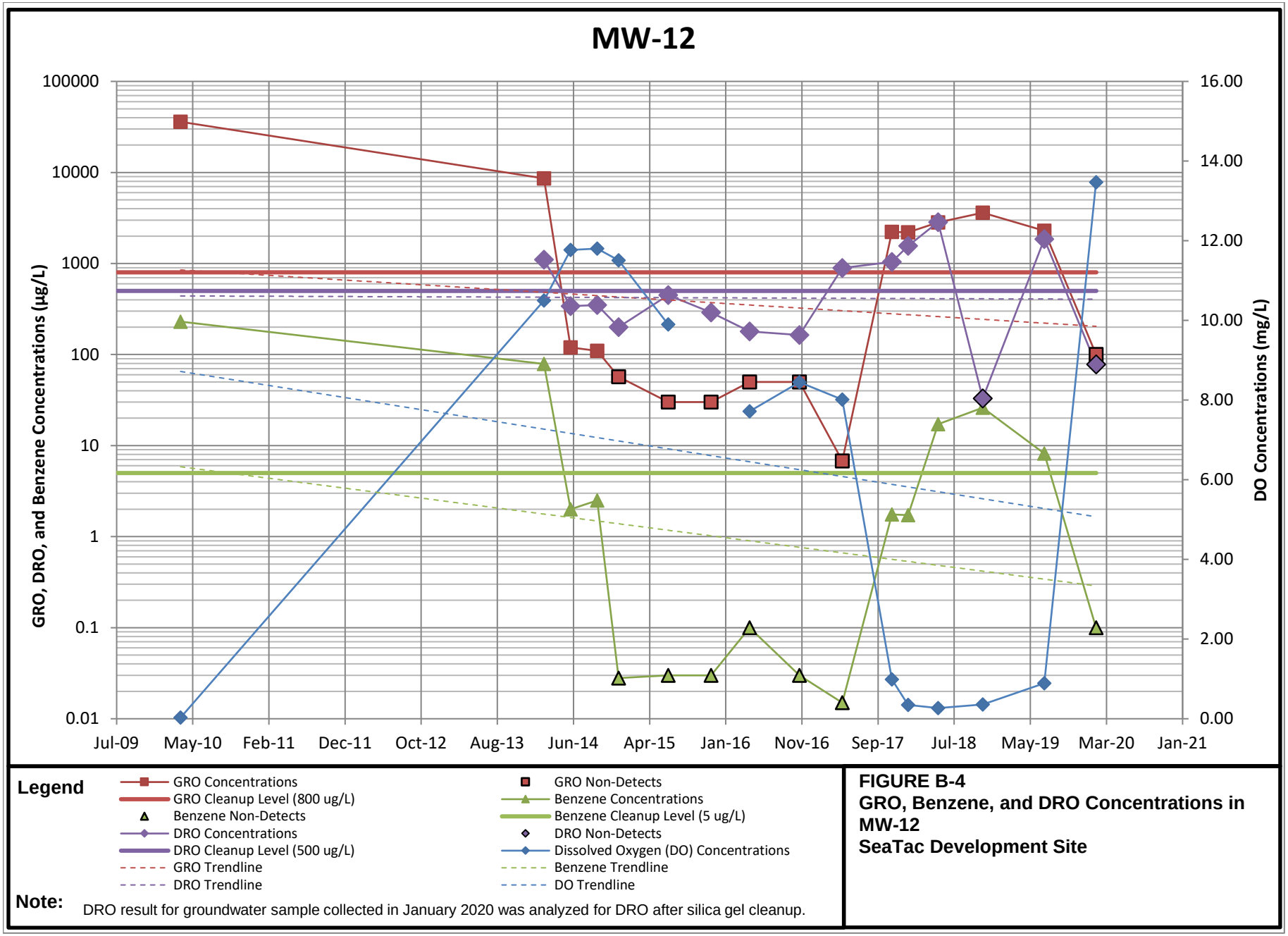


FIGURE B-3
GRO, Benzene, & DRO Concentrations in MW-09
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx



Note: DRO result for groundwater sample collected in January 2020 was analyzed for DRO after silica gel cleanup.

FIGURE B-4
GRO, Benzene, and DRO Concentrations in MW-12
SeaTac Development Site

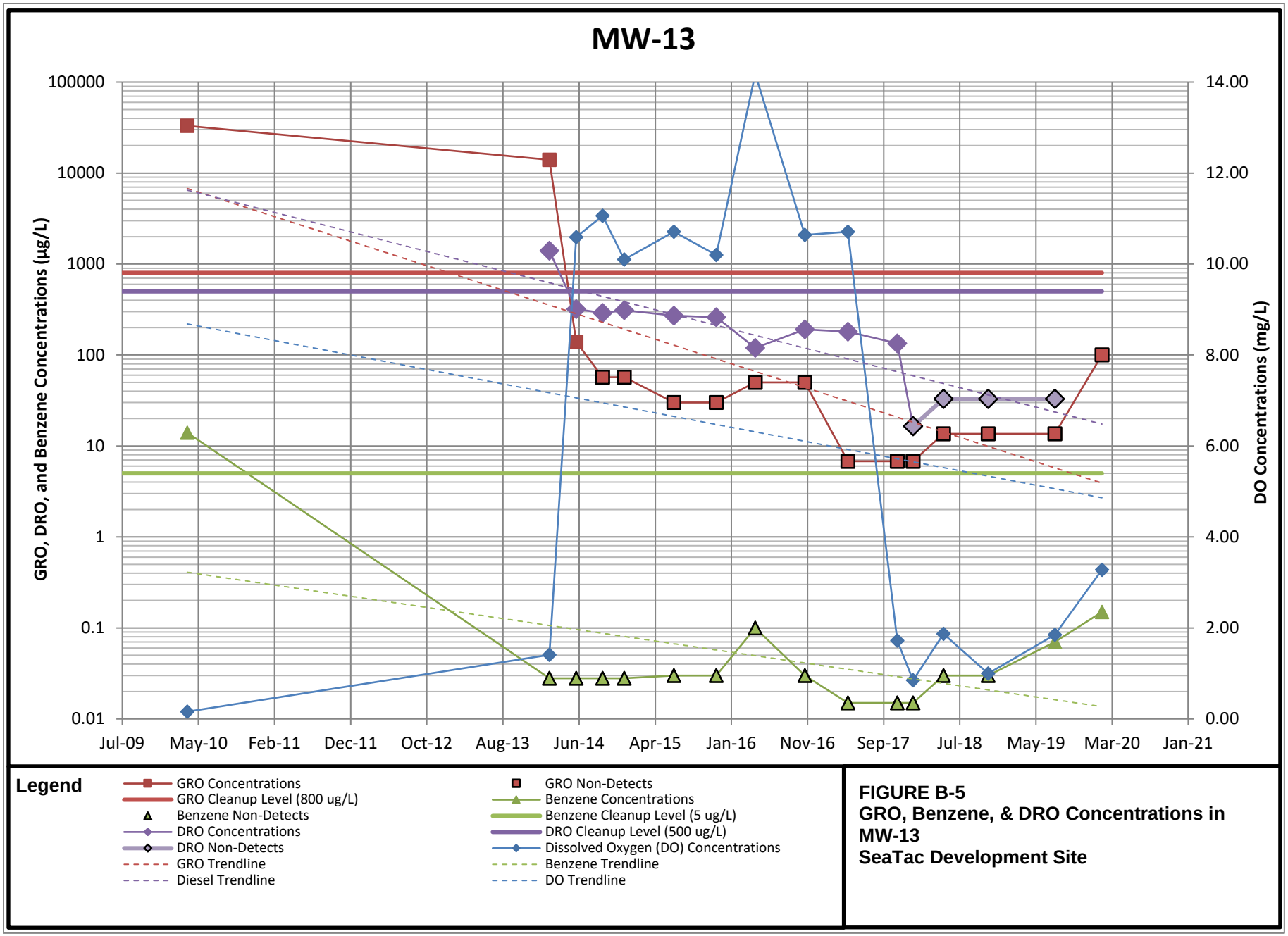


FIGURE B-5
GRO, Benzene, & DRO Concentrations in MW-13
SeaTac Development Site

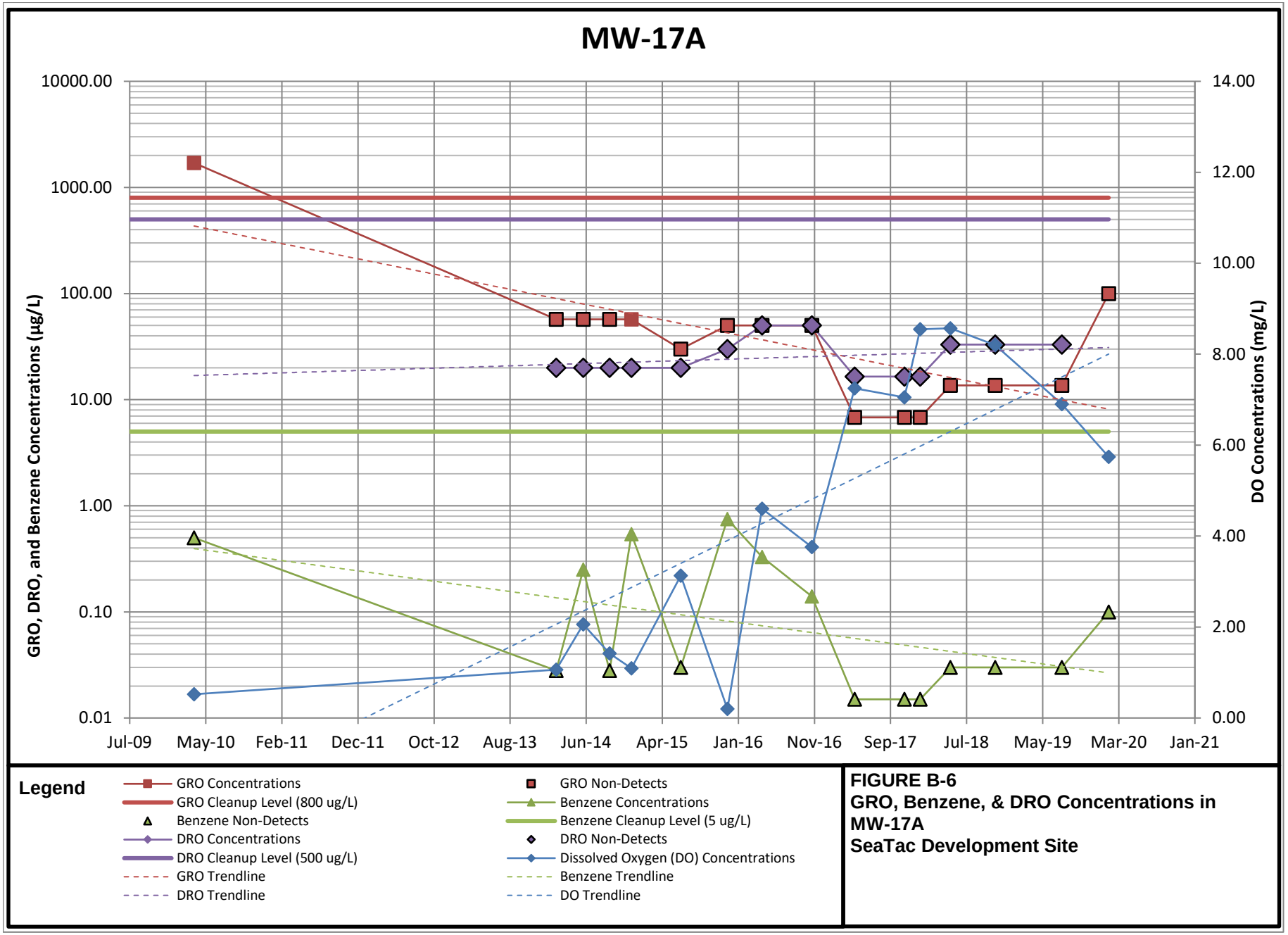


FIGURE B-6
GRO, Benzene, & DRO Concentrations in MW-17A
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx

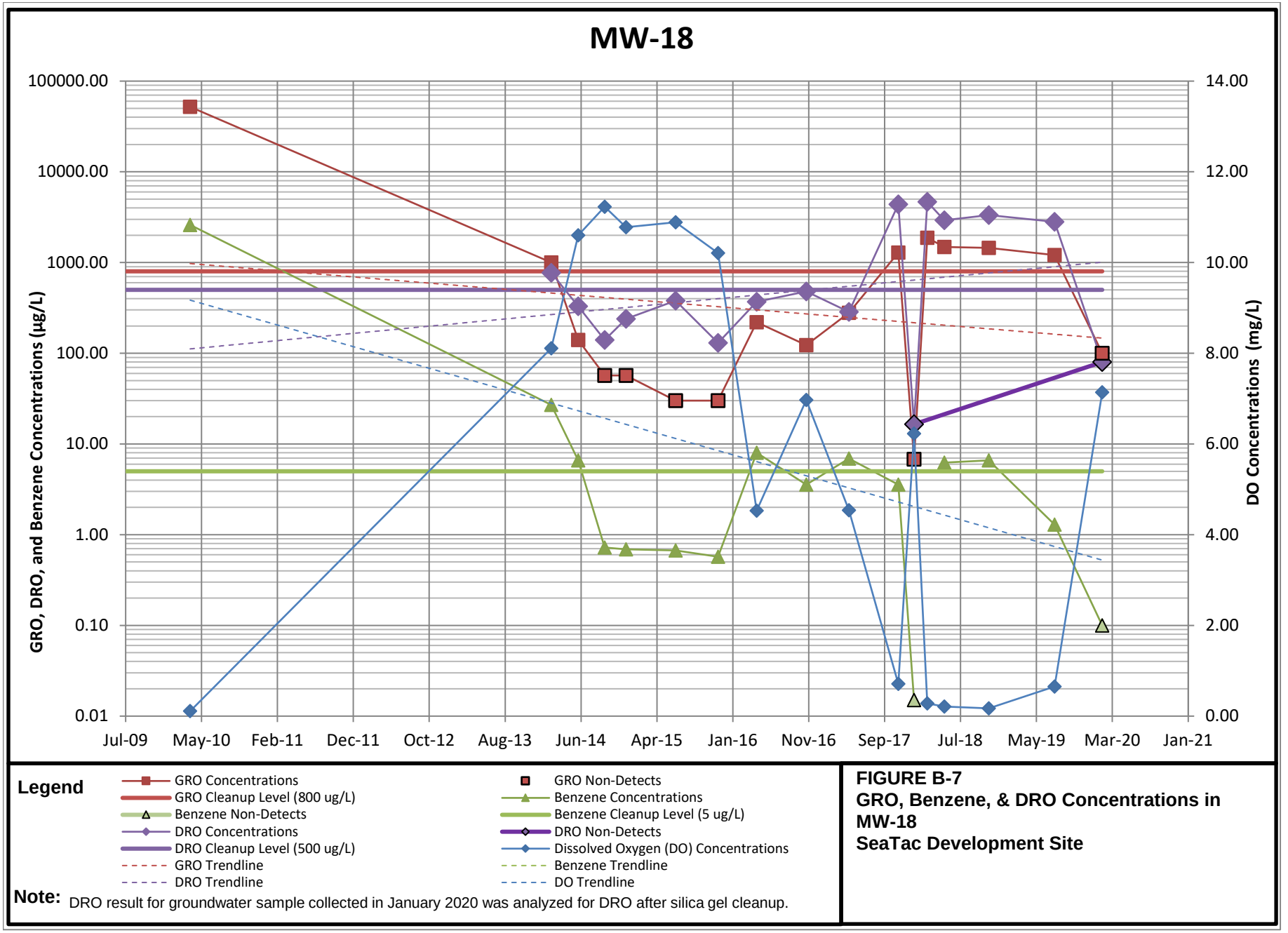


FIGURE B-7
GRO, Benzene, & DRO Concentrations in MW-18
SeaTac Development Site

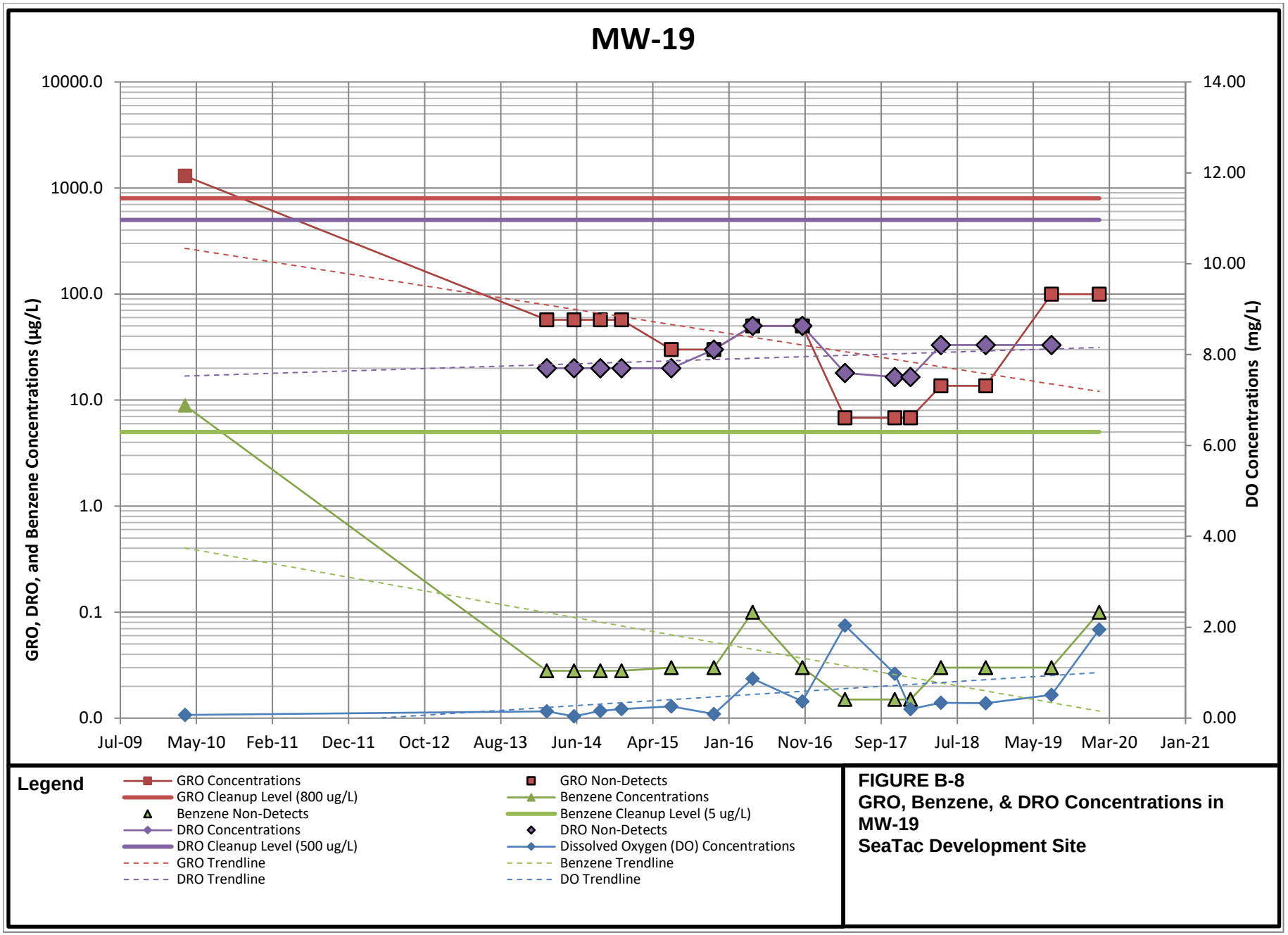


FIGURE B-8
GRO, Benzene, & DRO Concentrations in MW-19
SeaTac Development Site

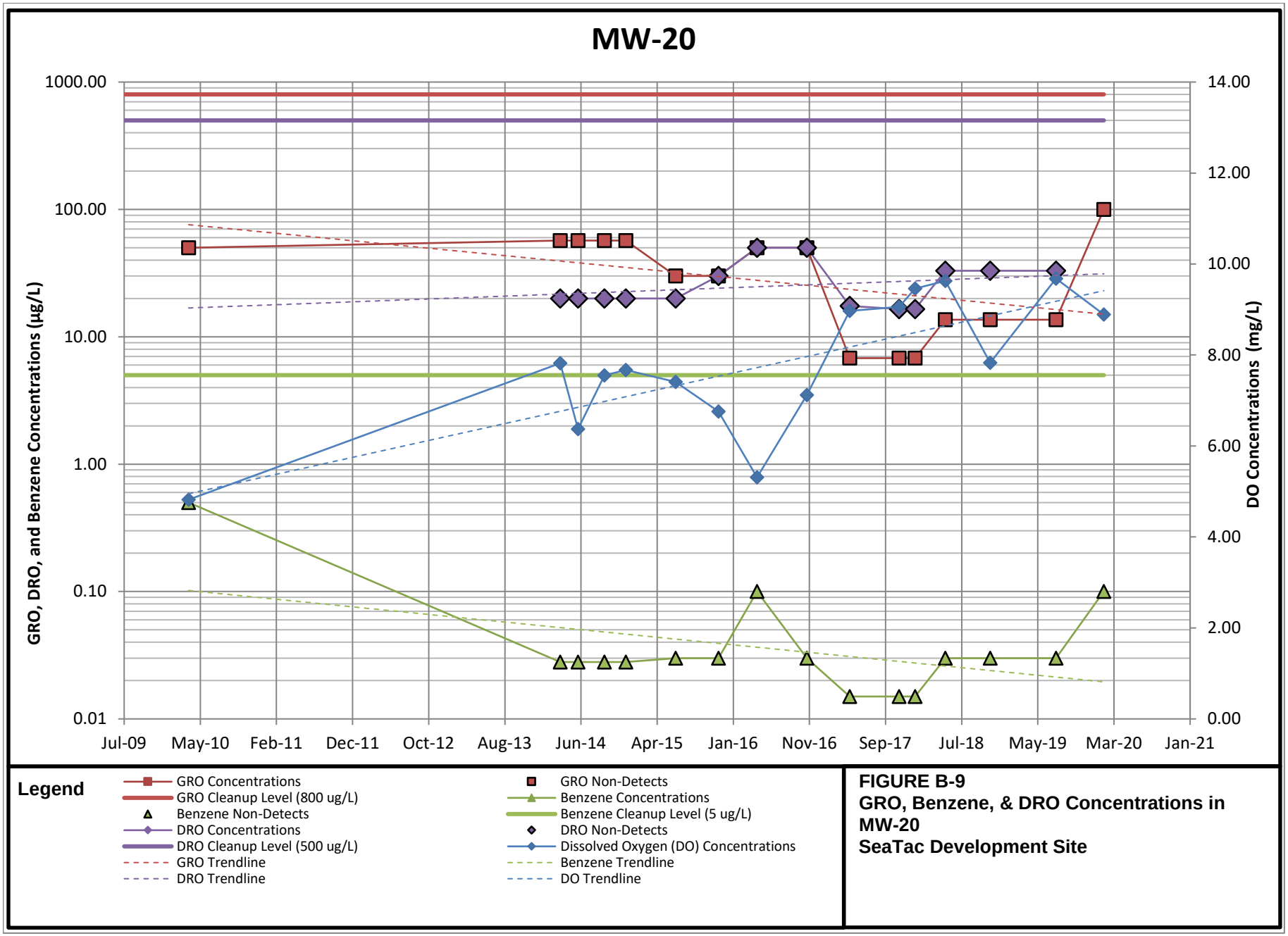


FIGURE B-9
GRO, Benzene, & DRO Concentrations in MW-20
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx

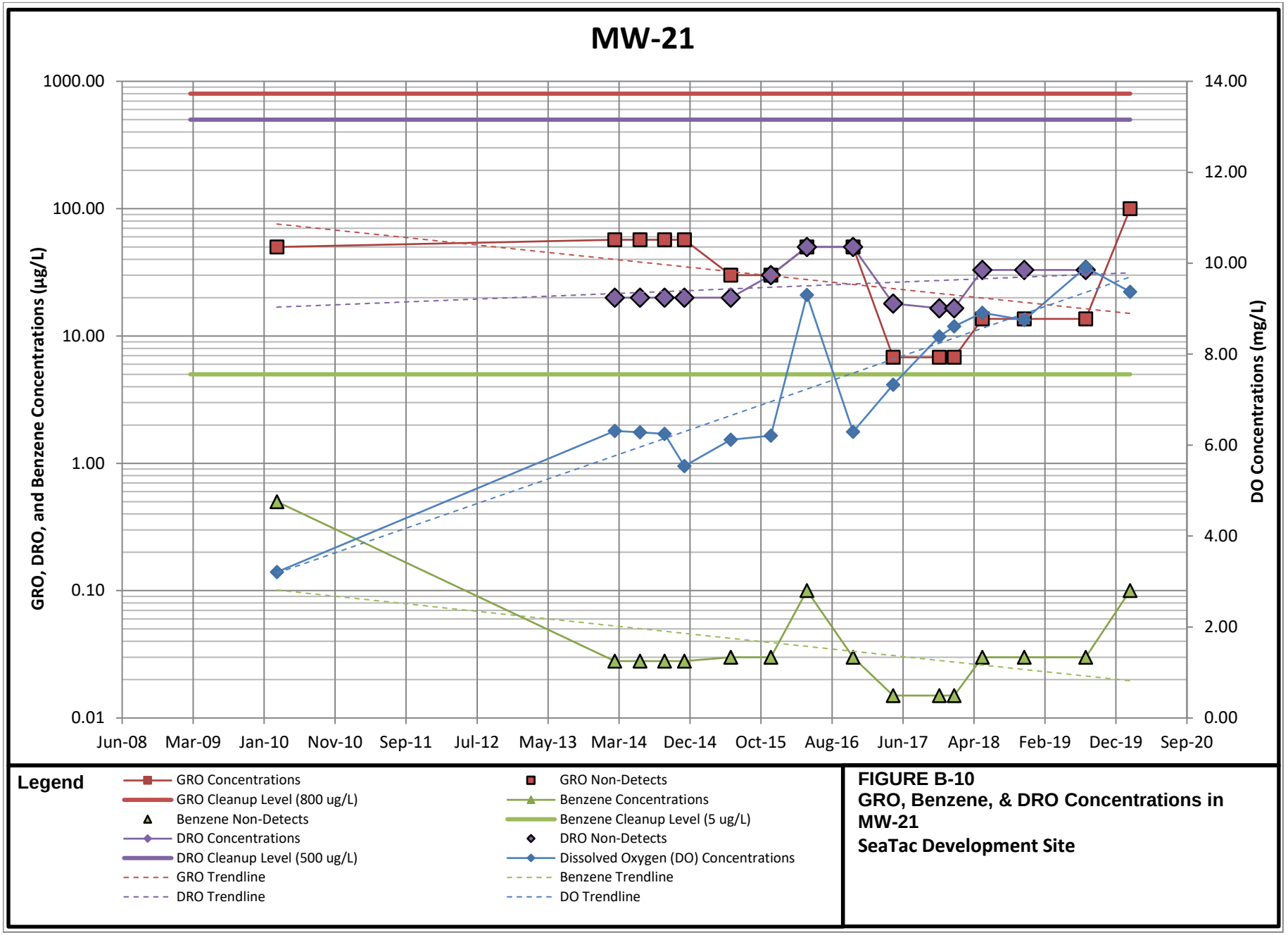
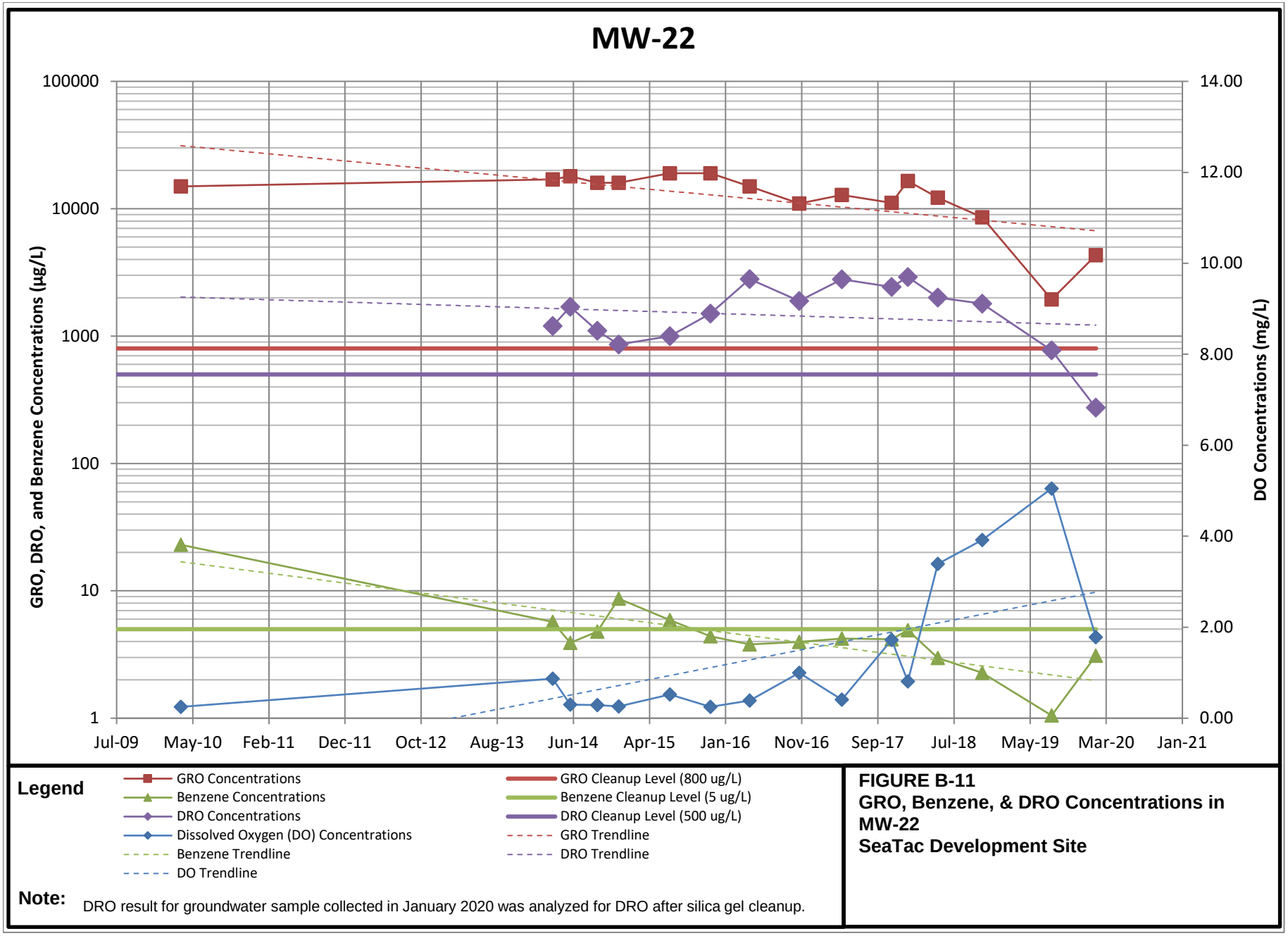


FIGURE B-10
GRO, Benzene, & DRO Concentrations in MW-21
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx



Note: DRO result for groundwater sample collected in January 2020 was analyzed for DRO after silica gel cleanup.

FIGURE B-11
GRO, Benzene, & DRO Concentrations in MW-22
SeaTac Development Site

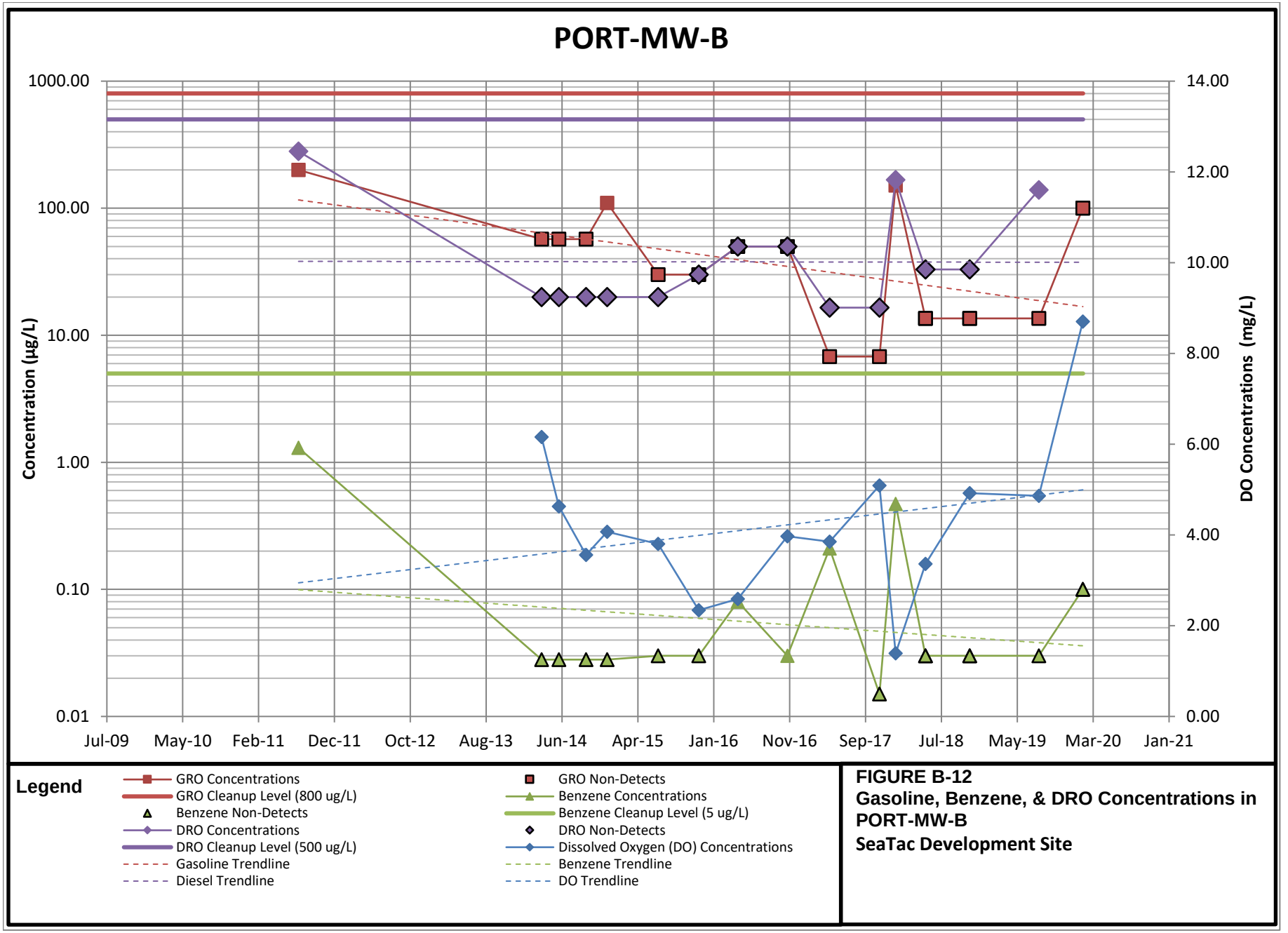


FIGURE B-12
Gasoline, Benzene, & DRO Concentrations in PORT-MW-B
SeaTac Development Site

N:\Bothell\1 PROJECTS\SeaTac Development Site\SLR Groundwater Sampling Reports\January 2020 Performance Monitoring Event\Tables and Graphs\Trend Graphs.xlsx

APPENDIX C

LABORATORY REPORT

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

Tuesday, February 18, 2020

Mike Staton
SLR Corporation-Bothell
22118 20th Ave SE
Bothell, WA 98021

RE: A0B0009 - Sea-Tac Development Site - 101.02207.00001

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 A0B0009, which was received by the laboratory on 2/1/2020 at 11:00:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1	1.9 degC	Cooler#2	2.3 degC
Cooler#3	3.3 degC	Cooler#4	4.1 degC
Cooler#5	5.1 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

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-06-0120	A0B0009-01	Water	01/30/20 09:30	02/01/20 11:00
MW-07-0120	A0B0009-02	Water	01/29/20 14:35	02/01/20 11:00
MW-09-0120	A0B0009-03	Water	01/30/20 12:18	02/01/20 11:00
MW-12-0120	A0B0009-04	Water	01/29/20 13:39	02/01/20 11:00
MW-13-0120	A0B0009-05	Water	01/30/20 11:29	02/01/20 11:00
MW-17A-0120	A0B0009-06	Water	01/30/20 13:24	02/01/20 11:00
MW-18-0120	A0B0009-07	Water	01/30/20 10:31	02/01/20 11:00
MW-19-0120	A0B0009-08	Water	01/30/20 08:46	02/01/20 11:00
MW-20-0120	A0B0009-09	Water	01/30/20 14:34	02/01/20 11:00
MW-21-0120	A0B0009-10	Water	01/30/20 15:38	02/01/20 11:00
MW-22-0120	A0B0009-11	Water	01/29/20 11:12	02/01/20 11:00
Port-MW-B-0120	A0B0009-12	Water	01/29/20 12:27	02/01/20 11:00
MW-30-0120	A0B0009-13	Water	01/29/20 14:35	02/01/20 11:00
Equip-Blank-0120	A0B0009-14	Water	01/30/20 14:45	02/01/20 11:00
Trip Blank	A0B0009-15	Water	01/30/20 00:00	02/01/20 11:00

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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.

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL CASE NARRATIVE

Work Order: A0B0009

Amended Report Revision 2:

Reporting to the Method Detection Limits (MDLs)-

This report supersedes all previous reports.

The final report has been amended to report EPA 8260 Select list samples to the MDLs.

Lisa Domenighini
Client Services Manager
2-18-2020

Amended Report Revision 1:

Missing Analysis-

This report supersedes all previous reports.

The final report has been amended to include the omitted results for EDB by EPA 8260 for sample MW-22-0120

Lisa Domenighini
Client Services Manager
2-17-2020

Apex Laboratories

Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-07-0120 (A0B0009-02)				**Matrix: Water**		**Batch: 0020114**		
Diesel	ND	---	80.8	ug/L	1	02/05/20 23:41	NWTPH-Dx/SGC	
Oil	ND	---	162	ug/L	1	02/05/20 23:41	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 71 %*		*Limits: 50-150 %*	*1*	*02/05/20 23:41*	*NWTPH-Dx/SGC*	
MW-12-0120 (A0B0009-04)				**Matrix: Water**		**Batch: 0020114**		
Diesel	ND	---	77.7	ug/L	1	02/06/20 00:02	NWTPH-Dx/SGC	
Oil	ND	---	155	ug/L	1	02/06/20 00:02	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 71 %*		*Limits: 50-150 %*	*1*	*02/06/20 00:02*	*NWTPH-Dx/SGC*	
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020114**		
Diesel	ND	---	80.0	ug/L	1	02/06/20 00:21	NWTPH-Dx/SGC	
Oil	ND	---	160	ug/L	1	02/06/20 00:21	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 88 %*		*Limits: 50-150 %*	*1*	*02/06/20 00:21*	*NWTPH-Dx/SGC*	
MW-22-0120 (A0B0009-11)				**Matrix: Water**		**Batch: 0020114**		
Diesel	**274**	---	76.2	ug/L	1	02/06/20 00:41	NWTPH-Dx/SGC	**F-18**
Oil	ND	---	152	ug/L	1	02/06/20 00:41	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 91 %*		*Limits: 50-150 %*	*1*	*02/06/20 00:41*	*NWTPH-Dx/SGC*	
MW-30-0120 (A0B0009-13)				**Matrix: Water**		**Batch: 0020114**		
Diesel	**117**	---	86.0	ug/L	1	02/06/20 01:01	NWTPH-Dx/SGC	**F-18**
Oil	ND	---	172	ug/L	1	02/06/20 01:01	NWTPH-Dx/SGC	
Surrogate: o-Terphenyl (Surr)		*Recovery: 75 %*		*Limits: 50-150 %*	*1*	*02/06/20 01:01*	*NWTPH-Dx/SGC*	

Apex Laboratories

Lisa Domenighini, Client Services Manager

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.

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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-06-0120 (A0B0009-01)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 03:51	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 97 %*	*Limits: 50-150 %*		*1*	*02/05/20 03:51*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*96 %*	*50-150 %*		*1*	*02/05/20 03:51*	*NWTPH-Gx (MS)*	
MW-07-0120 (A0B0009-02)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	**751**	---	100	ug/L	1	02/05/20 04:18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*	*Limits: 50-150 %*		*1*	*02/05/20 04:18*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*96 %*	*50-150 %*		*1*	*02/05/20 04:18*	*NWTPH-Gx (MS)*	
MW-09-0120 (A0B0009-03)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 04:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*	*Limits: 50-150 %*		*1*	*02/05/20 04:45*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*97 %*	*50-150 %*		*1*	*02/05/20 04:45*	*NWTPH-Gx (MS)*	
MW-12-0120 (A0B0009-04RE1)				**Matrix: Water**		**Batch: 0020140**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 18:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*	*Limits: 50-150 %*		*1*	*02/05/20 18:43*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*02/05/20 18:43*	*NWTPH-Gx (MS)*	
MW-13-0120 (A0B0009-05)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 06:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 101 %*	*Limits: 50-150 %*		*1*	*02/05/20 06:06*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*02/05/20 06:06*	*NWTPH-Gx (MS)*	
MW-17A-0120 (A0B0009-06)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 06:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 06:33*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*02/05/20 06:33*	*NWTPH-Gx (MS)*	
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 07:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 99 %*	*Limits: 50-150 %*		*1*	*02/05/20 07:00*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*02/05/20 07:00*	*NWTPH-Gx (MS)*	
MW-19-0120 (A0B0009-08)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 07:27	NWTPH-Gx (MS)	

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Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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-19-0120 (A0B0009-08)				**Matrix: Water**		**Batch: 0020099**		
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 07:27*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*103 %*	*50-150 %*		*1*	*02/05/20 07:27*	*NWTPH-Gx (MS)*	
MW-20-0120 (A0B0009-09)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 07:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*	*Limits: 50-150 %*		*1*	*02/05/20 07:54*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*02/05/20 07:54*	*NWTPH-Gx (MS)*	
MW-21-0120 (A0B0009-10)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 08:21	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 08:21*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*103 %*	*50-150 %*		*1*	*02/05/20 08:21*	*NWTPH-Gx (MS)*	
MW-22-0120 (A0B0009-11)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	**4320**	---	1000	ug/L	10	02/05/20 08:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 08:48*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*101 %*	*50-150 %*		*1*	*02/05/20 08:48*	*NWTPH-Gx (MS)*	
Port-MW-B-0120 (A0B0009-12)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 09:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*	*Limits: 50-150 %*		*1*	*02/05/20 09:42*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*02/05/20 09:42*	*NWTPH-Gx (MS)*	
MW-30-0120 (A0B0009-13)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	**768**	---	100	ug/L	1	02/05/20 10:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*	*Limits: 50-150 %*		*1*	*02/05/20 10:09*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*	*50-150 %*		*1*	*02/05/20 10:09*	*NWTPH-Gx (MS)*	
Equip-Blank-0120 (A0B0009-14)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 00:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 00:42*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*100 %*	*50-150 %*		*1*	*02/05/20 00:42*	*NWTPH-Gx (MS)*	
Trip Blank (A0B0009-15)				**Matrix: Water**		**Batch: 0020099**		
Gasoline Range Organics	ND	---	100	ug/L	1	02/05/20 01:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 01:09*	*NWTPH-Gx (MS)*	

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EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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
Trip Blank (A0B0009-15)				**Matrix: Water**		**Batch: 0020099**		
Surrogate: 1,4-Difluorobenzene (Sur)		*Recovery: 100 %*	*Limits: 50-150 %*		*1*	*02/05/20 01:09*	*NWTPH-Gx (MS)*	

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Trip Blank (A0B0009-15)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	---	0.200	ug/L	1	02/05/20 01:09	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	02/05/20 01:09	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	02/05/20 01:09	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	02/05/20 01:09	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*115 %*	*Limits:* *80-120 %*	*1*	*02/05/20 01:09*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*02/05/20 01:09*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*02/05/20 01:09*	*EPA 8260C*	

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Lisa A Domenighini

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-06-0120 (A0B0009-01)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 03:51	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 03:51	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 03:51	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 03:51	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 03:51	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 03:51	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*117 %*	*Limits: 80-120 %*	*1*	*02/05/20 03:51*	*EPA 8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*02/05/20 03:51*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*02/05/20 03:51*	*EPA 8260C*	
MW-07-0120 (A0B0009-02)				**Matrix: Water**		**Batch: 0020099**		
Benzene	**0.388**	0.100	0.200	ug/L	1	02/05/20 04:18	EPA 8260C	
Ethylbenzene	**2.34**	0.250	0.500	ug/L	1	02/05/20 04:18	EPA 8260C	
n-Hexane	**6.97**	1.00	2.00	ug/L	1	02/05/20 04:18	EPA 8260C	
Naphthalene	**5.08**	1.00	2.00	ug/L	1	02/05/20 04:18	EPA 8260C	
Toluene	**8.07**	0.500	1.00	ug/L	1	02/05/20 04:18	EPA 8260C	
Xylenes, total	**11.0**	0.750	1.50	ug/L	1	02/05/20 04:18	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*117 %*	*Limits: 80-120 %*	*1*	*02/05/20 04:18*	*EPA 8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*02/05/20 04:18*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*02/05/20 04:18*	*EPA 8260C*	
MW-09-0120 (A0B0009-03)				**Matrix: Water**		**Batch: 0020099**		
Benzene	**0.542**	0.100	0.200	ug/L	1	02/05/20 04:45	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 04:45	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 04:45	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 04:45	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 04:45	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 04:45	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*117 %*	*Limits: 80-120 %*	*1*	*02/05/20 04:45*	*EPA 8260C*	
Toluene-d8 (Surr)			*96 %*	*80-120 %*	*1*	*02/05/20 04:45*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*104 %*	*80-120 %*	*1*	*02/05/20 04:45*	*EPA 8260C*	
MW-12-0120 (A0B0009-04RE1)				**Matrix: Water**		**Batch: 0020140**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 18:43	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 18:43	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 18:43	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 18:43	EPA 8260C	

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12-0120 (A0B0009-04RE1)				**Matrix: Water**		**Batch: 0020140**		
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 18:43	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 18:43	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*115 %*	*Limits: 80-120 %*	*1*	*02/05/20 18:43*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*02/05/20 18:43*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*02/05/20 18:43*	*EPA 8260C*	
MW-13-0120 (A0B0009-05)				**Matrix: Water**		**Batch: 0020099**		
Benzene	**0.152**	0.100	0.200	ug/L	1	02/05/20 06:06	EPA 8260C	**J**
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 06:06	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 06:06	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 06:06	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 06:06	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 06:06	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*116 %*	*Limits: 80-120 %*	*1*	*02/05/20 06:06*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*02/05/20 06:06*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*02/05/20 06:06*	*EPA 8260C*	
MW-17A-0120 (A0B0009-06)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 06:33	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 06:33	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 06:33	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 06:33	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 06:33	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 06:33	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*117 %*	*Limits: 80-120 %*	*1*	*02/05/20 06:33*	*EPA 8260C*	
Toluene-d8 (Surr)			*98 %*	*80-120 %*	*1*	*02/05/20 06:33*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*103 %*	*80-120 %*	*1*	*02/05/20 06:33*	*EPA 8260C*	
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 07:00	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 07:00	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 07:00	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 07:00	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 07:00	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 07:00	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*116 %*	*Limits: 80-120 %*	*1*	*02/05/20 07:00*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*02/05/20 07:00*	*EPA 8260C*	

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EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020099**		
Surrogate: 4-Bromofluorobenzene (Surr)		*Recovery: 103 %*	*Limits: 80-120 %*		*1*	*02/05/20 07:00*	*EPA 8260C*	
MW-19-0120 (A0B0009-08)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 07:27	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 07:27	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 07:27	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 07:27	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 07:27	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 07:27	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 117 %*	*Limits: 80-120 %*		*1*	*02/05/20 07:27*	*EPA 8260C*	
Toluene-d8 (Surr)		*100 %*	*80-120 %*		*1*	*02/05/20 07:27*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*103 %*	*80-120 %*		*1*	*02/05/20 07:27*	*EPA 8260C*	
MW-20-0120 (A0B0009-09)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 07:54	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 07:54	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 07:54	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 07:54	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 07:54	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 07:54	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 119 %*	*Limits: 80-120 %*		*1*	*02/05/20 07:54*	*EPA 8260C*	
Toluene-d8 (Surr)		*97 %*	*80-120 %*		*1*	*02/05/20 07:54*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*103 %*	*80-120 %*		*1*	*02/05/20 07:54*	*EPA 8260C*	
MW-21-0120 (A0B0009-10)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 08:21	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 08:21	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 08:21	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 08:21	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 08:21	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 08:21	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery: 116 %*	*Limits: 80-120 %*		*1*	*02/05/20 08:21*	*EPA 8260C*	
Toluene-d8 (Surr)		*101 %*	*80-120 %*		*1*	*02/05/20 08:21*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)		*103 %*	*80-120 %*		*1*	*02/05/20 08:21*	*EPA 8260C*	
MW-22-0120 (A0B0009-11)				**Matrix: Water**		**Batch: 0020099**		
Benzene	**3.10**	1.00	2.00	ug/L	10	02/05/20 08:48	EPA 8260C	

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-22-0120 (A0B0009-11)				**Matrix: Water**		**Batch: 0020099**		
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	02/05/20 08:48	EPA 8260C	
Ethylbenzene	**247**	2.50	5.00	ug/L	10	02/05/20 08:48	EPA 8260C	
n-Hexane	ND	10.0	20.0	ug/L	10	02/05/20 08:48	EPA 8260C	
Naphthalene	**130**	10.0	20.0	ug/L	10	02/05/20 08:48	EPA 8260C	
Toluene	ND	5.00	10.0	ug/L	10	02/05/20 08:48	EPA 8260C	
Xylenes, total	**335**	7.50	15.0	ug/L	10	02/05/20 08:48	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*114 %*	*Limits: 80-120 %*	*1*	*02/05/20 08:48*	*EPA 8260C*	
Toluene-d8 (Surr)			*101 %*	*80-120 %*	*1*	*02/05/20 08:48*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*100 %*	*80-120 %*	*1*	*02/05/20 08:48*	*EPA 8260C*	
Port-MW-B-0120 (A0B0009-12)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 09:42	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 09:42	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 09:42	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 09:42	EPA 8260C	
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 09:42	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 09:42	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*117 %*	*Limits: 80-120 %*	*1*	*02/05/20 09:42*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*02/05/20 09:42*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*102 %*	*80-120 %*	*1*	*02/05/20 09:42*	*EPA 8260C*	
MW-30-0120 (A0B0009-13)				**Matrix: Water**		**Batch: 0020099**		
Benzene	**0.361**	0.100	0.200	ug/L	1	02/05/20 10:09	EPA 8260C	
Ethylbenzene	**2.30**	0.250	0.500	ug/L	1	02/05/20 10:09	EPA 8260C	
n-Hexane	**7.05**	1.00	2.00	ug/L	1	02/05/20 10:09	EPA 8260C	**Q-42**
Naphthalene	**4.82**	1.00	2.00	ug/L	1	02/05/20 10:09	EPA 8260C	
Toluene	**7.86**	0.500	1.00	ug/L	1	02/05/20 10:09	EPA 8260C	
Xylenes, total	**10.6**	0.750	1.50	ug/L	1	02/05/20 10:09	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*116 %*	*Limits: 80-120 %*	*1*	*02/05/20 10:09*	*EPA 8260C*	
Toluene-d8 (Surr)			*100 %*	*80-120 %*	*1*	*02/05/20 10:09*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*101 %*	*80-120 %*	*1*	*02/05/20 10:09*	*EPA 8260C*	
Equip-Blank-0120 (A0B0009-14)				**Matrix: Water**		**Batch: 0020099**		
Benzene	ND	0.100	0.200	ug/L	1	02/05/20 00:42	EPA 8260C	
Ethylbenzene	ND	0.250	0.500	ug/L	1	02/05/20 00:42	EPA 8260C	
n-Hexane	ND	1.00	2.00	ug/L	1	02/05/20 00:42	EPA 8260C	
Naphthalene	ND	1.00	2.00	ug/L	1	02/05/20 00:42	EPA 8260C	

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equip-Blank-0120 (A0B0009-14)				**Matrix: Water**		**Batch: 0020099**		
Toluene	ND	0.500	1.00	ug/L	1	02/05/20 00:42	EPA 8260C	
Xylenes, total	ND	0.750	1.50	ug/L	1	02/05/20 00:42	EPA 8260C	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*113 %*	*Limits: 80-120 %*	*1*	*02/05/20 00:42*	*EPA 8260C*	
Toluene-d8 (Surr)			*99 %*	*80-120 %*	*1*	*02/05/20 00:42*	*EPA 8260C*	
4-Bromofluorobenzene (Surr)			*105 %*	*80-120 %*	*1*	*02/05/20 00:42*	*EPA 8260C*	

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Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-06-0120 (A0B0009-01)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 16:55	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 70-130 %*	*1*	*02/06/20 16:55*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 16:55*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 16:55*	*EPA 8260C SIM*	
MW-07-0120 (A0B0009-02)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	02/06/20 22:45	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*92 %*	*Limits: 70-130 %*	*1*	*02/06/20 22:45*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 22:45*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*95 %*	*70-130 %*	*1*	*02/06/20 22:45*	*EPA 8260C SIM*	
MW-09-0120 (A0B0009-03)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 18:16	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*95 %*	*Limits: 70-130 %*	*1*	*02/06/20 18:16*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*101 %*	*70-130 %*	*1*	*02/06/20 18:16*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*98 %*	*70-130 %*	*1*	*02/06/20 18:16*	*EPA 8260C SIM*	
MW-12-0120 (A0B0009-04)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 19:10	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*91 %*	*Limits: 70-130 %*	*1*	*02/06/20 19:10*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 19:10*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*98 %*	*70-130 %*	*1*	*02/06/20 19:10*	*EPA 8260C SIM*	
MW-13-0120 (A0B0009-05)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 23:12	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*91 %*	*Limits: 70-130 %*	*1*	*02/06/20 23:12*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 23:12*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*96 %*	*70-130 %*	*1*	*02/06/20 23:12*	*EPA 8260C SIM*	
MW-17A-0120 (A0B0009-06)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 19:37	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*92 %*	*Limits: 70-130 %*	*1*	*02/06/20 19:37*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 19:37*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 19:37*	*EPA 8260C SIM*	
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020203**		

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-18-0120 (A0B0009-07)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 20:04	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*91 %*	*Limits: 70-130 %*	*1*	*02/06/20 20:04*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 20:04*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 20:04*	*EPA 8260C SIM*	
MW-19-0120 (A0B0009-08)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 20:31	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*96 %*	*Limits: 70-130 %*	*1*	*02/06/20 20:31*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 20:31*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 20:31*	*EPA 8260C SIM*	
MW-20-0120 (A0B0009-09)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 20:58	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*92 %*	*Limits: 70-130 %*	*1*	*02/06/20 20:58*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 20:58*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*98 %*	*70-130 %*	*1*	*02/06/20 20:58*	*EPA 8260C SIM*	
MW-21-0120 (A0B0009-10)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 21:24	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*91 %*	*Limits: 70-130 %*	*1*	*02/06/20 21:24*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 21:24*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 21:24*	*EPA 8260C SIM*	
Port-MW-B-0120 (A0B0009-12)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 21:51	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*95 %*	*Limits: 70-130 %*	*1*	*02/06/20 21:51*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 21:51*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 21:51*	*EPA 8260C SIM*	
MW-30-0120 (A0B0009-13)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	02/06/20 23:39	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*92 %*	*Limits: 70-130 %*	*1*	*02/06/20 23:39*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 23:39*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*95 %*	*70-130 %*	*1*	*02/06/20 23:39*	*EPA 8260C SIM*	
Equip-Blank-0120 (A0B0009-14)				**Matrix: Water**		**Batch: 0020203**		

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Equip-Blank-0120 (A0B0009-14)				**Matrix: Water**		**Batch: 0020203**		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/20 22:18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		*Recovery:*	*93 %*	*Limits:* *70-130 %*	*1*	*02/06/20 22:18*	*EPA 8260C SIM*	
Toluene-d8 (Surr)			*100 %*	*70-130 %*	*1*	*02/06/20 22:18*	*EPA 8260C SIM*	
4-Bromofluorobenzene (Surr)			*99 %*	*70-130 %*	*1*	*02/06/20 22:18*	*EPA 8260C SIM*	

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020114 - EPA 3510C (Fuels/Acid Ext.)												**Water**
Blank (0020114-BLK1)			Prepared: 02/05/20 06:57		Analyzed: 02/05/20 21:02							
NWTPH-Dx/SGC												
Diesel	ND	---	72.7	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	145	ug/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 75 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS (0020114-BS1)			Prepared: 02/05/20 06:57		Analyzed: 02/05/20 21:22							
NWTPH-Dx/SGC												
Diesel	338	---	80.0	ug/L	1	500	---	68	58 - 115%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 77 %*		*Limits: 50-150 %*		*Dilution: 1x*					
LCS Dup (0020114-BSD1)			Prepared: 02/05/20 06:57		Analyzed: 02/05/20 21:42							**Q-19**
NWTPH-Dx/SGC												
Diesel	344	---	80.0	ug/L	1	500	---	69	58 - 115%	2	20%	
Surr: o-Terphenyl (Surr)			*Recovery: 80 %*		*Limits: 50-150 %*		*Dilution: 1x*					

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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 0020099 - EPA 5030B									Water			
Blank (0020099-BLK1)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 00:13								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 72 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*101 %*		*50-150 %*			*"*					
LCS (0020099-BS2)		Prepared: 02/04/20 14:30		Analyzed: 02/04/20 23:46								
NWTPH-Gx (MS)												
Gasoline Range Organics	424	---	100	ug/L	1	500	---	85	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*96 %*		*50-150 %*			*"*					
Duplicate (0020099-DUP1)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 05:39								
QC Source Sample: MW-12-0120 (A0B0009-04)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5000	ug/L	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 98 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*100 %*		*50-150 %*			*"*					
Duplicate (0020099-DUP2)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 09:15								
QC Source Sample: MW-22-0120 (A0B0009-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	**4140**	---	1000	ug/L	10	---	4320	---	---	4	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*99 %*		*50-150 %*			*"*					

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Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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 0020140 - EPA 5030B									Water			
Blank (0020140-BLK1)		Prepared: 02/05/20 12:00		Analyzed: 02/05/20 14:39								
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 100 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*97 %*		*50-150 %*			*"*					
LCS (0020140-BS1)		Prepared: 02/05/20 12:00		Analyzed: 02/05/20 13:18								
NWTPH-Gx (MS)												
Gasoline Range Organics	419	---	100	ug/L	1	500	---	84	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery: 102 %*		*Limits: 50-150 %*			*Dilution: 1x*					
1,4-Difluorobenzene (Sur)		*96 %*		*50-150 %*			*"*					

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AMENDED REPORT

SLR Corporation-Bothell	Project: Sea-Tac Development Site	
22118 20th Ave SE	Project Number: 101.02207.00001	Report ID:
Bothell, WA 98021	Project Manager: Mike Staton	A0B0009 - 02 18 20 0552

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020099 - EPA 5030B									Water			
Blank (0020099-BLK1)		Prepared: 02/04/20 14:30 Analyzed: 02/05/20 00:13										
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 115 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*119 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*103 %*		*80-120 %*			*"*					
LCS (0020099-BS1)		Prepared: 02/04/20 14:30 Analyzed: 02/04/20 23:19										
EPA 8260C												
Benzene	20.5	---	0.200	ug/L	1	20.0	---	102	80 - 120%	---	---	
Toluene	18.4	---	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Ethylbenzene	19.1	---	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
Xylenes, total	56.1	---	1.50	ug/L	1	60.0	---	94	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 112 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*95 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*99 %*		*80-120 %*			*"*					
Duplicate (0020099-DUP1)		Prepared: 02/04/20 14:30 Analyzed: 02/05/20 05:39										
QC Source Sample: MW-12-0120 (A0B0009-04)												
EPA 8260C												
Benzene	ND	---	10.0	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	---	50.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	25.0	ug/L	50	---	ND	---	---	---	30%	
Xylenes, total	ND	---	75.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery: 114 %*		*Limits: 80-120 %*			*Dilution: 1x*					
Toluene-d8 (Surr)		*99 %*		*80-120 %*			*"*					
4-Bromofluorobenzene (Surr)		*103 %*		*80-120 %*			*"*					
Duplicate (0020099-DUP2)		Prepared: 02/04/20 14:30 Analyzed: 02/05/20 09:15										
QC Source Sample: MW-22-0120 (A0B0009-11)												
EPA 8260C												

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020099 - EPA 5030B									Water			
Duplicate (0020099-DUP2)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 09:15								
QC Source Sample: MW-22-0120 (A0B0009-11)												
Benzene	**2.85**	---	2.00	ug/L	10	---	3.10	---	---	8	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	**233**	---	5.00	ug/L	10	---	247	---	---	6	30%	
Xylenes, total	**318**	---	15.0	ug/L	10	---	335	---	---	5	30%	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*113 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*101 %*		*80-120 %*			*"*				
Matrix Spike (0020099-MS1)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 10:36								
QC Source Sample: MW-30-0120 (A0B0009-13)												
EPA 8260C												
Benzene	22.0	---	0.200	ug/L	1	20.0	0.361	108	79 - 120%	---	---	
Toluene	27.8	---	1.00	ug/L	1	20.0	7.86	100	80 - 121%	---	---	
Ethylbenzene	22.4	---	0.500	ug/L	1	20.0	2.30	100	79 - 121%	---	---	
Xylenes, total	73.0	---	1.50	ug/L	1	60.0	10.6	104	79 - 121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*112 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*95 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020099 - EPA 5030B												**Water**
Blank (0020099-BLK1)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 00:13								
EPA 8260C												
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	1.00	2.00	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	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*115 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*119 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*103 %*		*80-120 %*			*"*				
LCS (0020099-BS1)		Prepared: 02/04/20 14:30		Analyzed: 02/04/20 23:19								
EPA 8260C												
Benzene	20.5	0.100	0.200	ug/L	1	20.0	---	102	80 - 120%	---	---	
Ethylbenzene	19.1	0.250	0.500	ug/L	1	20.0	---	96	80 - 120%	---	---	
n-Hexane	20.4	1.00	2.00	ug/L	1	20.0	---	102	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	19.1	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
Naphthalene	18.0	1.00	2.00	ug/L	1	20.0	---	90	80 - 120%	---	---	
Toluene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
Xylenes, total	56.1	0.750	1.50	ug/L	1	60.0	---	94	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		*Recovery:*	*112 %*	*Limits:*	*80-120 %*		*Dilution:*	*1x*				
Toluene-d8 (Surr)			*95 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*99 %*		*80-120 %*			*"*				
Duplicate (0020099-DUP1)		Prepared: 02/04/20 14:30		Analyzed: 02/05/20 05:39								
QC Source Sample: MW-12-0120 (A0B0009-04)												
EPA 8260C												
Benzene	ND	5.00	10.0	ug/L	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	12.5	25.0	ug/L	50	---	ND	---	---	---	30%	
n-Hexane	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	
Naphthalene	ND	50.0	100	ug/L	50	---	ND	---	---	---	30%	
Toluene	ND	25.0	50.0	ug/L	50	---	ND	---	---	---	30%	

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503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020099 - EPA 5030B												**Water**
Duplicate (0020099-DUP1)			Prepared: 02/04/20 14:30		Analyzed: 02/05/20 05:39							
QC Source Sample: MW-12-0120 (A0B0009-04)												
Xylenes, total	ND	37.5	75.0	ug/L	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 114 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*103 %*		*80-120 %*			*"*				
Duplicate (0020099-DUP2)			Prepared: 02/04/20 14:30		Analyzed: 02/05/20 09:15							
QC Source Sample: MW-22-0120 (A0B0009-11)												
EPA 8260C												
Benzene	**2.85**	1.00	2.00	ug/L	10	---	3.10	---	---	8	30%	
Ethylbenzene	**233**	2.50	5.00	ug/L	10	---	247	---	---	6	30%	
n-Hexane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	**130**	10.0	20.0	ug/L	10	---	130	---	---	0.2	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Xylenes, total	**318**	7.50	15.0	ug/L	10	---	335	---	---	5	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 113 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*99 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*101 %*		*80-120 %*			*"*				
Matrix Spike (0020099-MS1)			Prepared: 02/04/20 14:30		Analyzed: 02/05/20 10:36							
QC Source Sample: MW-30-0120 (A0B0009-13)												
EPA 8260C												
Benzene	22.0	0.100	0.200	ug/L	1	20.0	0.361	108	79 - 120%	---	---	
Ethylbenzene	22.4	0.250	0.500	ug/L	1	20.0	2.30	100	79 - 121%	---	---	
n-Hexane	37.2	1.00	2.00	ug/L	1	20.0	7.05	**151**	**48 - 143%**	---	---	Q-01
Methyl tert-butyl ether (MTBE)	24.2	0.500	1.00	ug/L	1	20.0	ND	121	71 - 124%	---	---	
Naphthalene	26.5	1.00	2.00	ug/L	1	20.0	4.82	108	61 - 128%	---	---	
Toluene	27.8	0.500	1.00	ug/L	1	20.0	7.86	100	80 - 121%	---	---	
Xylenes, total	73.0	0.750	1.50	ug/L	1	60.0	10.6	104	79 - 121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 112 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*95 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*94 %*		*80-120 %*			*"*				

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020099 - EPA 5030B							**Water**					

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SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020140 - EPA 5030B							**Water**					
Blank (0020140-BLK1)		Prepared: 02/05/20 12:00		Analyzed: 02/05/20 14:39								
EPA 8260C												
Benzene	ND	0.100	0.200	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	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
n-Hexane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	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	---	---	---	---	---	---	
Toluene	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	---	---	---	---	---	---	
Xylenes, total	ND	0.750	1.50	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 118 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*98 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*106 %*		*80-120 %*			*"*				
LCS (0020140-BS2)		Prepared: 02/05/20 12:00		Analyzed: 02/05/20 13:45								
EPA 8260C												
Benzene	21.4	0.100	0.200	ug/L	1	20.0	---	107	80 - 120%	---	---	
1,2-Dibromoethane (EDB)	21.8	0.250	0.500	ug/L	1	20.0	---	109	80 - 120%	---	---	
1,2-Dichloroethane (EDC)	18.9	0.250	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
Ethylbenzene	18.7	0.250	0.500	ug/L	1	20.0	---	94	80 - 120%	---	---	
n-Hexane	23.5	1.00	2.00	ug/L	1	20.0	---	117	80 - 120%	---	---	
Isopropylbenzene	18.9	0.500	1.00	ug/L	1	20.0	---	95	80 - 120%	---	---	
Methyl tert-butyl ether (MTBE)	19.7	0.500	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
Naphthalene	18.8	1.00	2.00	ug/L	1	20.0	---	94	80 - 120%	---	---	
Toluene	18.5	0.500	1.00	ug/L	1	20.0	---	92	80 - 120%	---	---	
1,2,4-Trimethylbenzene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80 - 120%	---	---	
1,3,5-Trimethylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80 - 120%	---	---	
Xylenes, total	55.2	0.750	1.50	ug/L	1	60.0	---	92	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 114 %*		*Limits: 80-120 %*			*Dilution: 1x*				
Toluene-d8 (Surr)			*94 %*		*80-120 %*			*"*				
4-Bromofluorobenzene (Surr)			*99 %*		*80-120 %*			*"*				

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EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020140 - EPA 5030B							**Water**					

Apex Laboratories

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Lisa Domenighini, Client Services Manager

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0020203 - EPA 5030B									Water			
Blank (0020203-BLK1)			Prepared: 02/06/20 14:33		Analyzed: 02/06/20 16:28							
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 91 %*		*Limits: 70-130 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*99 %*		*70-130 %*		*"*					
4-Bromofluorobenzene (Surr)			*98 %*		*70-130 %*		*"*					
LCS (0020203-BS1)			Prepared: 02/06/20 14:33		Analyzed: 02/06/20 16:00							
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	0.210	0.0100	0.0200	ug/L	1	0.200	---	105	80 - 120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 92 %*		*Limits: 70-130 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*99 %*		*70-130 %*		*"*					
4-Bromofluorobenzene (Surr)			*95 %*		*70-130 %*		*"*					
Duplicate (0020203-DUP1)			Prepared: 02/06/20 14:33		Analyzed: 02/06/20 18:43							
QC Source Sample: MW-09-0120 (A0B0009-03)												
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 91 %*		*Limits: 70-130 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*100 %*		*70-130 %*		*"*					
4-Bromofluorobenzene (Surr)			*99 %*		*70-130 %*		*"*					
Matrix Spike (0020203-MS1)			Prepared: 02/06/20 14:33		Analyzed: 02/06/20 17:22							
QC Source Sample: MW-06-0120 (A0B0009-01)												
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	0.159	0.0100	0.0200	ug/L	1	0.200	ND	79	77 - 121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)			*Recovery: 94 %*		*Limits: 70-130 %*		*Dilution: 1x*					
Toluene-d8 (Surr)			*101 %*		*70-130 %*		*"*					
4-Bromofluorobenzene (Surr)			*98 %*		*70-130 %*		*"*					

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Column Cleanup

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020114							
A0B0009-02	Water	NWTPH-Dx/SGC	01/29/20 14:35	02/05/20 06:57			1.01
A0B0009-04	Water	NWTPH-Dx/SGC	01/29/20 13:39	02/05/20 06:57			0.97
A0B0009-07	Water	NWTPH-Dx/SGC	01/30/20 10:31	02/05/20 06:57			1.00
A0B0009-11	Water	NWTPH-Dx/SGC	01/29/20 11:12	02/05/20 06:57			0.95
A0B0009-13	Water	NWTPH-Dx/SGC	01/29/20 14:35	02/05/20 12:48			1.08

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

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020099							
A0B0009-01	Water	NWTPH-Gx (MS)	01/30/20 09:30	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-02	Water	NWTPH-Gx (MS)	01/29/20 14:35	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-03	Water	NWTPH-Gx (MS)	01/30/20 12:18	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-05	Water	NWTPH-Gx (MS)	01/30/20 11:29	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-06	Water	NWTPH-Gx (MS)	01/30/20 13:24	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-07	Water	NWTPH-Gx (MS)	01/30/20 10:31	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-08	Water	NWTPH-Gx (MS)	01/30/20 08:46	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-09	Water	NWTPH-Gx (MS)	01/30/20 14:34	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-10	Water	NWTPH-Gx (MS)	01/30/20 15:38	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-11	Water	NWTPH-Gx (MS)	01/29/20 11:12	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-12	Water	NWTPH-Gx (MS)	01/29/20 12:27	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-13	Water	NWTPH-Gx (MS)	01/29/20 14:35	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-14	Water	NWTPH-Gx (MS)	01/30/20 14:45	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-15	Water	NWTPH-Gx (MS)	01/30/20 00:00	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
Batch: 0020140							
A0B0009-04RE1	Water	NWTPH-Gx (MS)	01/29/20 13:39	02/05/20 14:40	5mL/5mL	5mL/5mL	1.00

BTEX Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020099							
A0B0009-15	Water	EPA 8260C	01/30/20 00:00	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00

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Lisa Domenighini, Client Services Manager

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Apex Laboratories, LLC
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EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

SAMPLE PREPARATION INFORMATION

Selected Volatile Organic Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020099							
A0B0009-01	Water	EPA 8260C	01/30/20 09:30	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-02	Water	EPA 8260C	01/29/20 14:35	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-03	Water	EPA 8260C	01/30/20 12:18	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-05	Water	EPA 8260C	01/30/20 11:29	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-06	Water	EPA 8260C	01/30/20 13:24	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-07	Water	EPA 8260C	01/30/20 10:31	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-08	Water	EPA 8260C	01/30/20 08:46	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-09	Water	EPA 8260C	01/30/20 14:34	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-10	Water	EPA 8260C	01/30/20 15:38	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-11	Water	EPA 8260C	01/29/20 11:12	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-12	Water	EPA 8260C	01/29/20 12:27	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-13	Water	EPA 8260C	01/29/20 14:35	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
A0B0009-14	Water	EPA 8260C	01/30/20 14:45	02/04/20 14:30	5mL/5mL	5mL/5mL	1.00
Batch: 0020140							
A0B0009-04RE1	Water	EPA 8260C	01/29/20 13:39	02/05/20 14:40	5mL/5mL	5mL/5mL	1.00

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

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0020203							
A0B0009-01	Water	EPA 8260C SIM	01/30/20 09:30	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-02	Water	EPA 8260C SIM	01/29/20 14:35	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-03	Water	EPA 8260C SIM	01/30/20 12:18	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-04	Water	EPA 8260C SIM	01/29/20 13:39	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-05	Water	EPA 8260C SIM	01/30/20 11:29	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-06	Water	EPA 8260C SIM	01/30/20 13:24	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-07	Water	EPA 8260C SIM	01/30/20 10:31	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-08	Water	EPA 8260C SIM	01/30/20 08:46	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-09	Water	EPA 8260C SIM	01/30/20 14:34	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-10	Water	EPA 8260C SIM	01/30/20 15:38	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-12	Water	EPA 8260C SIM	01/29/20 12:27	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-13	Water	EPA 8260C SIM	01/29/20 14:35	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00
A0B0009-14	Water	EPA 8260C SIM	01/30/20 14:45	02/06/20 14:33	5mL/5mL	5mL/5mL	1.00

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

QUALIFIER DEFINITIONS

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

Apex Laboratories

F-18	Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

Apex Laboratories

Lisa A Domenighini

Lisa Domenighini, Client Services Manager

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503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

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

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
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Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

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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22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

LABORATORY ACCREDITATION INFORMATION

TNI 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

All reported analytes are included in Apex Laboratories' current ORELAP scope.

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

CHAIN OF CUSTODY

Lab # A0B0009 ~~A0B0~~ PM:2320 COC 1 of 2

Company: SLR Project Mgr: Mike Staton Project Name: SeaTac Development Site "SeaTac" PO# Project # 101.02207.00001

Address: 22118 20th Ave SE, Ste 6202, Bothell, WA Phone: (425) 402-8800 Fax: Email: mstaton@slrconsulting.com

Sampled by: Steven Losleben

Site Location: WA (circled) OR Other:

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx w/ SG	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z	n-hexane by 8260C	naphthalene by 8260C	EDB by 8260C SIM
1	MW-06-0120		1/30/20	0930	water	7			X				X										X	X	X
2	MW-07-0120		1/29/20	1435				X	X				X										X	X	X
3	MW-09-0120		1/30/20	1218					X				X										X	X	X
4	MW-12-0120		1/29/20	1339				X	X				X										X	X	X
5	MW-13-0120		1/30/20	1129					X				X										X	X	X
6	MW-17A-0120		1/30/20	1324					X				X										X	X	X
7	MW-18-0120		1/30/20	1031				X	X				X										X	X	X
8	MW-19-0120		1/30/20	0946					X				X										X	X	X
9	MW-20-0120		1/29/20	~~1536~~ 1434					X				X										X	X	X
10	MW-21-0120		1/30/20	1538					X				X										X	X	X

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other:

YES (circled) NO

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS: -TPH-Dx w/ SG cleanup

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 1/31/20	Signature: [signature] Date: 2/1/20	Signature: Date:	Signature: Date:
Printed Name: Steven Losleben Time: 1200	Printed Name: Nathan Potts Time: 11:00	Printed Name: Time:	Printed Name: Time:
Company: SLR	Company: Apex Labs	Company:	Company:

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	A0B0009 - 02 18 20 0552

APEX LABS — **CHAIN OF CUSTODY** — Lab # A0B0009 — COC 2 of 2

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

"SeaTac" PO#

Company: SLR | Project Mgr: Mike Staton | Project Name: SeaTac Development Site | Project # 101.02207.00001

Address: 22118 20th Ave SE, Ste G202, Bothell, WA | Phone: (425) 402-8800 | Fax: | Email:

Sampled by: Steven Losleben

Site Location: OR (WA) Other:

ANALYSIS REQUEST

#	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx w/ SG	NWTPH-Gx	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS TCLP	1200-COLS	1200-Z	n-hexane by 8260C	naphthalene by 8260C	EDB by 8260C SIM			
1	MW-22-0120		1/29/20	1112	water	7		X	X				X										X	X	X			
2	PORT-MW-B-0120		1/29/20	1227	↓	↓			X				X										X	X	X			
3	MW-30-0120		1/29/20	1435	↓	↓		X	X				X										X	X	X			
4	Equip-Blank-0120		1/30/20	1445	↓	↓			X				X															
5																												
6																												
7																												
8																												
9																												
10	Trip Blank								X				X															

Normal Turn Around Time (TAT) = 10 Business Days (YES) NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: ______

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 1/31/20	Signature: [signature] Date: 2/1/20	Signature: Date:	Signature: Date:
Printed Name: Steven Losleben Time: 1200	Printed Name: Nathan Potts Time: 11:00	Printed Name: Time:	Printed Name: Time:
Company: SLR	Company: Apex Labs	Company:	Company:

Apex Laboratories, LLC
6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

AMENDED REPORT

SLR Corporation-Bothell	Project: **Sea-Tac Development Site**	
22118 20th Ave SE	Project Number: **101.02207.00001**	**Report ID:**
Bothell, WA 98021	Project Manager: **Mike Staton**	**A0B0009 - 02 18 20 0552**

APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A0B0009

Project/Project #: SeaTac Development Site

Delivery Info:

Date/time received: 2/1/20 @ 11:00 By: NRP

Delivered by: Apex____Client____ESS____FedEx X UPS____Swift___Senvoy ___SDS___Other_____

Cooler Inspection Date/time inspected: 2/1/20 @ 11:05 By: NRP

Chain of Custody included? Yes X No ___ Custody seals? Yes_____ No X

Signed/dated by client? Yes X No ___

Signed/dated by Apex? Yes X No ___

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.9	2.3	3.3	4.1	5.1		
Received on ice? (Y/N)	Y	Y	Y	Y	Y		
Temp. blanks? (Y/N)	Y	Y	Y	Y	Y		
Ice type: (Gel/Real/Other)	Real	Real	Real	Real	Real		
Condition:	Good	Good	Good	Good	Good		

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

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 2-3-20 @ 12:06 By: TAG

All samples intact? Yes X No ___ Comments:

Bottle labels/COCs agree? Yes X No ___ Comments:

COC/container discrepancies form initiated? Yes ___ No ___ NA 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 X No___NA___ pH appropriate? Yes X No___NA___

Comments:

Additional information: TB #2209, 2148, 2233

Master # 3900 7849 0470

Labeled by: THG Witness: AM Cooler Inspected by: NRP See Project Contact Form: Y

Apex Laboratories

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.

Lisa A Domenighini

Lisa Domenighini, Client Services Manager