EVERETT
WASHINGTON

March 09, 2022

Sunny Becker, Site Manager
Washington State Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, WA 98008-5452

RE: Everett Landfill – 2021 Groundwater Performance Monitoring Report

Dear Sunny:

Floyd | Snider has completed the Groundwater Performance Monitoring annual report for the Everett Landfill site. This report satisfies the groundwater reporting requirements outlined in Section 4.5.3 of the Compliance Monitoring and Contingency Plan.

The attached letter report presents data and results from the two Groundwater Monitoring events for 2021. As the report describes, sampling was performed in January and July of 2021.

If you have any comments or questions on the attached, please don't hesitate to contact me. Alternatively, you can contact Megan King at Floyd & Snider, Inc.

Sincerely,

Randy Loveless, P.E.
Landfill Site Manager

Enclosure

Public Works

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FLOYD | SNIDER
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Memorandum

To: Randy Loveless, P.E., City of Everett Public Works

From: Kate Snider, Sabine Datum, and Brett Beaulieu, Floyd|Snider

Date: March 4, 2022

Project No: COEv DEVEL 2014

Re: **2021 Annual Groundwater Monitoring Report – Everett Landfill/Tire Fire Site, Everett WA**

This memorandum presents the 2021 sampling and analytical results of groundwater monitoring at the Everett Landfill/Tire Fire Site (Site), located in Everett, Washington (Figure 1). Sampling was performed in accordance with the Site Cleanup Action Plan (CAP) and Compliance Monitoring and Contingency Plan (CMCP; Floyd|Snider 2001) and the Site Sampling and Analysis Plan (HWA 2015). Groundwater has been monitored at the Site since 2001. Historical groundwater data collected by HWA Geosciences, Inc. (HWA) prior to 2021 are appended to this report as Attachment 1 (HWA 2020).

BACKGROUND

The Site is approximately 70 acres and located east of Interstate 5 and the western shore of the Snohomish River between 36th Street and 41st Street. Nine groundwater monitoring wells screened within the deep aquifer (MW-11R, MW-21R, MW-29R, MW-30, MW-31, MW-36, MW-37, MW-38, and MW-39R) are currently selected for compliance monitoring.

Per the CMCP, Evaluation Monitoring was performed for 3 years to supplement existing information regarding baseline conditions at the Site. During the current phase of performance monitoring (referred to as compliance monitoring in this report) seasonal and long-term changes in groundwater quality are being monitored. Compliance monitoring will be performed for at least 10 years. In addition, compliance monitoring will be reset or reinstated after the first significant pile installation activity and after additional pile installation in a zone identified for pile restrictions.

Groundwater in the shallow (leachate) aquifer is collected in the leachate collection system and conveyed off-site for treatment. A small section of the shallow aquifer is present east of the leachate collection system (and west of the East Ditch Figure 2). There is residual waste in a narrow strip of land between the leachate collection trench and the East Ditch; however, as documented in the 2001 CAP (Floyd|Snider 2001), groundwater from this narrow strip of land is

collected in the leachate collection system conveyed off-site, preventing groundwater discharge to surface water. This strip of land is the point of compliance for the shallow aquifer. Demonstration of hydraulic control is through monitoring groundwater levels at and near the Everett Landfill leachate collection system in the shallow aquifer.

The shallow aquifer point of compliance is located on the strip of land between the East Ditch and the leachate collection trench. Shallow aquifer compliance criteria are based on hydraulic control through operation of the leachate collection system. Hydraulic control is demonstrated through monitoring of water levels to show that hydraulic gradients are toward the leachate collection system, which would indicate that no shallow aquifer discharge to surface water is occurring. Although no water quality monitoring of the shallow aquifer is required while operating the leachate collection trench, future monitoring may occur if it needs to be demonstrated that the shallow aquifer has achieved the compliance criteria.

Because the shallow aquifer is discharging to the leachate collection system, groundwater quality compliance is only monitored in the deeper aquifer, per the requirements of the CMCP. Groundwater in the deep aquifer discharges to the Snohomish River. The deep aquifer is a potential future source of drinking water. The points of compliance for the deep aquifer are groundwater monitoring wells MW-36, MW-37, MW-38, and MW-39R, the groundwater monitoring wells closest to the Snohomish River.

Contaminants of concerns (COCs) and their cleanup levels (CULs) were initially presented in the CMCP. After completion of Evaluation Monitoring, the COCs were refined and limited to the following for compliance monitoring: metals (arsenic, iron, manganese, nickel, and zinc), chloride, and bis(2-ethylhexyl)phthalate (HWA 2004).

For additional background details refer to the CMCP (Floyd|Snider 2001) and the 2004 HWA Evaluation Monitoring Report (HWA 2004).

GROUNDWATER MONITORING EVENTS

Floyd|Snider completed two groundwater monitoring events in 2021. The sampling locations are depicted on Figure 2. Groundwater monitoring was performed using low-flow purging and sampling techniques, per the Floyd|Snider Standard Guideline Low-Flow Groundwater Sampling (Attachment 1).

January 2021 Sampling Event

On January 20 and 21, 2021, groundwater samples were collected from the following eight wells:

- Deep aquifer monitoring wells MW-11R, MW-21R, MW30, and MW-31
- Deep aquifer point of compliance wells MW-36, MW-37, MW-38, and MW-39R

A field duplicate was collected from well MW-37. Due to an error in Global Positioning System (GPS) coordinates, well MW-29R could not be located and was not sampled.

Water level measurements from the top of casing were collected from the sampled wells immediately prior to sampling at each well during the 2 days of sampling. Water level measurements are summarized in Table 1. During low-flow purging of the wells, field parameters (pH, temperature, dissolved oxygen, turbidity, and specific conductance) were recorded every 3 to 5 minutes for up to one hour or until parameters stabilized prior to sampling. The recorded field parameters are reported in Table 2. Low-flow pumping of the wells was maintained throughout the sampling process. After completion of sampling, groundwater samples were transported to the analytical laboratories and analyzed for the site-specific contaminants of interest (COIs; see Laboratory Analysis section below).

July 2021 Sampling Event

On July 7 and 8, 2021, groundwater samples were collected from the following wells:

- Deep aquifer monitoring wells MW-11R, MW-21R, MW-29R, MW-30, and MW-31
- Deep aquifer point of compliance wells MW-36, MW-37, MW-38, and MW-39R

A field duplicate sample was collected from MW-39R. One field blank quality control sample was also collected.

Depth to water measurements were collected from all sampled wells immediately prior to sampling at each well. Water level measurements were also collected from wells MW-22,[1] MW-24, MW-25, MW-26, and MW-46. Wells MW-33 and MW-34, which are no longer sampled, could not be located. Water level measurements are summarized in Table 1. During low-flow purging of the wells, field parameters (pH, temperature, dissolved oxygen, turbidity, and specific conductance) were recorded every 3 to 5 minutes for up to one hour or until parameters stabilized prior to sampling. Low-flow pumping of the wells was maintained throughout the sampling process. The recorded field parameters are reported in Table 2. After completion of sampling, groundwater samples were transported to the analytical laboratories and analyzed for the site-specific COIs (see Laboratory Analysis section below).

During the July 2021 event, Floyd|Snider also replaced the water pressure transducer in MW-46 with a new transducer Model Solinst 3001 Levelogger 5 and a barometric logger Model Solinst Barologger 5. The pressure transducer measures depth to water and temperature continuously while the barologger measures barometric pressure to correct for barometric pressure effects on water level data. Transducer data collected since the transducer change will be downloaded during the next sampling event in early 2022.

[1] MW-22, MW-24, MW-25, MW-26, and MW-46 are screened in the shallow aquifer and not sampled.

LABORATORY ANALYSIS

Groundwater samples collected in January and July 2021 were submitted to the City of Everett Environmental Laboratory for the following analyses:

- Dissolved metals (arsenic, iron, manganese, nickel, and zinc) by EPA Method 200.8
- Dissolved chloride by Standard Method SM4500-CL-E

Groundwater samples collected in January 2021 were also submitted to ALS Environmental (ALS) in Everett, Washington, and OnSite Environmental (OnSite) in Redmond, Washington. Groundwater samples collected in July 2021 were submitted to OnSite only. Samples submitted to ALS and/or OnSite were analyzed for the following:

- Bis(2-ethylhexyl)phthalate (BEHP) by EPA method 8270E

ANALYTICAL RESULTS

Table 2 summarizes the groundwater analytical results from the January and July 2021 sampling events. The laboratory reports are included in Attachment 2. Floyd|Snider performed data validation all analytical data with a USEPA Level 2B Data Quality Review (Summary Validation). The analytical data were validated in accordance with the USEPA National Functional Guidelines for Organic Superfund Methods Data Review (USEPA 2020a) and/or USEPA National Functional Guidelines for Inorganic Superfund Data Review (USEPA 2020b). No qualifiers were added to the analytical results based on the data quality review. Data were determined to be of acceptable quality for use as reported by the laboratory. A data validation summary is included in Attachment 3. Historical groundwater analytical results (excerpts from previous HWA annual reports) are included as Attachment 4.

Arsenic

Arsenic concentrations were detected in wells MW-21R, MW-30, MW-31, and MW-36. Concentrations in MW-21R were the highest with 14 micrograms per liter (µg/L) in January and 25 µg/L in July. The site-specific CUL for arsenic is 25 µg/L. Arsenic concentrations in MW-21R have exceeded the CUL previously (in July 2009), and have been fluctuating between non-detect (below 1 µg/L) and 24.6 µg/L since 2010. Arsenic concentrations in MW-21R over time are shown on the graph depicted in Figure 3.

Iron

Iron was detected in all wells during both sampling events. Concentrations detected ranged between 3,100 µg/L in well MW-38 and 44,000 µg/L in well MW-31. Both the January and July 2021 iron concentrations in MW-31 exceeded the iron CUL of 23,687 µg/L.

Iron concentrations in well MW-31 have exceeded the CUL since sampling began in 2001. Concentrations fluctuated from 2001 to 2013 between approximately 30,000 and 45,000 µg/L

and then increased sharply to over 70,000 µg/L between 2014 and 2015, as shown on the graph in Figure 4. There has been an overall downward trend since 2015 with seasonal fluctuations. Seasonally, lower concentrations are observed in the winter than in the summer sampling events.

Manganese

Manganese was detected in all wells during both sampling events but none of the concentrations exceeded the CUL of 4,040 µg/L. Concentrations ranged between 250 µg/L in MW-31 (measured in both January and July) and 1,700 µg/L in MW-37 (measured in January and in the duplicate sample in July).

Nickel

Nickel concentrations were detected in MW-31 and MW-36. Concentrations ranged between 0.80 µg/L and 3.3 µg/L, which are below 10 µg/L—the CUL for nickel. The detected concentrations were flagged by the laboratory as estimates.

Zinc

Zinc was not detected above the laboratory reporting limit in any of the samples collected in January or July.

Chloride

Chloride concentrations were detected in all wells sampled in January and July. Concentrations in MW-37 were detected at a concentration of 970 µg/L in January and at 1,200 µg/L in July. These concentrations exceed the CUL of 230 µg/L. Chloride concentrations in MW-37 have previously exceeded the CUL between 2005 and 2006 and since 2016. Sampling had been discontinued in this well between 2006 and 2015 due to the presumed influence of saline water from the Snohomish River into groundwater. When sampling resumed in 2015, concentrations increased sharply between 2015 and 2017, decreased between 2017 and the spring of 2020, but have since increased again. Seasonally, lower concentrations are observed in winter compared to collection events in the summer. Chloride concentrations in MW-37 over time are shown on the graph depicted in Figure 5.

BEHP

BEHP was not detected above the laboratory reporting limit in any of the groundwater samples collected in January or July 2021.

GROUNDWATER GRADIENT

Groundwater gradients in the deep aquifer have been monitored since 2001, per the requirements of the CMCP. Easterly flow toward the Snohomish River has been established and

documented during the past monitoring years, with the exception of the area between MW-31 and MW-37, as discussed below. Based on groundwater levels measured in 2021 and resulting elevations, groundwater in the deep aquifer flows to the east toward the Snohomish River, with a gradient of approximately 0.02 feet per foot (ft/ft). Groundwater elevations in January and July 2021 are shown on Figures 6 and 7.

Reverse (westerly) groundwater flow between MW-31 and MW-37 was observed in both January and July 2021 with a gradient of approximately 0.06 ft/ft. These gradients may not be permanent and are also strongly affected by tidal fluctuations in nearshore groundwater elevations from variation in the Snohomish River stage elevation. As shown in Table 1, seasonal groundwater elevations greatly fluctuated in the wells closest to the river. For example, groundwater levels in MW-37 in January 2021 were more than 9 feet higher than in July 2021. Significant differences were also measured in MW-36 with over 6 feet, and in MW-31 with over 4 feet difference. Tidal influences from the Snohomish River are partially responsible for these variations. Based on the United States Geological Survey (USGS) river gage readings for the Snohomish River at Snohomish,[2] Washington, in January 2021, daily tidal fluctuations accounted for up to 6 feet in river water level differences. In July 2021, daily tidal differences resulted in up to 11.5 feet of changes in river levels. Seasonally, lowest river levels fluctuated by about 3 feet in 2021 and high river levels fluctuated by approximately 10 feet in 2021. As a result, in addition to seasonal variations, the time of day at which water levels were measured in the wells explains the high variability in the water levels in the near shore wells.

Per the CMCP, hydraulic control of the shallow (leachate) aquifer is demonstrated through monitoring of water levels to show that hydraulic gradients are toward the leachate collection system. For this reason, groundwater levels at and near the Everett Landfill leachate collection system are monitored to evaluate hydraulic control of the shallow aquifer with review of the transducer data from well MW-46 (screened in the shallow aquifer) and level sensor data from wet well LS21. Water level and barometer readings collected hourly between January 1, 2021, and July 13, 2021, are presented on Figure 8. Data show that LS21 water elevations ranged between -2.2 and 1.6 feet. Readings greater and less than this range occurred during wet well maintenance activities or transducer connection interruptions. Figure 9 depicts LS21 and MW-46 water elevations during the month of January 2021 to show monthly fluctuations. Groundwater elevations in MW-46 during this time frame ranged from 7.92 to 11.61 feet. Based on the elevation data, groundwater elevations inside the wet well were 6.32 to 10.01 feet lower than groundwater elevations in MW-46. Given that the wet well groundwater elevations were below the shallow aquifer groundwater elevations, no discharge from the shallow aquifer to the Snohomish River occurred between January and July 2021, as expected. The shallow aquifer continues to be hydraulically controlled.

[2] According to the USGS, the Snohomish River gage datum is 9.86 feet below National Geodetic Vertical Datum of 1929.

SUMMARY

The 2021 groundwater analytical results are similar to results in previous monitoring years. Exceedances of the iron CUL were detected in MW-31 and exceedances of the chloride CUL were detected in MW-37. MW-37 is a point of compliance well, in which sampling was discontinued between 2006 and 2015 due to the presumed influence of saline water from the Snohomish River into groundwater. Chloride concentrations have been fluctuating in MW-37 since 2016 between 251 µg/L and 1,790 µg/L, exceeding the CUL. We continue to hold the opinion that this is likely due to influence of saline water from the Snohomish River. Arsenic was detected at the CUL in well MW-21R in July 2021. This well is located several hundred feet from the Snohomish River. MW-11R, the well down-gradient from MW-21R, does not exhibit arsenic concentrations greater than the laboratory reporting limit. Therefore, the arsenic concentration in MW-21R is not a concern at this time. No change in monitoring or other action is proposed as a result of these detections.

Floyd|Snider will continue to sample the nine wells selected for monitoring semiannually. Per the CMCP, the 10-year performance monitoring period reset in October 2020 after the first pile installation that penetrated the aquitard occurred.

REFERENCES

Floyd|Snider. 2001. Cleanup Action Plan and Compliance Monitoring and Contingency Plan.

HWA Geosciences, Inc. (HWA). 2020. 2020 Groundwater Performance Monitoring Report. Everett Landfill/Tire Fire Site. Everett, Washington. 30 December.

_____. 2015. Everett Landfill/Tire Fire Site 2015 Ground Water Sampling and Analysis Plan. Everett, Washington. 22 May.

_____. 2004. Evaluation Monitoring Report. July 2001–April 2004. Everett Landfill. 14 December.

U.S. Environmental Protection Agency (USEPA). 2020a. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

_____. 2020b. *National Functional Guidelines for Organic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

LIST OF ATTACHMENTS

Table 1 2021 Groundwater Elevations

Table 2 Summary of 2021 Groundwater Analytical Results

Figure 1	Site Vicinity Map
Figure 2	Groundwater Monitoring Well Locations
Figure 3	Arsenic Concentrations in MW-21R
Figure 4	Iron Concentrations in MW-31
Figure 5	Chloride Concentrations in MW-37
Figure 6	Groundwater Elevations January 2021
Figure 7	Groundwater Elevations July 2021
Figure 8	LS21 vs MW-46 Groundwater Elevations January through July 2021
Figure 9	LS21 vs MW-46 Groundwater Levels and Elevations January 2021
Attachment 1	Floyd|Snider Standard Guidelines
Attachment 2	Analytical Laboratory Reports
Attachment 3	Data Validation Summary
Attachment 4	Historical Groundwater Monitoring Analytical Results and Groundwater Elevations

Name: Brett Beaulieu
Date: 3/4/2022

Tables

Table 1
2021 Groundwater Elevations

Well ID	Depth of well screen (ft bgs) [1]	TOC Elevation (ft MSL)	TOC Elevation (ft NAVD 88)	January 2021 Sampling Event					July 2021 Sampling Event				
				Sample Date	Date and Time of water level measurement	Snohomish River Level Gage [2] at time of water level measurement	Depth to water (ft)	Groundwater elevation (ft NAVD 88)	Sample Date	Time of water level measurement	Snohomish River Level Gage [2] at time of water level measurement	Depth to water (ft)	Groundwater elevation (ft NAVD 88)
MW-11R	30–40	18.761	14.311	01/20/21	15:48	12.89	13.30	1.01	07/08/21	15:04	9.34	15.31	-1.00
MW-21R	30–40	43.81	39.36	01/21/21	9:00	14.64	11.93	27.43	07/08/21	8:47	10.29	12.55	26.81
MW-24*	unknown	14.012	9.562	--	--	--	--	NA	07/08/21	13:24	6.79	3.68	5.88
MW-25*	unknown	12.515	8.065	--	--	--	--	NA	07/08/21	12:57	6.93	3.97	4.10
MW-26*	unknown	12.183	7.733	--	--	--	--	NA	07/08/21	11:26	7.69	2.71	5.02
MW-29R	39–49	12.452	8.002	--	--	--	--	NA	07/08/21	10:53	8.07	6.82	1.18
MW-30	28–38	12.773	8.323	01/21/21	12:05	16.17	3.42	4.90	07/07/21	16:54	14.54	4.78	3.54
MW-31	18–28	14.031	9.581	01/21/21	16:11	12.69	9.08	0.50	07/08/21	13:33	6.81	13.75	-4.17
MW-36	21.5–31.5	15.37	10.92	01/20/21	14:10	14.60	4.41	6.51	07/07/21	10:28	8.06	10.57	0.35
MW-37	27.5–37.5	18.73	14.28	01/20/21	12:10	16.28	5.24	9.04	07/07/21	12:13	7.16	14.59	-0.31
MW-38	32–40.5	18.07	13.62	01/21/21	12:45	15.78	7.18	6.44	07/07/21	14:28	9.75	10.28	3.34
MW-39R	51–61	15.919	11.469	01/21/21	11:43	16.22	7.10	4.37	07/08/21	11:20	7.69	10.90	0.57
MW-46*	7–22	26.619	22.169	--	--	--	--	NA	07/07/21	16:28	13.90	14.25	7.92

Notes:
Wells not selected for performance monitoring.
-- Not measured.
* Screened in shallow aquifer.
1 Information obtained from historical boring logs.
2 Snohomish River Level Gage at Snohomish WA located at approximately 7 miles upstream from the site.

Abbreviations:
bgs Below ground surface
ft Feet
MSL Mean Sea Level
NA Not available
NAVD 88 North American Vertical Datum of 1988
TOC Top of casing

Table 2
Summary of 2021 Groundwater Analytical Results

				Location Name	MW-11R		MW-21R		MW-29R	MW-30		MW-31	
				Sample Name	MW-11R-012021	MW-11R-070821	MW-21R-012121	MW-21R-070821	MW-29R-070821	MW-30-012121	MW-30-070721	MW-31-012121	MW-31-070821
				Sample Date	1/20/2021	7/8/2021	1/21/2021	7/8/2021	7/8/2021	1/21/2021	7/7/2021	1/21/2021	7/8/2021
Analyte	**CAS No.**	**CUL**	**Unit**	**Analysis Method**									
Metals													
Arsenic	7440-38-2	25	µg/L	EPA 200.8	1.0 U	0.60 U	14	25	0.60 U	7.6	7.2	2.0 J	1.8 J
Iron	7439-89-6	23,687	µg/L	EPA 200.8	3,400	3,900	13,000	13,000	7,100	12,000	12,000	**44,000**	**43,000**
Manganese	7439-96-5	4,040	µg/L	EPA 200.8	720	790	1,800	2,200	440	530	550	1,200	1,200
Nickel	7440-02-0	10	µg/L	EPA 200.8	1.0 U	0.60 U	1.0 U	0.60 U	0.60 U	1.0 U	0.60 U	3.3 J	3.1
Zinc	7440-66-6	76.6	µg/L	EPA 200.8	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Conventionals													
Chloride	16887-00-6	230	mg/L	SM 4500-CL	13	12	12	8.1	12	14	16	150	150
SVOCs													
Bis(2-ethylhexyl)phthalate	117-81-7	10	µg/L	EPA 8270E	0.99 U	5.0 U	0.98 U	4.9 U	4.9 U	0.99 U	4.9 U	0.97 U	4.8 U
Bis(2-ethylhexyl)phthalate [(1)]	117-81-7	10	µg/L	EPA 8270E			2.0 U					2.0 U	
Field Parameters													
Dissolved Oxygen	--	--	mg/L	YSI METER	0.97	0.80	1.18	0.81	0.58	0.46	0.68	0.39	0.54
ORP	--	--	mV	YSI METER	-111	37.9	-92.5	6.0	51.9	211	4.5	238	67
pH	pH	--	pH	YSI METER	7.32	7.11	6.85	6.9	6.47	6.65	6.75	6.15	6.17
Specific Conductance	--	--	µS/cm	YSI METER	623	853	401	595	907	458	551	945	1,152
Temperature	--	--	°C	YSI METER	13.8	13.8	12.1	13.6	14	12.1	14.8	12.9	14.9
Turbidity	--	--	ntu	TURBM	10.82	16.7	6.09	10.69	10.39	3.13	0.96	3.39	6.58

Notes:

BOLD Result exceeds the CUL.

1 Sample was also sent to ALS Environmental Lab for comparison analysis.

Abbreviations:

°C	Degree Celsius
CAS	Chemical Abstracts Service
CUL	Cleanup Level
µg/L	Micrograms per liter
µS/cm	Microsiemens per centimeter
mg/L	Milligrams per liter
mV	Millivolts
ntu	Nephelometric turbidity unit
ORP	Oxygen-reduction potential
TURBM	Lamotte Turbidity Meter
YSI METER	YSI Water Quality Meter

Qualifiers:

J	Analyte is detected and the concentration is estimated.
U	Analyte is not detected at the associated reporting limit.

Table 2
Summary of 2021 Groundwater Analytical Results

				Location Name	MW-36		MW-37			MW-38		MW-39R			Field Blank
				Sample Name	MW-36-012021	MW-36-070721	MW-37-012021	MW-99-012021	MW-37-070721	MW-38-012121	MW-38-070721	MW-39R-012121	MW-39R-070821	Dup-1-070821	FB-1-070821
				Sample Date	1/20/2021	7/7/2021	1/20/2021	1/20/2021	7/7/2021	1/21/2021	7/7/2021	1/21/2021	7/8/2021	7/8/2021	7/8/2021
Analyte	**CAS No.**	**CUL**	**Unit**	**Analysis Method**											
Metals															
Arsenic	7440-38-2	25	µg/L	EPA 200.8	4.9	4.2	1.0 U	1.0 U	0.60 U	1.0 U	0.60 U	1.0 U	0.60 U	0.60 U	0.60 U
Iron	7439-89-6	23,687	µg/L	EPA 200.8	13,000	16,000	15,000	15,000	20,000	3,100	3,200	4,800	5,100	5,200	20 U
Manganese	7439-96-5	4,040	µg/L	EPA 200.8	1,100	560	1,600	1,700	1,700	270	280	250	250	250	0.60 U
Nickel	7440-02-0	10	µg/L	EPA 200.8	2.1 J	0.80 J	1.0 U	1.0 U	0.60 U	1.0 U	0.60 U	1.0 U	0.60 U	0.60 U	0.60 U
Zinc	7440-66-6	76.6	µg/L	EPA 200.8	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Conventionals															
Chloride	16887-00-6	230	mg/L	SM 4500-CL	44	82	**970**	**1,000**	**1,200**	12	14	7.2	7.1	7.1	0.30 U
SVOCs															
Bis(2-ethylhexyl)phthalate	117-81-7	10	µg/L	EPA 8270E	0.98 U	5.0 U	1.0 U	0.99 U	4.9 U	0.96 U	4.8 U	0.99 U	4.8 U	4.8 U	4.8 U
Bis(2-ethylhexyl)phthalate [(1)]	117-81-7	10	µg/L	EPA 8270E	2.0 U										
Conventionals															
Dissolved Oxygen	--	--	mg/L	YSI METER	0.98	0.54	1.19	1.19	0.59	0.45	0.60	1.14	1.53		
ORP	--	--	mV	YSI METER	-119	-6.2	-69.5	-69.5	3.5	233	57.2	-83.6	-113		
pH	pH	--	pH	YSI METER	6.89	6.61	6.56	6.56	6.49	6.73	6.71	6.97	6.93		
Specific Conductance	--	--	µS/cm	YSI METER	548	851	2,235	2,235	3,975	298	386	213	289		
Temperature	--	--	°C	YSI METER	11.3	12.2	11	11	12.3	11	11.9	11.8	13.3		
Turbidity	--	--	ntu	TURBM	6.41	5.36	34	34	2.93	0.45	0.67	3.97	1.77		

Notes:

BOLD Result exceeds the CUL.

1 Sample was also sent to ALS Environmental Lab for comparison analysis.

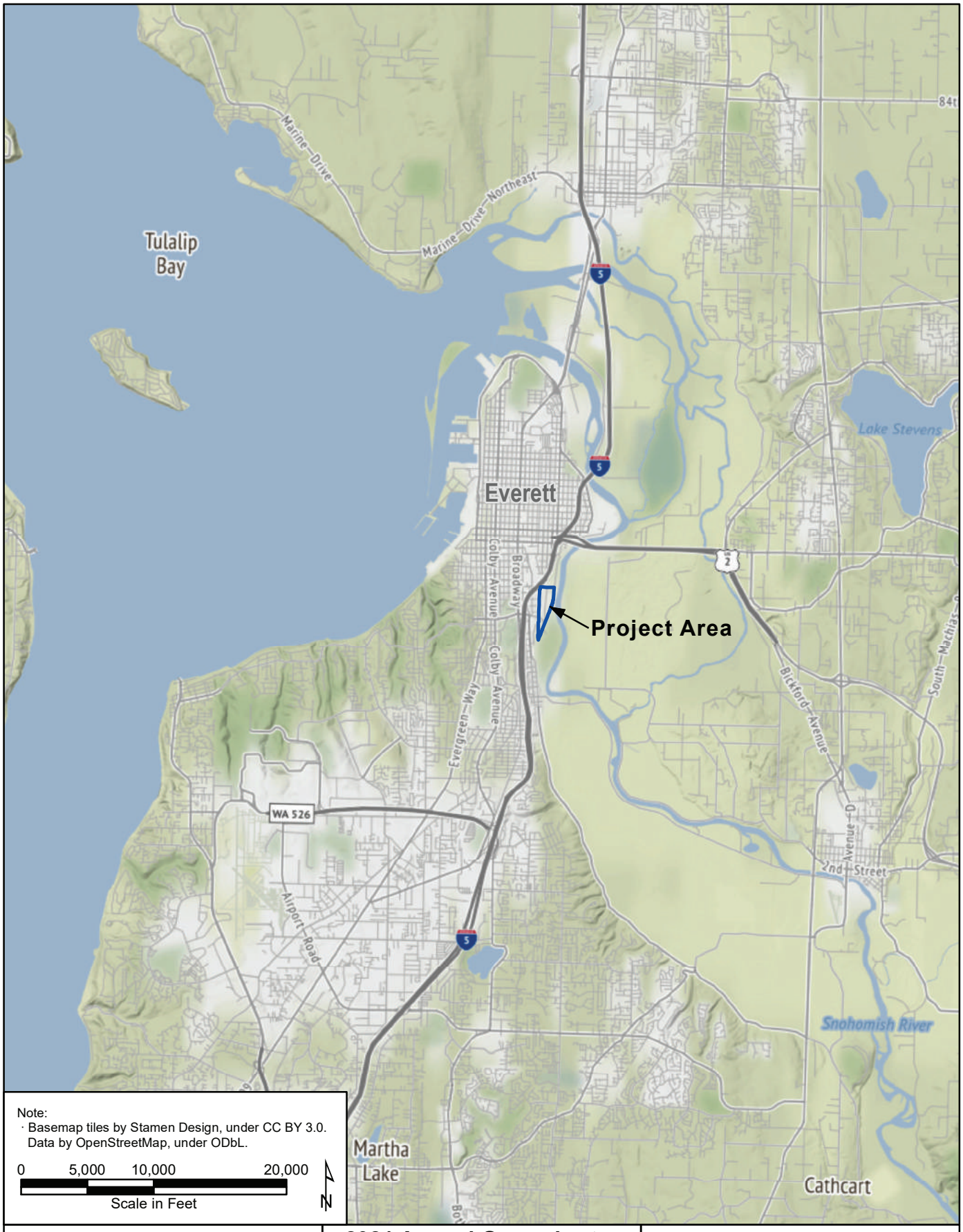
Abbreviations:

°C	Degree Celsius
CAS	Chemical Abstracts Service
CUL	Cleanup Level
µg/L	Micrograms per liter
µS/cm	Microsiemens per centimeter
mg/L	Milligrams per liter
mV	Millivolts
ntu	Nephelometric turbidity unit
ORP	Oxygen-reduction potential
TURBM	Lamotte Turbidity Meter
YSI METER	YSI Water Quality Meter

Qualifiers:

J	Analyte is detected and the concentration is estimated.
U	Analyte is not detected at the associated reporting limit.

Figures



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2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 1
Site Vicinity Map

I:\GIS\Projects\CoEV-Devel\MXD\2021 Annual Groundwater Monitoring Report\Figure 1 Site Vicinity Map.mxd
10/7/2021

MW-21R
MW-22
36TH ST
MW-11R
LS21 Wet Well
MW-36
Snohomish River
MW-24
MW-31
MW-37
MW-46
RIVERFRONT BLVD
MW-25
MW-30
MW-38
41ST ST
MW-29R
MW-26
MW-27
MW-39R

Legend

- Monitoring Well in the Deep Aquifer
- Monitoring Well in the Shallow Aquifer
- Lecheate Collection System
- Approximate Location of East Ditch
- Project Area
- Parcel Boundary

Notes:
· Parcel boundaries were obtained from the City of Everett, 2020.
· Orthoimagery obtained from Nearmap, 2021.

0 150 300 600
Scale in Feet

N

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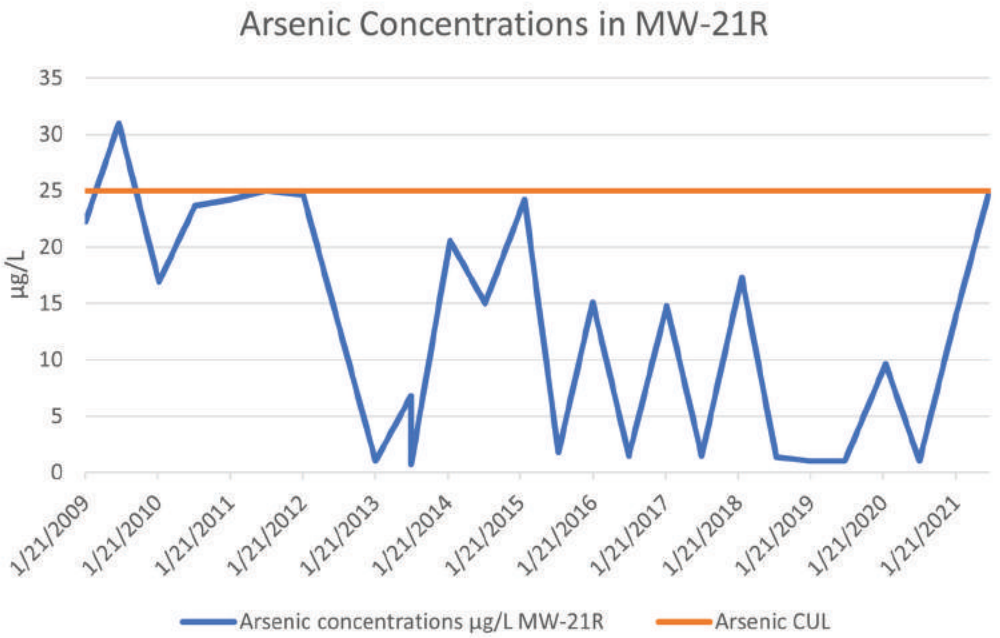
2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 2
Groundwater Monitoring Well Locations

I:\GIS\Projects\CoEV-Devel\MXD\2021 Annual Groundwater Monitoring Report\Figure 2 Groundwater Monitoring Well Locations.mxd
12/14/2021



Abbreviations: CUL = Cleanup level, µg/L = Micrograms per liter

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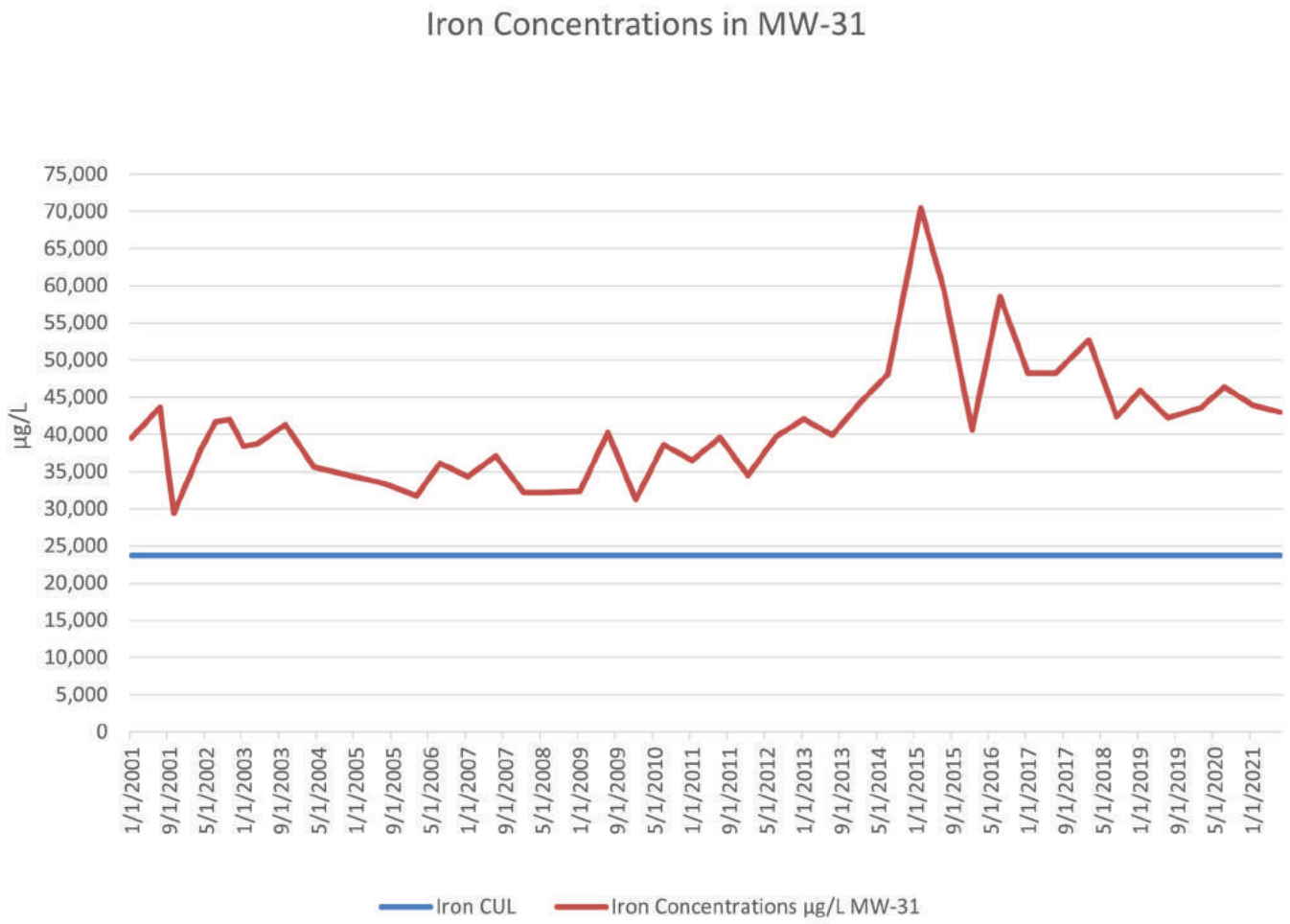
2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 3
Arsenic Concentrations in MW-21R

1/26/2022



Abbreviations: CUL = Cleanup level, µg/L = Micrograms per liter

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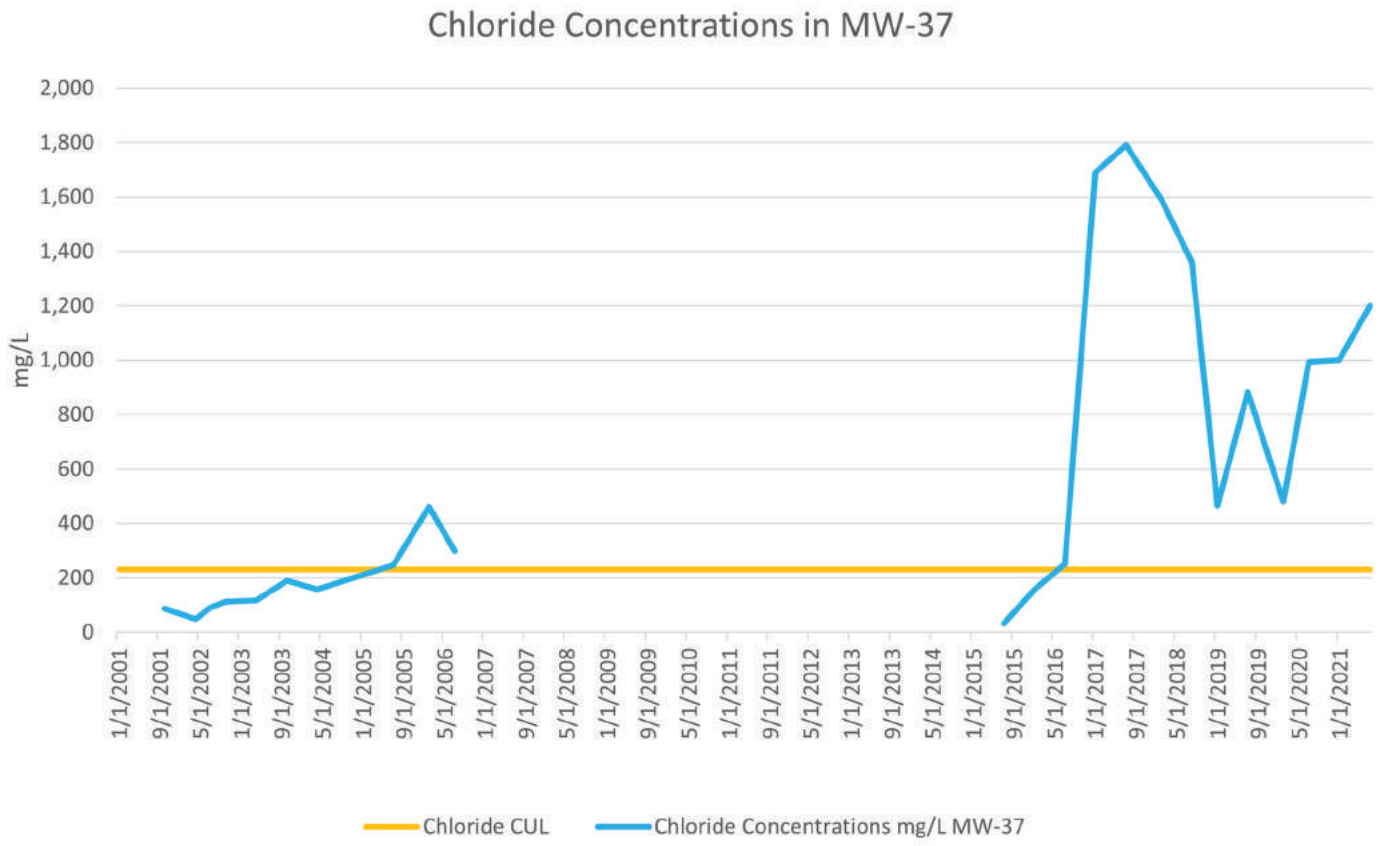
Everett Landfill/Tire Fire Site
Everett, WA

Figure 4
Iron Concentrations in MW-31

3/3/2022



Abbreviations: CUL = Cleanup level, mg/L = Milligrams per liter

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2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 5
Chloride Concentrations in MW-37

MW-21R
27.43
25
MW-22
36TH ST
1
MW-11R
1.01
LS21 Wet Well
MW-36
6.51
7
Snohomish River
MW-24
MW-31
0.50
1
2
5
MW-37
9.04
9
MW-46
RIVERFRONT BLVD
MW-30
4.90
MW-25
5
MW-38
6.44
6
41ST ST
MW-29R
NA
MW-26
MW-39R
4.37
MW-27
4

Legend

- Groundwater Elevation Contour (NAVD 88) (Dashed Where Inferred)
- Groundwater Flow Direction
- Monitoring Well in the Deep Aquifer
- Monitoring Well in the Shallow Aquifer
- 4.37 Groundwater Elevation (NAVD 88)
- Lecheate Collection System
- Approximate Location of East Ditch
- Project Area
- Parcel Boundary

Notes:
· Parcel boundaries were obtained from the City of Everett, 2020.
· Orthoimagery obtained from Nearmap, 2021.

0 150 300 600
Scale in Feet

N

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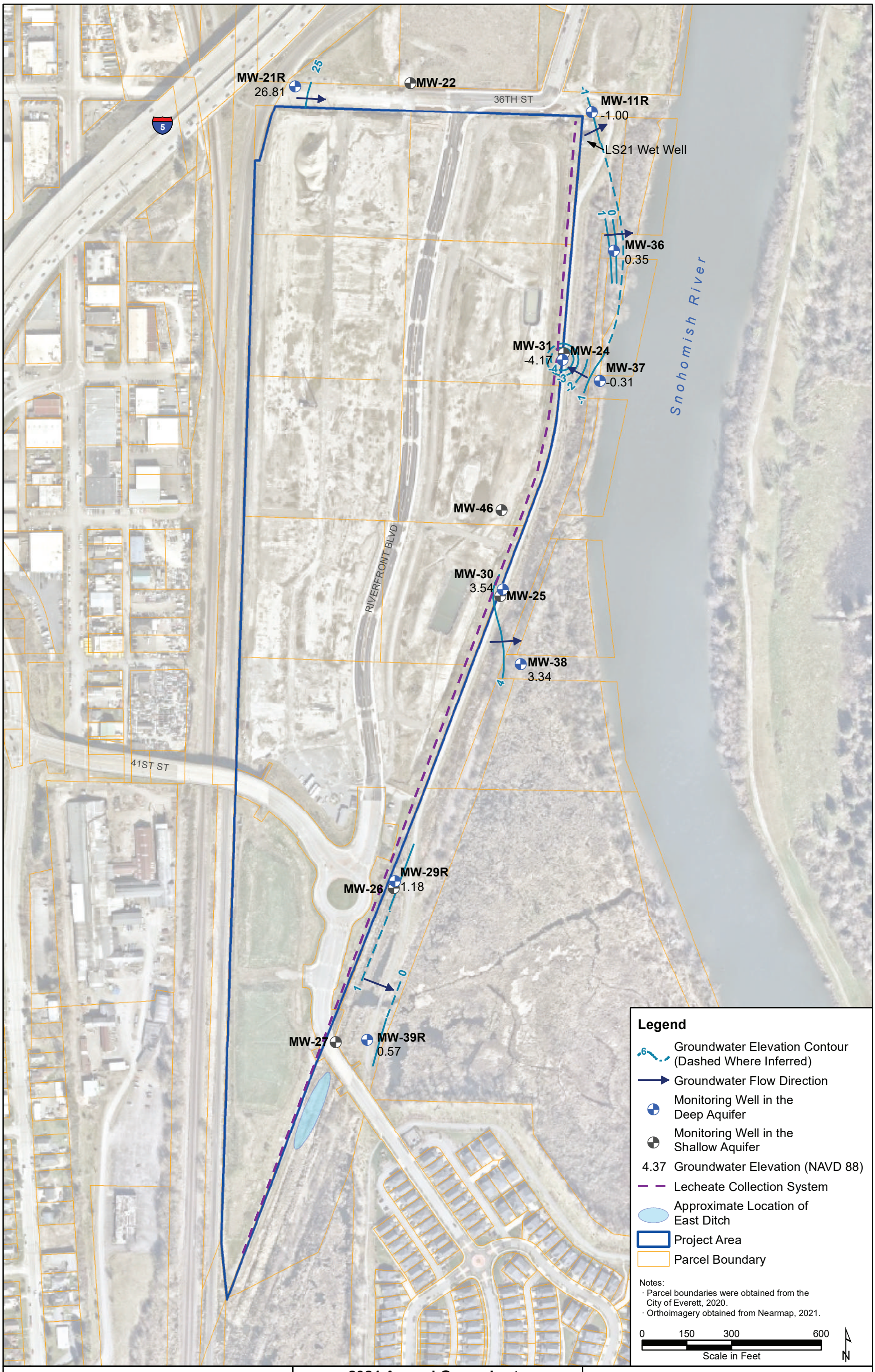
2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 6
Groundwater Elevations January 2021

I:\GIS\Projects\CoEV-Devel\MXD\2021 Annual Groundwater Monitoring Report\Figure 5 January 2021 Groundwater Elevations.mxd
12/16/2021



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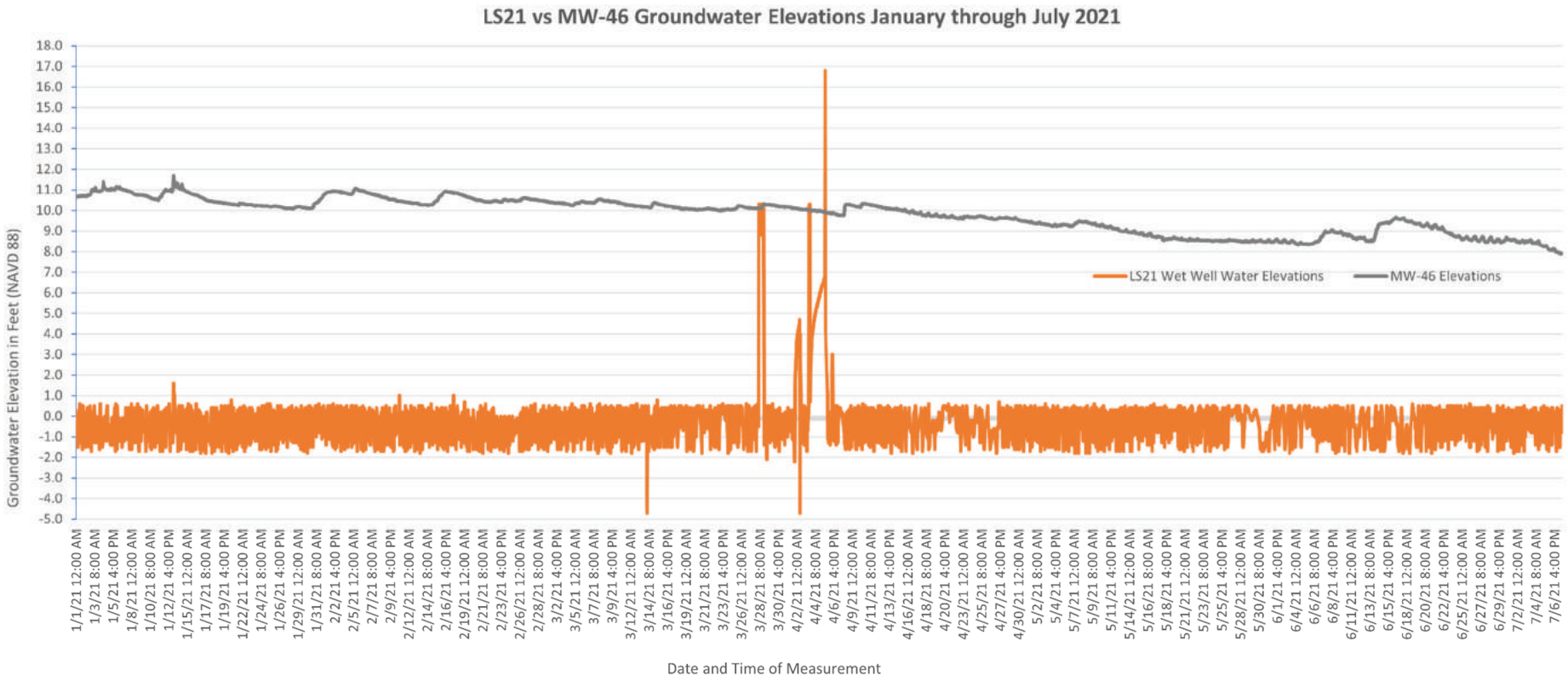
2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 7
Groundwater Elevations July 2021

I:\GIS\Projects\CoEV-Devel\MXD\2021 Annual Groundwater Monitoring Report\Figure 6 July 2021 Groundwater Elevations.mxd
12/16/2021



Abbreviation: NAVD 88 = North American Vertical Datum of 1988

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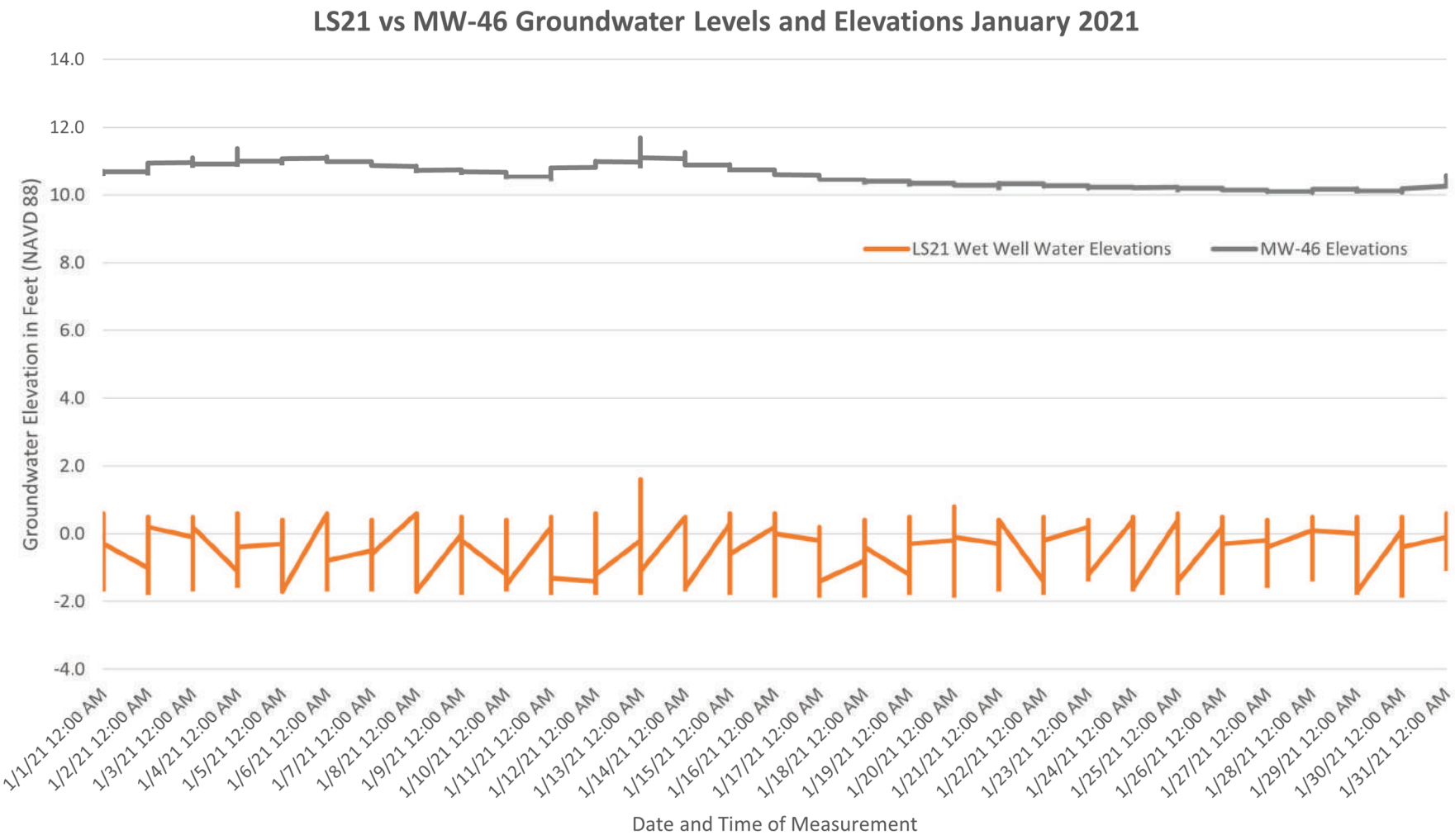
2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 8
LS21 vs MW-46 Groundwater Elevations January through July 2021



Abbreviation: NAVD 88 = North American Vertical Datum of 1988

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2021 Annual Groundwater Monitoring Report
Everett Landfill/Tire Fire Site
Everett, WA

Figure 9
LS21 vs MW-46 Groundwater Levels and Elevations January 2021

3/3/2022

Attachment 1
Floyd|Snider Standard Guidelines

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Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078 fax: 206.682.7867

F|S STANDARD GUIDELINE

Low-Flow Groundwater Sample Collection

DATE/LAST UPDATE: August 2015

These procedures should be considered standard guidelines and are intended to provide useful guidance when in the field, but are not intended to be step-by-step procedures, as some steps may not be applicable to all projects.

All field staff should be sufficiently trained in the standard guidelines for the sampling method they intend to use and should review and understand these procedures prior to going into the field. It is the responsibility of the field staff to review the standard guidelines with the field manager or project manager and identify any deviations from these guidelines prior to field work. When possible, the project-specific Sampling and Analysis Plan should contain any expected deviations and should be referenced in conjunction with these standard guidelines.

1.0 Scope and Purpose

This standard guideline provides details necessary for collecting representative groundwater samples from monitoring wells using low-flow methods. These guidelines are designed to meet or exceed guidelines set forth by the Washington State Department of Ecology (Ecology). Low-Flow sampling provides a method to minimize the volume of water that is purged and disposed from a monitoring well, and minimizes the impact that purging has on groundwater chemistry during sample collection.

2.0 Equipment and Supplies

Groundwater Sampling Equipment and Tools:

- For wells with head less than 25 feet:
  - Peristaltic pump with fully-charged internal battery or standalone battery and appropriate connectors

- For wells with head greater than 25 feet:
    - Bladder pump and controller, as well as an air cylinder, or air compressor (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)

      OR
    - Low-flow submersible pump and controller (with extension cord if near an electrical outlet; with battery and appropriate connectors or generator if not near an outlet)
- Multi-parameter water quality meter
- Water level meter
- Poly tubing
- Silicone tubing
- Filters (if field filtering)
- Tools for opening wells (1/2-inch, 9/16-inch, and 5/8-inch sockets, ratchet, screwdriver)
- Well keys
- Tube cutters, razor blade, or scissors
- 5-gallon buckets and clamp
- Paper towels
- Bailer or pump to drain well box if full of stormwater
- Hammer
- Alconox (or similar decontamination solution), deionized water, spray bottles
- Tape measure
- Trash bags

Lab Equipment:

- Sample jars/bottles
- Coolers
- Chain-of-Custody Forms
- Labels
- Ice
- Ziploc bags

Paperwork:

- Field notebook with site maps
- Table of well construction details and/or well logs, if available
- Sampling forms
- Purge water plan
- Rite-in-the-Rain pens, paper, and permanent markers
- Site-Specific Health and Safety Plan (HASP)
- Sampling and Analysis Plan (SAP) and/or Quality Assurance Project Plan (QAPP) (including tables of analytes and bottle types)

Personal Protective Equipment (PPE):

- Boots/waders
- Safety vest
- Safety glasses
- Rain gear
- Nitrile gloves
- Work gloves

3.0 Standard Procedures

Low-Flow groundwater sampling consists of purging groundwater within the well casing at a rate equal to or less than the flow rate of representative groundwater from the surrounding aquifer into the well screen. The flow rate will depend on the hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing drawdown within the monitoring well. Field parameters are monitored during purging and groundwater samples are collected after field parameters have stabilized. Deviations from these procedures should be approved by the Project Manager and fully documented.

3.1 CALIBRATION OF WATER QUALITY METERS

All multi-parameter water quality meters to be used will be calibrated prior to each sampling event. Calibration procedures are outlined in each instrument's specific user manual.

3.2 MONITORING, MAINTENANCE, AND SECURITY

Prior to sampling, depth to water and total depth measurements will be collected and recorded for accessible monitoring wells onsite (or an appropriate subset for larger sites). Check for an existing measuring point (notch or visible mark on top of casing). If a measuring point is not observed, a measuring point should be established on the north side of the casing. The conditions

of the well box and bolts will also be observed and deficiencies will be recorded on the sampling forms or logbook (i.e., missing or stripped bolt). The following should also be recorded:

- Condition of the well box, lid, bolts, locks, and gripper cap, if deficiencies
- Condition of gasket if deficient and if water is present in the well box
- Note any obstructions or kinks in the well casing
- Note any equipment in the well casing, such as transducers, bailers, or tubing
- Condition of general area surrounding the well, such as subsidence, potholes, or if the well is submerged within a puddle.

Replace any missing or stripped bolts, and redevelop wells if needed.

3.3 LOW-FLOW PURGING METHOD AND SAMPLING PROCEDURES

Groundwater samples will be collected using low-flow purging and sampling procedures consistent with Ecology guidelines and the U.S. Environmental Protection Agency (USEPA) standard operating procedures (USEPA 1996). The following describes the Low-Flow purging and sampling procedures for collecting groundwater samples using a peristaltic pump. If the water level is greater than 20 feet below ground surface (bgs), Grundfos or Geotech submersible pumps or bladder pumps can be used since their pumping rates can be adjusted to low-flow levels.

- Place the peristaltic pump and water quality equipment near the wellhead. Slowly lower new poly tubing down into the well casing approximately to the middle of the well screen. If the depth of the well screen is not known, lower the tubing to the bottom of the well, making sure that the tubing has not been caught on the slotted well casing, and then raise the tubing 3 to 5 feet off the bottom of the casing. Document the estimated depth of the tubing placement within the well. Connect the tubing to the peristaltic pump using new flex tubing and connect the discharge line to the flow-through cell of the water quality meter. The discharge line from the flow cell should be directed to a bucket to contain the purged water.
- If using a low-flow submersible pump, connect the pump head to dedicated or disposable tubing. If using a bladder pump, connect both the air intake and water discharge ports to decontaminated or disposable tubing, using the manufacturer's instructions to ensure a secure connection. Lower the pump with tubing into the well as described above and connect the water discharge tubing directly to the flow-through cell.
- Measure the depth to water to the nearest 0.01 foot with a decontaminated water level meter and record the information on a sampling form.
- Start pumping the well at a purge rate of 0.1 to 0.2 liters per minute and slowly increase the rate. Purge rate is adjusted using a speed control knob or arrows on peristaltic and low-flow submersible pumps. The purge rate for bladder pumps is controlled by the air compressor, which first pressurizes the pump chamber in order

to compress the flexible bladder and force water through the discharge line, and then vents the chamber in order to allow the bladder to refill with water.

  - A good rule of thumb is to pressurize to 10 psi + 0.5 psi/foot of tubing depth and begin with 4 discharge/refill cycles per minute; using greater air pressure and accelerating the pump cycles will increase the purge rate.

- Check the water level. If the water level is dropping, lower the purge rate. Maintain a steady flow with no or minimal drawdown (less than 0.33 feet according to USEPA 2002). Maintaining a drawdown of less than 0.33 feet may not be feasible depending on hydrogeological conditions. If possible, measure the discharge rate of the pump with a graduated cylinder or use a stopwatch when filling sampling jars (500 milliliters [mL] polyethylene or glass ambers) to estimate the rate. When purging water through a flow cell, the maximum flow rate for accurate water quality readings is about 0.5 liters per minute (L/minute).
- Monitor and record water quality parameters every three to five minutes after one tubing volume (including the volume of water in the flow cell) has been purged.
  - One foot of ¼-inch interior diameter tubing holds about 10 mL of water, and flow-through cells typically hold less than 200 mL of water; one volume should be purged after about 5 minutes at a flow rate of 0.1 L/minute.
- Water-quality indicator parameters that will be monitored and recorded during purging include:
  - pH
  - Specific conductivity
  - Dissolved oxygen
  - Temperature
  - Turbidity
  - Oxidation reduction potential (ORP)
- Purging will continue until temperature, pH, turbidity, and specific conductivity are approximately stable (when measurements are within 10 percent) for three consecutive readings, or 30 minutes have elapsed. Because these field parameters (especially dissolved oxygen and ORP) may not reach the stabilization criteria, collection of the groundwater sample will be based on the professional judgment of field personnel at the time of sampling.
- The water sample can be collected once the criteria above have been met.
- If drawdown in the well cannot be maintained at 0.33 feet or less, reduce the flow or turn off the pump for 15 minutes and allow for recovery. If the water quality parameters have stabilized, and if at least two tubing volumes and the flow cell volume have been purged, then sample collection can proceed when the water level has recovered and the pump is turned back on. This should be noted on the sampling form.

- To collect the water sample, maintain the same pumping rate. After the well has been purged and the sample bottles have been labeled, the groundwater sample will be collected by directly filling the laboratory-provided bottles from the pump discharge line prior to passing through the flow cell. All sample containers should be filled with minimum disturbance by allowing the water to flow down the inside of the bottle or vial. When collecting a volatile organic compound (VOC) sample, fill to the top to form a meniscus over the mouth of the vial prior to placing the cap to eliminate air bubbles. Be careful not to overflow preserved bottles/pre-cleaned Volatile Organic Analyte (VOA) vials.
- If sampling for filtered metals, collect these samples last and fit an in-line filter at the end of the discharge line. Take note of the flow direction arrow on the filter prior to fitting. A minimum of 0.5 to 1 liter of groundwater must pass through the filter prior to collecting the sample.
- Sample labels will clearly identify the project name, sampler's initials, sample location and unique sample id, analysis to be performed, date, and time. After collection, samples will be placed in a cooler maintained at a temperature of approximately 4 to 6 degrees Celsius (°C) using ice. Chain-of-Custody Forms will be completed. Upon transfer of the samples to the laboratory, the Chain-of-Custody Form will be signed by the persons transferring custody of the sample containers to document change in possession.
- When sample collection is complete at a designated location, remove and properly dispose of the non-dedicated tubing. In most cases, this waste is considered solid waste and can be disposed of as refuse. Close and lock the well.

4.0 Decontamination

All reusable equipment that comes into contact with groundwater should be decontaminated using the processes described in this section prior to moving to the next sampling location.

Water Level Meter: The water level indicator and tape will be decontaminated between sampling locations and at the end the day by spraying the entire length of tape that came in contact with groundwater with an Alconox (or similar)/clean water solution followed by a thorough rinse with distilled or deionized water.

Water Quality Sensors and Flow-Through Cell: Distilled water or deionized water will be used to rinse the water quality sensors and flow-through cell. No other decontamination procedures are recommended since they are sensitive equipment. After the sampling event, the water quality meters will be cleaned and maintained according to the specific manual.

Submersible Pump (if applicable: Decontaminating the pump requires running the pump in three progressively cleaner grades of water.

1. Fill a bucket with approximately 4 gallons or more to sufficiently cover the pump of an Alconox (or similar)/clean water solution. Place the pump and the length of the

power cord (if applicable) that was in contact with water into the bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.

2. Fill a second bucket containing approximately 4 gallons or more to sufficiently cover the pump of clean water. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.
3. Fill a third bucket with approximately 4 gallons or more to sufficiently cover the pump of distilled or deionized water. Place the pump and cord into this bucket and run the pump for approximately two minutes or until the volume of water in the bucket has been exhausted.

Bladder Pump: Clean the inside and outside of the pump body with an Alconox (or similar)/clean water solution, followed by a thorough rinse with distilled or deionized water. The outside of the air supply line that came in contact with groundwater may also be cleaned with Alconox (or similar) solution and re-used; bladders and water discharge lines must be replaced after each sample is collected.

5.0 Investigation-Derived Waste (IDW)

Unless otherwise specified in the project work plan, water generated during groundwater sampling activities will be contained, transported, disposed of in accordance with applicable laws, and stored in a designated area until transported off-site for disposal.

The approach to handling and disposal of these materials for a typical cleanup site is as follows. For IDW that is containerized, such as purge water, 55-gallon drums (or other smaller sized drums) approved by the Washington State Department of Transportation will be used for temporary storage pending profiling and disposal. Each container holding IDW will be sealed and labeled as to its contents (e.g., “purge water”), the dates on which the wastes were placed in the container, the owner’s name and contact information for the field person who generated the waste, and the site name.

IDW containerized within drums will be characterized relative to applicable waste criteria using data from the sampling locations whenever possible. Material that is designated for off-site disposal will be transported to an off-site facility permitted to accept the waste. Manifests will be used, as appropriate for disposal.

Disposable sampling materials and incidental trash such as paper towels and PPE used in sample processing will be placed in heavy-duty garbage bags or other appropriate containers and disposed of as trash in the municipal collection system.

6.0 Field Documentation

Groundwater sampling activities will be documented in field sampling forms and/or field notebooks, and Chain-of-Custody Forms. Information recorded will, at a minimum, include personnel present (including subcontractors or client representatives), purpose of field event, weather conditions, sample collection date and times, sample analytes, depths to water, water quality parameters, well box/lid conditions, amount of purged water generated, and any deviations from the SAP. Photographs of damaged well casings or well boxes should be taken.

7.0 References

USEPA. 1996. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, Revision 2. Region 1. July 30, 1996.

_____. 2002. Groundwater Sampling Guidelines for Superfund and CAR Project Managers. Office of Solid Waste and Emergency Response. EPA 542.S-02-001. May 2002.

Attachment 2
Analytical Laboratory Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 26, 2021

Megan King
Floyd & Snider
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project CoEv-Devel
Laboratory Reference No. 2101-210

Dear Megan:

Enclosed are the analytical results and associated quality control data for samples submitted on January 22, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

Case Narrative

Samples were collected on January 20 and 21, 2021 and received by the laboratory on January 22, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270E Analysis

Sample MW-99-012021 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-36-012021**					
Laboratory ID:	01-210-01					
bis(2-Ethylhexyl)phthalate	**ND**	0.98	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*34*	*10 - 80*				
Phenol-d6	*25*	*10 - 87*				
Nitrobenzene-d5	*63*	*33 - 105*				
2-Fluorobiphenyl	*56*	*41 - 105*				
2,4,6-Tribromophenol	*69*	*25 - 124*				
Terphenyl-d14	*60*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-37-012021**					
Laboratory ID:	01-210-02					
bis(2-Ethylhexyl)phthalate	**ND**	1.0	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*39*	*10 - 80*				
Phenol-d6	*31*	*10 - 87*				
Nitrobenzene-d5	*70*	*33 - 105*				
2-Fluorobiphenyl	*60*	*41 - 105*				
2,4,6-Tribromophenol	*79*	*25 - 124*				
Terphenyl-d14	*68*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-99-012021**					
Laboratory ID:	01-210-03					
bis(2-Ethylhexyl)phthalate	**ND**	0.99	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*22*	*10 - 80*				
Phenol-d6	*17*	*10 - 87*				
Nitrobenzene-d5	*42*	*33 - 105*				
2-Fluorobiphenyl	*39*	*41 - 105*				Q
2,4,6-Tribromophenol	*69*	*25 - 124*				
Terphenyl-d14	*61*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-11R-012021**					
Laboratory ID:	01-210-04					
bis(2-Ethylhexyl)phthalate	**ND**	0.99	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*38*	*10 - 80*				
Phenol-d6	*28*	*10 - 87*				
Nitrobenzene-d5	*71*	*33 - 105*				
2-Fluorobiphenyl	*62*	*41 - 105*				
2,4,6-Tribromophenol	*77*	*25 - 124*				
Terphenyl-d14	*67*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-21R-012121**					
Laboratory ID:	01-210-05					
bis(2-Ethylhexyl)phthalate	**ND**	0.98	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*37*	*10 - 80*				
Phenol-d6	*28*	*10 - 87*				
Nitrobenzene-d5	*69*	*33 - 105*				
2-Fluorobiphenyl	*61*	*41 - 105*				
2,4,6-Tribromophenol	*74*	*25 - 124*				
Terphenyl-d14	*64*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-30-012121**					
Laboratory ID:	01-210-06					
bis(2-Ethylhexyl)phthalate	**ND**	0.99	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*32*	*10 - 80*				
Phenol-d6	*24*	*10 - 87*				
Nitrobenzene-d5	*63*	*33 - 105*				
2-Fluorobiphenyl	*59*	*41 - 105*				
2,4,6-Tribromophenol	*76*	*25 - 124*				
Terphenyl-d14	*67*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39R-012121**					
Laboratory ID:	01-210-07					
bis(2-Ethylhexyl)phthalate	**ND**	0.99	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*34*	*10 - 80*				
Phenol-d6	*25*	*10 - 87*				
Nitrobenzene-d5	*67*	*33 - 105*				
2-Fluorobiphenyl	*56*	*41 - 105*				
2,4,6-Tribromophenol	*71*	*25 - 124*				
Terphenyl-d14	*64*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-38-012121**					
Laboratory ID:	01-210-08					
bis(2-Ethylhexyl)phthalate	**ND**	0.96	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*27*	*10 - 80*				
Phenol-d6	*21*	*10 - 87*				
Nitrobenzene-d5	*54*	*33 - 105*				
2-Fluorobiphenyl	*50*	*41 - 105*				
2,4,6-Tribromophenol	*69*	*25 - 124*				
Terphenyl-d14	*62*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-31-012121**					
Laboratory ID:	01-210-09					
bis(2-Ethylhexyl)phthalate	**ND**	0.97	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*30*	*10 - 80*				
Phenol-d6	*24*	*10 - 87*				
Nitrobenzene-d5	*58*	*33 - 105*				
2-Fluorobiphenyl	*58*	*41 - 105*				
2,4,6-Tribromophenol	*79*	*25 - 124*				
Terphenyl-d14	*66*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0125W1					
bis(2-Ethylhexyl)phthalate	**ND**	1.0	EPA 8270E	1-25-21	1-25-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*39*	*10 - 80*				
Phenol-d6	*29*	*10 - 87*				
Nitrobenzene-d5	*66*	*33 - 105*				
2-Fluorobiphenyl	*59*	*41 - 105*				
2,4,6-Tribromophenol	*77*	*25 - 124*				
Terphenyl-d14	*66*	*47 - 116*				

Date of Report: January 26, 2021
Samples Submitted: January 22, 2021
Laboratory Reference: 2101-210
Project: CoEv-Devel

SEMIVOLATILE ORGANICS EPA 8270E
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	01-210-07										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	**10.6**	**11.3**	40.5	40.1	ND	26	28	20 - 108	6	24	
2-Chlorophenol	**20.7**	**20.6**	40.5	40.1	ND	51	51	24 - 105	0	32	
1,4-Dichlorobenzene	**8.86**	**8.55**	20.3	20.1	ND	44	43	24 - 100	4	36	
n-Nitroso-di-n-propylamine	**12.8**	**13.8**	20.3	20.1	ND	63	69	25 - 133	8	30	
1,2,4-Trichlorobenzene	**9.07**	**9.42**	20.3	20.1	ND	45	47	34 - 105	4	34	
4-Chloro-3-methylphenol	**24.4**	**27.7**	40.5	40.1	ND	60	69	44 - 113	13	15	
Acenaphthene	**9.58**	**11.0**	20.3	20.1	ND	47	55	47 - 106	14	19	
4-Nitrophenol	**16.0**	**18.9**	40.5	40.1	ND	40	47	20 - 120	17	37	
2,4-Dinitrotoluene	**12.3**	**14.6**	20.3	20.1	ND	61	73	45 - 106	17	18	
Pentachlorophenol	**24.8**	**28.5**	40.5	40.1	ND	61	71	20 - 136	14	39	
Pyrene	**11.9**	**13.4**	20.3	20.1	ND	59	67	47 - 112	12	15	
Surrogate:											
2-Fluorophenol						*32*	*32*	*10 - 80*			
Phenol-d6						*23*	*24*	*10 - 87*			
Nitrobenzene-d5						*60*	*63*	*33 - 105*			
2-Fluorobiphenyl						*49*	*55*	*41 - 105*			
2,4,6-Tribromophenol						*63*	*73*	*25 - 124*			
Terphenyl-d14						*57*	*66*	*47 - 116*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 01-210

Company: Floyd Snider
Project Number:
Project Name: CoEv - Devel
Project Manager: Megan King
Sampled by: TS + RS

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	SVOC BIS (2-Ethylhexyl) Phthalate 8270				% Moisture
1	MW-36-012021	1.2021	15:10	GW	2																		X				
2	MW-37-012021	↓	13:10	↓	2																		X				
3	MW-99-012021		13:20		2																		X				
4	MW-11R-012021		16:45		2																		X				
5	MW-21R-012121	1.21.21	10:05		2																		X				
6	MW-30-012121	↓	12:55		2																		X				
7	MW-39R-012121		12:40		6																		X				
8	MW-38-012121		15:30		2																		X				
9	MW-31-012121	↓	17:00	↓	2																		X				

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		Floyd Snider	1.22.21	15:11	MW-39R-012121 is MS/MSD
Received		Alpha	1-22-21	3:11	
Relinquished		Alpha	1-22-21	3:50	
Received		COE	1/22/21	1550	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: CoEv - Devel

OnSite Project Number: 01-210

Initiated by: MV

Date Initiated: 1/22/21

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature:	2.2
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No		1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No		1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No		1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No		1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No		1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)		1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4	
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4	
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4	
3.4 Have the samples been correctly preserved?	Yes	No	(N/A)	1 2 3 4	
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4	
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4	
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4	
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4	
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4	

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 13, 2021

Kate Snider
Floyd & Snider
Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101

Re: Analytical Data for Project COEV-Devel
Laboratory Reference No. 2107-071

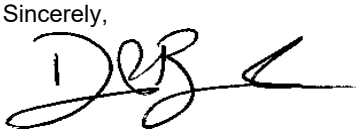
Dear Kate:

Enclosed are the analytical results and associated quality control data for samples submitted on July 9, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,



David Baumeister
Project Manager

Enclosures

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

Case Narrative

Samples were collected on July 7 and 8, 2021 and received by the laboratory on July 9, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-30-070721**					
Laboratory ID:	07-071-01					
bis(2-Ethylhexyl)phthalate	**ND**	4.9	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*42*	*10 - 82*				
Phenol-d6	*30*	*10 - 92*				
Nitrobenzene-d5	*66*	*32 - 105*				
2-Fluorobiphenyl	*66*	*38 - 105*				
2,4,6-Tribromophenol	*76*	*25 - 124*				
Terphenyl-d14	*73*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-36-070721**					
Laboratory ID:	07-071-02					
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*37*	*10 - 82*				
Phenol-d6	*28*	*10 - 92*				
Nitrobenzene-d5	*58*	*32 - 105*				
2-Fluorobiphenyl	*60*	*38 - 105*				
2,4,6-Tribromophenol	*78*	*25 - 124*				
Terphenyl-d14	*75*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-37-070721**					
Laboratory ID:	07-071-03					
bis(2-Ethylhexyl)phthalate	**ND**	4.9	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*40*	*10 - 82*				
Phenol-d6	*30*	*10 - 92*				
Nitrobenzene-d5	*64*	*32 - 105*				
2-Fluorobiphenyl	*63*	*38 - 105*				
2,4,6-Tribromophenol	*71*	*25 - 124*				
Terphenyl-d14	*68*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-38-070721**					
Laboratory ID:	07-071-04					
bis(2-Ethylhexyl)phthalate	**ND**	4.8	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*43*	*10 - 82*				
Phenol-d6	*32*	*10 - 92*				
Nitrobenzene-d5	*70*	*32 - 105*				
2-Fluorobiphenyl	*70*	*38 - 105*				
2,4,6-Tribromophenol	*74*	*25 - 124*				
Terphenyl-d14	*78*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-21R-070821**					
Laboratory ID:	07-071-05					
bis(2-Ethylhexyl)phthalate	**ND**	4.9	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*44*	*10 - 82*				
Phenol-d6	*32*	*10 - 92*				
Nitrobenzene-d5	*68*	*32 - 105*				
2-Fluorobiphenyl	*68*	*38 - 105*				
2,4,6-Tribromophenol	*73*	*25 - 124*				
Terphenyl-d14	*73*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-29R-070821**					
Laboratory ID:	07-071-06					
bis(2-Ethylhexyl)phthalate	**ND**	4.9	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*23*	*10 - 82*				
Phenol-d6	*18*	*10 - 92*				
Nitrobenzene-d5	*36*	*32 - 105*				
2-Fluorobiphenyl	*41*	*38 - 105*				
2,4,6-Tribromophenol	*55*	*25 - 124*				
Terphenyl-d14	*56*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-39R-070821**					
Laboratory ID:	07-071-07					
bis(2-Ethylhexyl)phthalate	**ND**	4.8	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*32*	*10 - 82*				
Phenol-d6	*24*	*10 - 92*				
Nitrobenzene-d5	*52*	*32 - 105*				
2-Fluorobiphenyl	*50*	*38 - 105*				
2,4,6-Tribromophenol	*62*	*25 - 124*				
Terphenyl-d14	*65*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-1-070821**					
Laboratory ID:	07-071-08					
bis(2-Ethylhexyl)phthalate	**ND**	4.8	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*24*	*10 - 82*				
Phenol-d6	*18*	*10 - 92*				
Nitrobenzene-d5	*40*	*32 - 105*				
2-Fluorobiphenyl	*43*	*38 - 105*				
2,4,6-Tribromophenol	*60*	*25 - 124*				
Terphenyl-d14	*63*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-31-070821**					
Laboratory ID:	07-071-09					
bis(2-Ethylhexyl)phthalate	**ND**	4.8	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*33*	*10 - 82*				
Phenol-d6	*26*	*10 - 92*				
Nitrobenzene-d5	*56*	*32 - 105*				
2-Fluorobiphenyl	*57*	*38 - 105*				
2,4,6-Tribromophenol	*73*	*25 - 124*				
Terphenyl-d14	*65*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FB-1-070821**					
Laboratory ID:	07-071-10					
bis(2-Ethylhexyl)phthalate	**ND**	4.8	EPA 8270E	7-12-21	7-13-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*39*	*10 - 82*				
Phenol-d6	*30*	*10 - 92*				
Nitrobenzene-d5	*58*	*32 - 105*				
2-Fluorobiphenyl	*63*	*38 - 105*				
2,4,6-Tribromophenol	*75*	*25 - 124*				
Terphenyl-d14	*74*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-11R-070821**					
Laboratory ID:	07-071-11					
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270E	7-12-21	7-13-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*34*	*10 - 82*				
Phenol-d6	*25*	*10 - 92*				
Nitrobenzene-d5	*54*	*32 - 105*				
2-Fluorobiphenyl	*55*	*38 - 105*				
2,4,6-Tribromophenol	*60*	*25 - 124*				
Terphenyl-d14	*59*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0712W1					
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270E	7-12-21	7-12-21	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*37*	*10 - 82*				
Phenol-d6	*30*	*10 - 92*				
Nitrobenzene-d5	*57*	*32 - 105*				
2-Fluorobiphenyl	*61*	*38 - 105*				
2,4,6-Tribromophenol	*70*	*25 - 124*				
Terphenyl-d14	*72*	*42 - 116*				

Date of Report: July 13, 2021
Samples Submitted: July 9, 2021
Laboratory Reference: 2107-071
Project: COEV-Devel

SEMIVOLATILE ORGANICS EPA 8270E
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	07-066-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	**88.2**	**75.8**	160	160	ND	55	47	20 - 108	15	24	
2-Chlorophenol	**84.1**	**69.4**	160	160	ND	53	43	24 - 105	19	32	
1,4-Dichlorobenzene	**37.9**	**30.9**	80.0	80.0	ND	47	39	24 - 100	20	36	
n-Nitroso-di-n-propylamine	**41.9**	**35.4**	80.0	80.0	ND	52	44	21 - 143	17	30	
1,2,4-Trichlorobenzene	**44.5**	**34.8**	80.0	80.0	ND	56	44	34 - 105	24	34	
4-Chloro-3-methylphenol	**101**	**98.7**	160	160	ND	63	62	44 - 113	2	21	
Acenaphthene	**43.9**	**42.1**	80.0	80.0	ND	55	53	47 - 106	4	19	
4-Nitrophenol	**118**	**121**	160	160	ND	74	76	20 - 127	3	37	
2,4-Dinitrotoluene	**47.3**	**46.0**	80.0	80.0	ND	59	58	45 - 106	3	19	
Pentachlorophenol	**153**	**152**	160	160	ND	96	95	20 - 136	1	39	
Pyrene	**48.2**	**47.6**	80.0	80.0	ND	60	60	47 - 112	1	23	
Surrogate:											
2-Fluorophenol						*51*	*42*	*10 - 82*			
Phenol-d6						*59*	*50*	*10 - 92*			
Nitrobenzene-d5						*64*	*50*	*32 - 105*			
2-Fluorobiphenyl						*69*	*64*	*38 - 105*			
2,4,6-Tribromophenol						*70*	*69*	*25 - 124*			
Terphenyl-d14						*69*	*68*	*42 - 116*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Floyd Snider
Project Number:
Project Name: COEV-Devel
Project Manager: Kate Snider
Sampled by: Sabine Datum & Tyler Scott

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 07-071

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BEHP* 8270 *8151 (2-ethylhexyl) phthalate				% Moisture
1	MW-30-070721	7.7.21	17:45	GW	2																		X				
2	MW-36-070721	↓	11:15	↓	2																		X				
3	MW-37-070721		13:00		2																		X				
4	MW-38-070721	↓	15:30	↓	2																		X				
5	MW-21R-070821	7.8.21	09:25	GW	2																		X				
6	MW-29R-070821		11:30		2																		X				
7	MW-39R-070821		12:25		2																		X				
8	Dup-1-070821		12:30		2																		X				
9	MW-31-070821		14:10	↓	2																		X				
10	FB-1-070821	↓	14:20	W	2																		X				

	Signature	Company	Date	Time
Relinquished	Tyler Scott	Floyd Snider	7.9.21	9:16
Received	# 17	Speedy Snider	7.9.21	9:16
Relinquished	# 17	Speedy Alpha	7.9.21	10:30
Received		COE	7/9/21	1030
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Please email results to:
Sabine.datum@floydsnider.com

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Floyd Snider
Project Number:
Project Name: COEV-Devel
Project Manager: Kate Snider
Sampled by: Sabine Datum & Tyler Scott

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 07-071

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BEHP* 8270 * bis(2-ethylhexyl) phthalate			% Moisture
11	MW-11R-070821	7.8.21	15:55	GW	2																		X			

	Signature	Company	Date	Time
Relinquished	Tyler Scott	Floyd Snider	7.9.21	9:16
Received	#17	Speedy Alpha	7:9:21	9:17
Relinquished	#17	Speedy Alpha	7.9.21	10:30
Received		ONE	7/9/21	103
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☒ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Sample/Cooler Receipt and Acceptance Checklist

Client: FLS

Client Project Name/Number: COEV - Devel

OnSite Project Number: 07-071

Initiated by: MV

Date Initiated: 7/9/21

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	(No)	N/A	1 2 3 4	
1.2 Were the custody seals intact?	Yes	No	(N/A)	1 2 3 4	
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	(N/A)	1 2 3 4	
1.4 Were the samples delivered on ice or blue ice?	(Yes)	No	N/A	1 2 3 4	
1.5 Were samples received between 0-6 degrees Celsius?	(Yes)	No	N/A	Temperature: 6.5	
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	(N/A)			
1.7 How were the samples delivered?	Client	(Courier)	UPS/FedEx	OSE Pickup	Other

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	(Yes)	No	1 2 3 4
2.2 Was the COC legible and written in permanent ink?	(Yes)	No	1 2 3 4
2.3 Have samples been relinquished and accepted by each custodian?	(Yes)	No	1 2 3 4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	(Yes)	No	1 2 3 4
2.5 Were all of the samples listed on the COC submitted?	(Yes)	No	1 2 3 4
2.6 Were any of the samples submitted omitted from the COC?	Yes	(No)	1 2 3 4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	(No)		1 2 3 4
3.2 Were any sample labels missing or illegible?	Yes	(No)		1 2 3 4
3.3 Have the correct containers been used for each analysis requested?	(Yes)	No		1 2 3 4
3.4 Have the samples been correctly preserved?	Yes	No	(N/A)	1 2 3 4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	Yes	No	(N/A)	1 2 3 4
3.6 Is there sufficient sample submitted to perform requested analyses?	(Yes)	No		1 2 3 4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	(No)		1 2 3 4
3.8 Was method 5035A used?	Yes	No	(N/A)	1 2 3 4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		(N/A)	1 2 3 4

Explain any discrepancies:

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT #
00057730

Client:	FLOYD SNIDER	Date Received:	01/22/21
Program:	Everett Landfill	Data Release:	SF
Contact:	MEGAN KING	Date Reported:	03/04/21

Department	Analysis	Units	DL	Method	PQL	BN24771 MW-36-012021 1/20/2021	BN24772 MW-37-012021 1/20/2021
METALS(D)	Dis. Arsenic	µg/L	1.0	200.8/6020B	4.0	**4.9**	**<1.0**
	Dis. Iron	µg/L	40	6020B	160	**12800**	**15000**
	Dis. Manganese	µg/L	1.0	200.8/6020B	4.0	**1130**	**1570**
	Dis. Nickel	µg/L	1.0	200.8/6020B	4.0	**2.1 J**	**<1.0**
	Dis. Zinc	µg/L	10	200.8/6020B	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.0	SM4500-CL-E	0.0	**44.3**	**967**

Department	Analysis	Units	DL	Method	PQL	BN24773 MW-99-012021 1/20/2021	BN24774 MW-11R-012021 1/20/2021
METALS(D)	Dis. Arsenic	µg/L	1.0	200.8/6020B	4.0	**<1.0**	**<1.0**
	Dis. Iron	µg/L	40	6020B	160	**14900**	**3390**
	Dis. Manganese	µg/L	1.0	200.8/6020B	4.0	**1670**	**722**
	Dis. Nickel	µg/L	1.0	200.8/6020B	4.0	**<1.0**	**<1.0**
	Dis. Zinc	µg/L	10	200.8/6020B	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.0	SM4500-CL-E	0.0	**995**	**13.2**

Department	Analysis	Units	DL	Method	PQL	BN24775 MW-21R-012121 1/21/2021	BN24776 MW-30-012121 1/21/2021
METALS(D)	Dis. Arsenic	µg/L	1.0	200.8/6020B	4.0	**13.5**	**7.6**
	Dis. Iron	µg/L	40	6020B	160	**12900**	**11800**
	Dis. Manganese	µg/L	1.0	200.8/6020B	4.0	**1770**	**534**
	Dis. Nickel	µg/L	1.0	200.8/6020B	4.0	**<1.0**	**<1.0**
	Dis. Zinc	µg/L	10	200.8/6020B	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.0	SM4500-CL-E	0.0	**12.2**	**13.9**

Department	Analysis	Units	DL	Method	PQL	BN24777 MW-39R-012121 1/21/2021	BN24779 MW-38-012121 1/21/2021
METALS(D)	Dis. Arsenic	µg/L	1.0	200.8/6020B	4.0	**<1.0**	**<1.0**
	Dis. Iron	µg/L	40	6020B	160	**4750**	**3090**
	Dis. Manganese	µg/L	1.0	200.8/6020B	4.0	**247**	**272**
	Dis. Nickel	µg/L	1.0	200.8/6020B	4.0	**<1.0**	**<1.0**
	Dis. Zinc	µg/L	10	200.8/6020B	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.0	SM4500-CL-E	0.0	**7.2**	**12.1**

Department	Analysis	Units	DL	Method	PQL	BN24780 MW-31-012121 1/21/2021
METALS(D)	Dis. Arsenic	µg/L	1.0	200.8/6020B	4.0	**2.0 J**
	Dis. Iron	µg/L	40	6020B	160	**43900**
	Dis. Manganese	µg/L	1.0	200.8/6020B	4.0	**1200**
	Dis. Nickel	µg/L	1.0	200.8/6020B	4.0	**3.3 J**
	Dis. Zinc	µg/L	10	200.8/6020B	40	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.0	SM4500-CL-E	0.0	**147**

DATA REPORTING QUALIFIERS

DL = Detection Limit
PQL = Practical Quantitation Limit (= 4xDL)
J = Analyte concentration less than PQL
SA = See Attached
ND = No Data
TNTC = Too numerous to count

When Dissolved Metals > Total Metals note possible filtering process contamintion
P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent
Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent
E = Estimated Value. Count from plates not within ideal range.
R = Sample was re-analyzed after holding time.

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

Phone: (425)257-8230 Fax: (425)257-8228
Sample Dropoff: 4027 4th St SE, Everett WA 98201
Mailing Address: 3200 Cedar St, Everett WA 98201

57730
PROJECT # COEV-Devel

ANALYSIS REQUEST CHAIN OF CUSTODY

Date: 01/22/2021

Client: Floyd Snider | Address: 600 Union St. #601 Seattle, WA 98101
Program: CoEV | Sample Site: Everett Landfill
Phone: 206.292.2078 | Collected By: Tyler Scott / Rachelle Shaw | Requested By:
Requested sample report date (If less than 30 days):
Purpose: X In Lab Contract ___ Outside Lab Contract

Sample Description:	LIMS ID # (Lab Use Only)	Sample Date	Sample Time	Comp Grab	Sample Matrix	Chloride SM4500-Cl-E	D/S Metals 200.8/6020B							
MW-36-012021	BN 24771	1.20.21	15:10	Grab	GW	X	X							
MW-37-012021	72	↓	13:10	↓	↓	X	X							
MW-99-012021	73		13:20			X	X							
MW-11R-012021	74	↓	16:45			X	X							
MW-21R-012121	75	1.21.21	10:05			X	X							
MW-30-012121	76	↓	12:55			X	X							
MW-39R-012121	77		12:40			X	X							
MW-39R-012121	78		12:40			X	X							
MW-38-012121	79		15:30			X	X							
MW-31-012121	80	↓	17:00	↓	↓	X	X							

Cooler w/Ice? (Y) / N | Rec Temp: °C | –INDICATE: LAB PERFORMING ANALYSIS / # OF CONTAINERS–

CHAIN OF CUSTODY

*Relinquished: Tyler Scott	Received:	Date: 1/22/21	Time: 12:55
*Relinquished:	Received:	Date:	Time:
*Relinquished:	Received:	Date:	Time:

COMMENTS: * All metals bottles have been field filtered. (0.45 micron)
* MW-39R is MS/MSD Sample.
* ~~Please send scan of COC to tyler.scott@floydsnider.com~~
EMAIL: megan.king@floydsnider.com

**Because the City of Everett Environmental Laboratory is a public agency, data, test results, reports and other documents are public records and therefore subject to disclosure to third parties upon their request pursuant to RCW Chap. 42.17.*

CITY OF EVERETT
ENVIRONMENTAL LABORATORY
Phone: (425)257-8230 Fax: (425)257-8228
Sample Dropoff: 4027 4th St SE, Everett WA 98201
Mailing Address: 3200 Cedar St, Everett WA 98201

PROJECT # 00057730

QC Report

Client: Floyd Snider

Batch: N-CL-DIS-46938 **Dis. Chloride**	Result	MDL	Units	% Rec	%Rec Limits	RPD %	RPD % Limit	Comments
METHOD BLANK	<0.3	0.3	mg/L					U
LABORATORY FORTIFIED BLANK	9.7	0.3	mg/L	97.4	90-110			
CALIBRATION CHECK	5.2	0.3	mg/L	104.2	90-110			
DUP	7.3	0.3	mg/L			1.1	20	
MATRIX SPIKE - BN24777	17.6	0.3	mg/L	103.4	90-110			
MATRIX SPIKE DUP - BN24777	17.8	0.3	mg/L			1.3	20	
LABORATORY CONTROL STANDARD	19.8	0.3	mg/L	102.5	90-110			

Batch: ICPMS-D-I-46954 **Method Blank**	Result	MDL	Units	% Rec	%Rec Limits	RPD %	RPD % Limit	Comments
Dis. Arsenic	<0.5	0.5	µg/L					U
Dis. Iron	<20	20	µg/L					U
Dis. Manganese	<0.5	0.5	µg/L					U
Dis. Nickel	<0.5	0.5	µg/L					U
Dis. Zinc	<5	5	µg/L					U
Laboratory Fortified Blank								
Dis. Arsenic	49.7	0.5	µg/L	99.3	85-115			
Dis. Iron	5030	20	µg/L	100.6	85-115			
Dis. Manganese	48.9	0.5	µg/L	97.8	85-115			
Dis. Nickel	49.4	0.5	µg/L	98.8	85-115			
Dis. Zinc	49	5	µg/L	98.9	85-115			
Calibration Check								
Dis. Arsenic	49.5	0.5	µg/L	99.1	90-110			
Dis. Iron	2020	20	µg/L	101.1	90-110			
Dis. Manganese	49.6	0.5	µg/L	99.3	90-110			
Dis. Nickel	50.7	0.5	µg/L	101.3	90-110			
Dis. Zinc	51	5	µg/L	101	90-110			
Matrix Spike - BN24777								
Dis. Arsenic	98.2	1	µg/L	98	75-125			
Dis. Iron	14600	40	µg/L	98.1	75-125			
Dis. Manganese	342	1	µg/L	94.3	75-125			
Dis. Nickel	96.0	1	µg/L	95.8	75-125			
Dis. Zinc	96.5	10	µg/L	96.5	75-125			
Matrix Spike Dup - BN24777								
Dis. Arsenic	99.6	1	µg/L			1.4	20	
Dis. Iron	14900	40	µg/L			2.2	20	
Dis. Manganese	342	1	µg/L			0.1	20	
Dis. Nickel	96.8	1	µg/L			0.9	20	
Dis. Zinc	99	10	µg/L			2.9	20	
Laboratory Control Standard								
Dis. Arsenic	36.4	0.5	µg/L	99.9	80-120			
Dis. Iron	1660	20	µg/L	104.8	80-120			
Dis. Manganese	606	0.5	µg/L	103.1	80-120			
Dis. Nickel	419	0.5	µg/L	103.1	80-120			
Dis. Zinc	1090	5	µg/L	103.1	80-120			

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT #
00058826

Client:	FLOYD SNIDER	Date Received:	07/08/21
Program:	Everett Landfill	Data Release:	CM
Contact:	SABINE DATUM	Date Reported:	08/16/21

Department	Analysis	Units	DL	Method	PQL	BN40938 MW-30-070721 07/07/21	BN40939 MW-36-070721 07/07/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**7.2**	**4.2**
	Dis. Iron	µg/L	20	200.8	80	**11500**	**16000**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**547**	**559**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**<0.6**	**0.8 J**
	Dis. Zinc	µg/L	10	200.8	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.6	SM4500-CL-E	2.4	**15.7**	
			1.5	SM4500-CL-E	6.0		**82.0**

Department	Analysis	Units	DL	Method	PQL	BN40940 MW-37-070721 07/07/21	BN40941 MW-38-070721 07/07/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**<0.6**	**<0.6**
	Dis. Iron	µg/L	20	200.8	80	**20200**	**3150**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**1690**	**283**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**<0.6**	**<0.6**
	Dis. Zinc	µg/L	10	200.8	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2		**14.3**
			15	SM4500-CL-E	60	**1180**	

Department	Analysis	Units	DL	Method	PQL	BN40942 MW-21R-070821 07/08/21	BN40943 MW-29R-070821 07/08/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**24.6**	**<0.6**
	Dis. Iron	µg/L	20	200.8	80	**12900**	**7050**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**2210**	**442**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**<0.6**	**<0.6**
	Dis. Zinc	µg/L	10	200.8	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	**8.1**	**11.5**

Department	Analysis	Units	DL	Method	PQL	BN40944 MW-39R-070821 07/08/21	BN40945 DUP-1-070821 07/08/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**<0.6**	**<0.6**
	Dis. Iron	µg/L	20	200.8	80	**5110**	**5150**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**250**	**247**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**<0.6**	**<0.6**
	Dis. Zinc	µg/L	10	200.8	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	**7.1**	**7.1**

DATA REPORTING QUALIFIERS

DL = Detection Limit
PQL = Practical Quantitation Limit (= 4xDL)
J = Analyte concentration less than PQL
SA = See Attached
ND = No Data
TNTC = Too numerous to count
When Dissolved Metals > Total Metals note possible filtering process contamintion
P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent
Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent
E = Estimated Value. Count from plates not within ideal range.
R = Sample was re-analyzed after holding time.
PHT = Analyzed past hold time

CITY OF EVERETT
ENVIRONMENTAL LABORATORY

PROJECT #
00058826

Client:	FLOYD SNIDER	Date Received:	07/08/21
Program:	Everett Landfill	Data Release:	CM
Contact:	SABINE DATUM	Date Reported:	08/16/21

Department	Analysis	Units	DL	Method	PQL	BN40946 MW-31-070821 07/08/21	BN40947 FB-1-070821 07/08/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**1.8 J**	**<0.6**
	Dis. Iron	µg/L	20	200.8	80	**43300**	**<20**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**1230**	**<0.6**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**3.1**	**<0.6**
	Dis. Zinc	µg/L	10	200.8	40	**<10**	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2		**<0.3**
			3.0	SM4500-CL-E	12.0	**145**	

Department	Analysis	Units	DL	Method	PQL	BN40948 MW-11R-070821 07/08/21
METALS(D)	Dis. Arsenic	µg/L	0.6	200.8	2.4	**<0.6**
	Dis. Iron	µg/L	20	200.8	80	**3900**
	Dis. Manganese	µg/L	0.6	200.8	2.4	**791**
	Dis. Nickel	µg/L	0.6	200.8	2.4	**<0.6**
	Dis. Zinc	µg/L	10	200.8	40	**<10**
NUTRIENTS	Dis. Chloride	mg/L	0.3	SM4500-CL-E	1.2	**12.3**

DATA REPORTING QUALIFIERS

DL = Detection Limit
PQL = Practical Quantitation Limit (= 4xDL)
J = Analyte concentration less than PQL
SA = See Attached
ND = No Data
TNTC = Too numerous to count

When Dissolved Metals > Total Metals note possible filtering process contamintion
P/A (used for Total Coliform results) P= Coliforms present, A = Coliforms absent
Y/N (used for E. Coli Results) Y= E. Coli present, N=E. Coli absent
E = Estimated Value. Count from plates not within ideal range.
R = Sample was re-analyzed after holding time.
PHT = Analyzed past hold time

CITY OF EVERETT
ENVIRONMENTAL LABORATORY
3200 CEDAR STREET; EVERETT WA 98201
Phone: (425)257-8230 Fax: (425)257-8228

ANALYSIS REQUEST
CHAIN OF CUSTODY

PROJECT # COEV DEVEL 58826

Date: 7-7-2021

Client: Floyd Snider		**Address:** 601 UNION ST # 600 SEATTLE WA 98101
Program:	**Sample Site:** COEV - Devel	
Phone: 206-854-5203	**Collected By:** S. Datum + T. Scott	**Requested By:** SABINE DATUM

Requested sample report date (If less than 30 days): _____

Purpose:
___ In Lab Contract ___ Outside Lab Contract

Sample Description:	LIMS ID # (Lab Use Only)	Sample Date	Sample Time	Comp Grab	Sample Matrix	Analyses Requested: Dissolved Metals *	Analyses Requested: Dissolved Chloride
MW-30-070721	BN 40938	7-7-21	17:45		GW	X	X
MW-36-070721	939	"	11:15		"	"	"
MW-37-070721	940	"	13:00		"	"	"
MW-38-070721	941	↓	15:30		↓	"	"
MW-21R-070821	942	7.8.21	9:25		GW	"	"
MW-29R-070821	943	"	11:30		"	"	"
MW-39R-070821	944	"	12:25		"	"	"
DUP-1-070821	945	"	12:30		"	"	"
MW-31-070821	946	"	14:10		"	"	"
FB-1-070821	947	"	14:20		W	"	"
MW-11R-070821	948	↓	15:55		GW	"	"
	2						

Cooler? Y / N Cooler Temp: °C --INDICATE: LAB PERFORMING ANALYSIS / # OF CONTAINERS--

CHAIN OF CUSTODY

*Relinquished: [signature]	Received: [signature]	Date: 7-8-21	Time: 1650
*Relinquished:	Received:	Date:	Time:
*Relinquished:	Received:	Date:	Time:
*Relinquished:	Received:	Date:	Time:

COMMENTS:
* Zinc, nickel, iron, manganese, arsenic
Sabine.datum@floydsnider.com

Because the City of Everett Environmental Laboratory is a public agency, data, test results, reports and other documents are public records and therefore subject to disclosure to third parties upon their request pursuant to RCW Chap. 42.17.

CITY OF EVERETT
ENVIRONMENTAL LABORATORY
Phone: (425)257-8230 Fax: (425)257-8228
Sample Dropoff: 4027 4th St SE, Everett WA 98201
Mailing Address: 3200 Cedar St, Everett WA 98201

PROJECT # 00058826

QC Report

Client: Floyd Snider

Batch: N-CL-DIS-46938 **Dis. Chloride**	Result	MDL	Units	% Rec	%Rec Limits	RPD %	RPD % Limit	Comments
METHOD BLANK	<0.3	0.3	mg/L					U
LABORATORY FORTIFIED BLANK	10.0	0.3	mg/L	99.7	90-110			
CALIBRATION CHECK	5.0	0.3	mg/L	99.0	90-110			
DUP	15.8	0.6	mg/L			0.6	20	
MATRIX SPIKE - BN24777	36.5	0.6	mg/L	103.8	90-110			
MATRIX SPIKE DUP - BN24777	36.9	0.6	mg/L			1.1	20	
LABORATORY CONTROL STANDARD	11.4	0.3	mg/L	103.8	90-110			

Batch: ICPMS-D-I-46954 **Method Blank**	Result	MDL	Units	% Rec	%Rec Limits	RPD %	RPD % Limit	Comments
Dis. Arsenic	<0.3	0.3	µg/L					U
Dis. Iron	<10	10	µg/L					U
Dis. Manganese	<0.3	0.3	µg/L					U
Dis. Nickel	<0.3	0.3	µg/L					U
Dis. Zinc	<5	5	µg/L					U
Laboratory Fortified Blank								
Dis. Arsenic	49.3	0.3	µg/L	98.6	85-115			
Dis. Iron	2070	10	µg/L	103.6	85-115			
Dis. Manganese	50.9	0.3	µg/L	101.9	85-115			
Dis. Nickel	50.9	0.3	µg/L	101.8	85-115			
Dis. Zinc	51	5	µg/L	102.3	85-115			
Calibration Check								
Dis. Arsenic	50	0.3	µg/L	99.9	90-110			
Dis. Iron	4030	10	µg/L	100.7	90-110			
Dis. Manganese	2100	0.3	µg/L	100.1	90-110			
Dis. Nickel	52	0.3	µg/L	103.2	90-110			
Dis. Zinc	51	5	µg/L	102.0	90-110			
Matrix Spike - BN24777								
Dis. Arsenic	105	0.6	µg/L	98.1	70-130			
Dis. Iron	19800	20	µg/L	102.9	70-130			
Dis. Manganese	4690	0.6	µg/L	100.9	70-130			
Dis. Nickel	97.8	0.6	µg/L	97.6	70-130			
Dis. Zinc	100	10	µg/L	99.4	70-130			
Matrix Spike Dup - BN24777								
Dis. Arsenic	105	0.6	µg/L			0.2	20	
Dis. Iron	20000	20	µg/L			1.4	20	
Dis. Manganese	4620	0.6	µg/L			1.4	20	
Dis. Nickel	98.8	0.6	µg/L			1.0	20	
Dis. Zinc	99	10	µg/L			0.5	20	
Laboratory Control Standard								
Dis. Arsenic	36.3	0.3	µg/L	100.9	80-120			
Dis. Iron	1680	10	µg/L	106.5	80-120			
Dis. Manganese	610	0.3	µg/L	103.7	80-120			
Dis. Nickel	425	0.3	µg/L	104.6	80-120			
Dis. Zinc	1120	5	µg/L	105.5	80-120			

February 5, 2021

Ms. Megan King
Floyd Snider Inc.
601 Union St., Suite 600
Seattle, WA 98101

Dear Ms. King,

On January 22nd, 3 samples were received by our laboratory and assigned our laboratory project number EV21010161. The project was identified as your COEV-DEVEL. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Glen Perry
Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Floyd Snider Inc. 601 Union St., Suite 600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	2/5/2021 EV21010161 EV21010161-01
CLIENT CONTACT:	Megan King	DATE RECEIVED:	01/22/2021
CLIENT PROJECT:	COEV-DEVEL	COLLECTION DATE:	1/20/2021 3:10:00 PM
CLIENT SAMPLE ID	MW-36-012021	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	02/04/2021	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14	EPA-8270	**87.8**	02/04/2021	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Floyd Snider Inc. 601 Union St., Suite 600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	2/5/2021 EV21010161 EV21010161-02
CLIENT CONTACT:	Megan King	DATE RECEIVED:	01/22/2021
CLIENT PROJECT:	COEV-DEVEL	COLLECTION DATE:	1/21/2021 10:05:00 AM
CLIENT SAMPLE ID	MW-21R-012121	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	02/04/2021	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14	EPA-8270	**86.1**	02/04/2021	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Floyd Snider Inc. 601 Union St., Suite 600 Seattle, WA 98101	DATE: ALS JOB#: ALS SAMPLE#:	2/5/2021 EV21010161 EV21010161-03
CLIENT CONTACT:	Megan King	DATE RECEIVED:	01/22/2021
CLIENT PROJECT:	COEV-DEVEL	COLLECTION DATE:	1/21/2021 5:00:00 PM
CLIENT SAMPLE ID	MW-31-012121	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	02/04/2021	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
Terphenyl-d14	EPA-8270	**82.0**	02/04/2021	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Floyd Snider Inc. 601 Union St., Suite 600 Seattle, WA 98101	DATE:	2/5/2021
		ALS SDG#:	EV21010161
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan King		
CLIENT PROJECT:	COEV-DEVEL		

LABORATORY BLANK RESULTS

MB-012521W - Batch 162302 - Water by EPA-8270

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Phenol	EPA-8270	U	UG/L	2.0	02/04/2021	JMK
Pyrene	EPA-8270	U	UG/L	2.0	02/04/2021	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/L	2.0	02/04/2021	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

CERTIFICATE OF ANALYSIS

CLIENT:	Floyd Snider Inc. 601 Union St., Suite 600 Seattle, WA 98101	DATE:	2/5/2021
		ALS SDG#:	EV21010161
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Megan King		
CLIENT PROJECT:	COEV-DEVEL		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 162302 - Water by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS MIN	LIMITS MAX	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	**26.5**			5	84	02/05/2021	JMK
Phenol - BSD	EPA-8270	**27.5**	**4**		5	84	02/05/2021	JMK
Pyrene - BS	EPA-8270	**93.1**			18	136	02/05/2021	JMK
Pyrene - BSD	EPA-8270	**92.6**	**1**		18	136	02/05/2021	JMK
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	**61.9**			20	150	02/05/2021	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	**68.1**	**10**		20	150	02/05/2021	JMK

APPROVED BY

Laboratory Director

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 98208 | PHONE 425-356-2600 | FAX 425-356-2626
ALS Group USA, Corp dba ALS Environmental

ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EV21010161

Date 1.20.21 Page 1 Of 1

PROJECT ID: CoEV-Devel
REPORT TO COMPANY: Floyd Snider
PROJECT MANAGER: Megan King
ADDRESS: 601 Union St. Seattle, WA 98101 Suite #600
PHONE: P.O. #:
E-MAIL: megan.king@floydsnider.com
INVOICE TO COMPANY:
ATTENTION:
ADDRESS:

SAMPLE I.D.	DATE	TIME	TYPE	LAB#
1. MW-36-012021	1.20.21	15:10	GW	1
2. MW-21R-012121	1.21.21	10:05	GW	2
3. MW-31-012121	1.21.21	17:00	GW	3
4.				
5.				
6.				
7.				
8.				
9.				
10.				

ANALYSIS REQUESTED

NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 ☐ BTEX by EPA 8260 ☐	MTBE by EPA 8021 ☐ MTBE by EPA 8260 ☐	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270 ☆	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐	Metals-MTCA-5 ☐ RCRA-8 ☐ Pri Pol ☐ TAL ☐	Metals Other (Specify)	TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐
									X					
									X					
									X					

OTHER (Specify)

NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1	
1	
1	

SPECIAL INSTRUCTIONS ☆ Bis(2-Ethylhexl) Phthalate only

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Tyler Scott F|S 1/22/21 11:50
   Received By: Shuttle ALS 1/22/2021 1150
2. Relinquished By:
   Received By:

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis: ~~10~~ Standard | 5 | 3 | 2 | 1 | SAME DAY

Fuels & Hydrocarbon Analysis: ~~5~~ Standard | 3 | 1 | SAME DAY

OTHER: Specify:

*Turnaround request less than standard may incur Rush Charges

Attachment 3
Data Validation Summary

FLOYD | SNIDER
strategy ▪ science ▪ engineering

Two Union Square
601 Union Street, Suite 600
Seattle, WA 98101
tel: 206.292.2078 fax: 206.682.7867

Data Validation Summary

Prepared by:	Chell Black
Date:	August 17, 2021
Project No.:	COEv DEVEL 2014
Sample Event(s):	2021 Groundwater Sampling, January & July
Sample Delivery Group(s):	OnSite 2101-210 and 2107-071 City of Everett 57730 and 58826 ALS EV21010161
Sample Media:	Groundwater

A Compliance Screening (Stages 1 & 2A) data quality review was performed on semi-volatile organic compounds, dissolved metals, and chloride resulting from laboratory analysis. The analytical data were validated in accordance with the U.S. Environmental Protection Agency's (USEPA's) *National Functional Guidelines for Inorganic Superfund Methods Data Review* (USEPA 2020a) and/or *National Functional Guidelines for Organic Superfund Methods Data Review* (USEPA 2020b).

A total of 20 groundwater samples from 2 sampling events were submitted in 5 sample delivery groups. For the January 2021 event 9 samples were submitted to OnSite Environmental (OnSite) under sample delivery group (SDG) 2101-210 for chemical analysis by USEPA 8270E, 3 of these 9 samples were also submitted to ALS Environmental under SDG EV21010161 for chemical analysis by USEPA 8270, and the same 9 samples were additionally submitted to the City of Everett Laboratory under SDG 57730 for chemical analysis by USEPA 200.8 and SM4500-CL-E. For the July 2021 event 11 samples were submitted to OnSite under SDG 2107-071 for chemical analysis by USEPA 8270E, and the same 11 samples were additionally submitted to the City of Everett Laboratory under SDG 58826 for chemical analysis by USEPA 200.8 and SM4500-CL-E.

For all sample delivery groups and analysis methods, the analytical holding times were met, and the method blanks had no detections. The matrix spike (MS), matrix spike duplicate (MSD) and laboratory control sample recoveries and MS/MSD relative percent differences all met USEPA requirements.

No qualifiers were added to the analytical results based on the data quality review. Data are determined to be of acceptable quality for use as reported by the laboratory.

REFERENCES

U.S. Environmental Protection Agency (USEPA). 2020a. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-542-R-20-006/OLEM 9240.1-66. November.

_____. 2020b. *National Functional Guidelines for Organic Superfund Methods Data Review.* Prepared by the Office of Superfund Remediation and Technology Innovation. EPA-540-R-20-005/OLEM 9240.0-51. November.

Attachment 4
Historical Groundwater Monitoring
Analytical Results and Groundwater Elevations

Table 1
Performance Monitoring
Ground Water Analytical Results
Everett Landfill

			Dissolved Metals					Conventional	SVOC
	Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
	Unit		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. / Date	25	23687	4040	10	76.6	230	10
MW-11R	NET	7/9/2001	6 U	**9223**	**1430**	5 U	8 U	**11.8**	1 U
MW-11R		10/3/2001	6 U	**7945**	**1553**	2 U	8 U	**18.0**	1 U
MW-11R		1/18/2002	6 U	**9439**	**1910**	2 U	**10.45**	**11.6**	4 U
MW-11R		4/10/2002	6 U	**8742**	**2025**	4 U	8 U	**13.8**	4 U
MW-11R		7/11/2002	4 U	**32**	**440**	4 U	8 U	**13.3**	4 U
MW-11R		10/9/2002	**4**	**12400**	**2210**	4 U	8 U	**19.8**	4 U
MW-11R		1/13/2003	4 U	**3970**	**97**	**4.6**	**8**	**40.3**	1 U
MW-11R		4/23/2003	4 U	**11000**	**1810**	4 U	8 U	**20.2**	1 U
MW-11R		10/9/2003	4 U	**12800**	**1860**	4 U	8 U	**38.4**	2.8 B
MW-11R		4/6/2004	2 U	**10200**	**1260**	2 U	8 U	**8.8**	1 U
MW-11R		7/15/2005	2 U	**12500**	**1260**	2 U	8 U	**8.0**	10 U
MW-11R		2/1/2006	4 U	**11800**	**1240**	2 U	8 U	**14.0**	10 U
MW-11R		7/10/2006	4 U	**13500**	**1700**	2 U	8 U	**13.0**	2 U
MW-11R		1/10/2007	4 U	**12400**	**1560**	4 U	8 U	**18.3**	2 U
MW-11RD		1/10/2007	4 U	**12700**	**1600**	4 U	8 U	**18.3**	2 U
MW-11R		7/17/2007	4 U	**11800**	**1600**	4 U	8 U	**15.6**	2 U
MW-11R		1/24/2008	2 U	**11500**	**1490**	4 U	8 U	**12.6**	10 U
MW-11R		6/18/2008	1.4 U	**12300**	**1410**	0.5 U	5 U	**11.5**	2 U
MW-11RD		6/18/2008	1.4 U	**12400**	**1420**	0.5 U	5 U	**11.4**	2 U
MW-11R		1/21/2009	1.7 U	**12200**	**1430**	0.5 U	5 U	**10.7**	2 U
MW-11R		7/10/2009	**1.2**	**14100**	**1410**	1 U	10 U	**14.5**	2 U
MW-11R		1/29/2010	**1.9**	**10800**	**1300**	1 U	10 U	**12.9**	2 U
MW-11R		7/28/2010	0.6 U	**9860**	**992**	0.5 U	5 U	**7.4**	2 U
MW-11R		1/20/2011	1.4 J	**11300**	**1250**	1 U	10 U	**10.8**	2 U
MW-11R		7/19/2011	1 U	**7960**	**716**	1 U	10 U	**8.8**	2 U
MW-11RD		7/19/2011	1 U	**7980**	**720**	1 U	10 U	**8.8**	2 U
MW-11R		1/23/2012	NS	NS	NS	NS	NS	NS	NS
MW-11R		7/11/2012	2.3	**7600**	**535**	0.5 U	5 U	**4.1**	2 U
MW-11R		1/22/2013	1.5 J	**3320**	**294**	1 U	10 U	**3.5**	2 U
MW-11R		7/18/2013	0.6 J	**5800**	**444**	0.5 U	5 U	**3.9**	**2.6**
MW-11R		1/31/2014	0.8 J	**6260**	**446**	0.5 U	5 U	**8.3**	2 U
MW-11R		7/25/2014	0.6 J	**5920**	**400**	0.5 U	5 U	**4.9**	2 U
MW-11R		2/9/2015	1 U	**5630**	**433**	1 U	10 U	**3.1**	2 U
MW-11R		7/29/2015	1 U	**5600**	**509**	1 U	10 U	**3.4**	2 U
MW-11R		1/19/2016	1 U	**159000**	**20700**	2.3 J	10 U	**2320**	2 U
MW-11R		7/18/2016	1 U	**5880**	**640**	1 U	10 U	**18.2**	2 U
MW-11R		1/26/2017	1 U	**8250**	**1060**	1 U	10 U	**14.3**	2 U
MW-11R		7/19/2017	1 U	**180**	**131**	1 U	10 U	**4.6**	2 U
MW-11R		2/9/2018	1 U	**4430**	**877**	1 U	10 U	**7.6**	2 U
MW-11R		7/31/2018	1 U	**780**	**768**	1 U	10.3 U	**7.6**	2 U
MW-11R		1/15/2019	1 U	**3330**	**727**	1 U	10 U	**10.7**	2 U
MW-11R		7/10/2019	1 U	**320**	**559**	1 U	10 U	**8.5**	2 U
MW-11R		2/3/2020	1 U	**2500**	**631**	1 U	10 U	**7.1**	2 U
MW-11R		7/21/2020	1 U	**5200**	**428**	1 U	10 U	**7.7**	2 U
MW-21	NET	7/3/2001	6 U	**15**	**234**	5 U	8 U	**18.1**	1 U
MW-21		10/2/2001	6 U	**25**	**147**	**7.8**	8 U	**19.7**	1 U
MW-21		1/18/2002	6 U	**49**	**199**	**9.06**	8 U	**20.0**	4 U
MW-21		4/9/2002	6 U	**37**	**222**	**8.82**	8 U	**18.2**	4 U
MW-21		7/9/2002	4 U	**17**	**166**	**7.6**	8 U	**21.1**	4 U
MW-21		10/9/2002	4 U	**15**	**241**	**8.2**	8 U	**16.3**	4 U
MW-21		1/14/2003	4 U	**22**	**205**	**8.3**	8 U	**19.7**	1 U
MW-21		4/22/2003	4 U	**25**	**159**	**8.4**	8 U	**20.2**	1 U
MW-21		10/9/2003	4 U	**17**	**245**	**9.1**	8 U	**16.0**	1 U
MW-21		4/5/2004	2 U	**36**	**293**	**9.9**	8 U	**17.9**	1 U
MW-21		7/14/2005	2 U	**22**	**189**	**8.6**	8 U	**18.0**	10 U
MW-21		1/31/2006	4 U	**49**	**132**	**7.9**	**9**	**18.0**	10 U
MW-21R	NET	1/21/2009	**22.3**	**2470**	**1210**	**2.3**	8 U	**13.7**	2 U
MW-21R		7/9/2009	**31**	**7950**	**1970**	1 U	10 U	**9.1**	2 U
MW-21RD		7/9/2009	**30.4**	**7910**	**1940**	1 U	10 U	**9.4**	2 U
MW-21R		1/28/2010	**16.9**	**7510**	**1410**	1 U	10 U	**12.6**	2 U
MW-21R		7/28/2010	**23.7**	**8580**	**1660**	0.5 U	5 U	**9.1**	2 U
MW-21R		1/20/2011	**24.2**	**11400**	**1720**	1 U	10 U	**10.0**	2 U
MW-21R		7/19/2011	**25**	**11700**	**1830**	1 U	10 U	**8.5**	2 U
MW-21R		1/23/2012	**24.6**	**11400**	**2080**	1 U	10 U	**8.4**	2 U
MW-21R		7/18/2012	**6.8**	**8820**	**1600**	0.6 J	5 U	**11.1**	2 U
MW-21R		1/22/2013	1.0 J	**290**	**50**	1 U	10 U	**10.4**	2 U
MW-21R		7/18/2013	0.7 J	**98**	**121**	0.7 J	5 U	**12.2**	2 U
MW-21R		2/1/2014	**20.6**	**10300**	**1860**	0.5 U	5 U	**7.4**	2 U
MW-21R		7/25/2014	**15.0**	**9220**	**1280**	0.5 U	5 U	**9.6**	2 U
MW-21R		2/10/2015	**21**	**13700**	**1720**	1 U	10 U	**10.2**	2 U
MW-21RD		2/10/2015	**24.2**	**14000**	**1730**	1 U	10 U	**10.5**	**16**
MW-21R		7/30/2015	1.8 J	42 J	3 J	1 U	10 U	**10.9**	2 U
MW-21R		1/19/2016	**15.1**	**13500**	**1330**	1 U	10 U	**16.2**	2 U
MW-21R		7/18/2016	**1.5** J	**100** J	**19.3**	1 U	10 U	**13.3**	2 U
MW-21R		1/26/2017	**14.8**	**13900**	**1760**	1 U	10 U	**16.3**	2 U
MW-21R		7/19/2017	**1.5** J	**48** J	**4.5**	1 U	10 U	**14.0**	2 U
MW-21R		2/9/2018	**15.7**	**12100**	**1670**	1 U	10 U	**18.9**	**2.1**
MW-21RD		2/9/2018	**17.3**	**13600**	**1770**	1 U	10 U	**18.6**	**2.2**
MW-21R		7/31/2018	**1.4** J	**50** J	**13.1**	1 U	10.3 U	**17.0**	2 U
MW-21R		1/15/2019	**1.0** J	**1950**	**1440**	1 U	10 U	**16.0**	2 U
MW-21R		7/10/2019	1 U	**67** J	**9**	1 U	10 U	**12.2**	2 U
MW-21R		2/3/2020	**9.6**	**10800**	**1780**	1 U	10 U	**9.6**	2 U
MW-21R		7/21/2020	1 U	40 U	**319**	1 U	10 U	**11.2**	2 U
MW-28	NET	7/6/2001	**8**	**7972**	**247**	5 U	8 U	**4.5**	1 U
MW-28		10/5/2001	**8**	**5414**	**161**	2 U	8 U	**4.8**	1 U
MW-28		1/23/2002	**8.52**	**9332**	**273**	2 U	8 U	**4.8**	4 U
MW-28		4/15/2002	**8.18**	**7644**	**239**	4 U	8 U	**4.7**	4 U
MW-28		7/9/2002	**13**	**8220**	**231**	4 U	8 U	**5.3**	4 U
MW-28D		7/9/2002	**12**	**8260**	**233**	4 U	8 U	**5.3**	4 U
MW-28		10/14/2002	**8**	**7490**	**217**	4 U	8 U	**5.1**	4 U
MW-28		1/16/2003	**8**	**9190**	**257**	4 U	8 U	**5.4**	1 U
MW-28		4/24/2003	**8**	**7350**	**239**	4 U	8 U	**5.0**	1 U
MW-28		10/14/2003	**8**	**8020**	**225**	4 U	8 U	**5.2**	**5.6**
MW-28		4/12/2004	**7**	**7450**	**248**	2 U	8 U	**4.9**	1 U
MW-28		7/19/2005	**8**	**8750**	**265**	2 U	8 U	**5.0**	10 U
MW-28		2/3/2006	**8**	**8950**	**244**	2 U	8 U	**5.0**	10 U
MW-28		7/11/2006	**8**	**6440**	**200**	2 U	**10**	**5.2**	2 U
MW-28		1/10/2007	**8**	**8960**	**250**	4 U	8 U	**5.3**	2 U
MW-28		7/18/2007	**7**	**6110**	**240**	4 U	8 U	**5.6**	2 U
MW-28		1/29/2008	**9**	**7300**	**230**	4 U	8 U	**5.2**	10 U
MW-28D		1/29/2008	**7**	**6420**	**220**	4 U	8 U	**5.1**	10 U
MW-28		6/19/2008	**10.2**	**9000**	**236**	0.5 U	5 U	**4.9**	2 U

Table 1
Performance Monitoring
Ground Water Analytical Results
Everett Landfill

			Dissolved Metals					Conventional	SVOC
	Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
	Unit		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. / Date	25	23687	4040	10	76.6	230	10
MW-29	NET	7/10/2001	6 U	**3930**	**378**	5 U	8 U	**9.8**	1 U
MW-29		10/3/2001	6 U	**288**	**186**	2 U	8 U	**10.1**	1 U
MW-29		1/24/2002	6 U	**4472**	**376**	2 U	8 U	**10.1**	4 U
MW-29		4/12/2002	6 U	**4593**	**372**	4 U	8 U	**9.7**	4 U
MW-29		7/10/2002	4 U	**5240**	**361**	4 U	8 U	**10.4**	4 U
MW-29		10/11/2002	4 U	**4580**	**367**	4 U	8 U	**10.7**	4 U
MW-29		1/17/2003	4 U	**4480**	**346**	4 U	8 U	**11.3**	**1.1**
MW-29		4/30/2003	4 U	**4800**	**356**	4 U	8 U	**10.4**	**2**
MW-29		10/13/2003	4 U	**4670**	**373**	4 U	8 U	**10.4**	1 U
MW-29		4/9/2004	2 U	**5180**	**400**	2 U	8 U	**11.6**	1 U
MW-29		7/18/2005	2 U	**4310**	**394**	2 U	8 U	**10.0**	10 U
MW-29		2/3/2006	**5**	**4030**	**319**	2 U	8 U	**11.0**	10 U
MW-29		7/11/2006	4 U	**3320**	**360**	2 U	**8**	**10.4**	2 U
MW-29		1/12/2007	4 U	**4040**	**350**	4 U	8 U	**11.0**	2 U
MW-29		7/18/2007	4 U	**4270**	**380**	4 U	8 U	**11.4**	2 U
MW-29		1/29/2008	2 U	**4140**	**370**	4 U	8 U	**10.5**	10 U
MW-29		6/18/2008	0.5 U	**4650**	**352**	0.5 U	5 U	**10.7**	2 U
MW-29		1/22/2009	0.5 U	**7210**	**361**	0.5 U	5 U	**11.4**	2 U
MW-29		7/10/2009	1 U	**7010**	**380**	**1.3**	10 U	**10.7**	2 U
MW-29		1/28/2010	1 U	**4550**	**355**	1 U	10 U	**9.7**	2 U
MW-29		7/30/2010	0.6 J	**4270**	**326**	0.5 U	5 U	**9.1**	2 U
MW-29		1/21/2011	1 U	**5520**	**358**	1 U	10 U	**10.0**	2 U
MW-29		7/18/2011	1 U	**4420**	**341**	1 U	10 U	**9.3**	**2.4**
MW-29		1/23/2012	NS	NS	NS	NS	NS	NS	NS
MW-29		7/18/2012	NS	NS	NS	NS	NS	NS	NS
MW-29		1/22/2013	NS	NS	NS	NS	NS	NS	NS
MW-29R		7/29/2015	2.6 J	**1800**	**473**	3.6 J	10 U	**108**	**7.7**
MW-29R		1/19/2016	1 U	**9360**	**604**	1 U	10 U	**11.7**	2 U
MW-29R		7/14/2016	1 U	**7500**	**493**	1 U	10 U	**28.4**	2 U
MW-29R		1/26/2017	1 U	**10200**	**675**	1 U	10 U	**13.4**	2 U
MW-29R		7/20/2017	1 U	**9630**	**643**	1 U	10 U	**13.7**	2 U
MW-29R		2/9/2018	1 U	**9210**	**604**	1 U	10 U	**14.1**	2 U
MW-29R		8/1/2018	1 U	**6450**	**557**	1 U	10.3 U	**14.9**	2 U
MW-29R		1/29/2019	1 U	**160**	**500**	1 U	10 U	**15.8**	2 U
MW-29R		7/10/2019	1 U	**4110**	**527**	1 U	10 U	**13.3**	2 U
MW-29R		2/3/2020	1 U	**7790**	**424**	1 U	10 U	**11.4**	2 U
MW-29RD		2/3/2020	1 U	**7480**	**430**	1 U	10 U	**11.3**	2 U
MW-29R		7/22/2020	1 U	**2650**	**283**	1 U	10 U	**10.6**	2 U
MW-30	NET	7/5/2001	**8**	**4653**	**573.75**	5 U	8 U	**27.1**	1 U
MW-30		10/3/2001	6 U	**254**	**186**	2 U	8 U	**26.5**	1 U
MW-30		1/25/2002	**9.34**	**6578**	**548.08**	2 U	8 U	**23.7**	4 U
MW-30		4/11/2002	**11.14**	**6253**	**506.64**	4 U	8 U	**23.1**	4 U
MW-30		7/10/2002	4 U	**222**	**324**	4 U	8 U	**23.9**	4 U
MW-30		10/10/2002	**11**	**5810**	**484**	4 U	8 U	**19.4**	4 U
MW-30		1/16/2003	**11**	**6240**	**505**	4 U	8 U	**19.6**	1 U
MW-30		4/29/2003	**9**	**5850**	**500**	4 U	8 U	**19.7**	1 U
MW-30		10/13/2003	**10**	**5380**	**478**	4 U	8 U	**17.0**	1 U
MW-30		4/8/2004	**11**	**5160**	**495**	2 U	8 U	**18.4**	1 U
MW-30		7/14/2005	**9**	**5070**	**480**	2 U	8 U	**21.0**	10 U
MW-30		2/3/2006	**13**	**5290**	**460**	2 U	8 U	**20.0**	10 U
MW-30		7/11/2006	4 U	**4070**	**450**	2 U	8 U	**17.4**	2 U
MW-30		1/12/2007	**7**	**5780**	**490**	4 U	8 U	**16.8**	2 U
MW-30		7/18/2007	**5**	**3690**	**400**	4 U	8 U	**14.6**	2 U
MW-30		1/29/2008	**9**	**5240**	**480**	4 U	8 U	**13.2**	10 U
MW-30		6/18/2008	0.7 U	47 J	**116**	0.5 U	5 U	**16.8**	2 U
MW-30		1/22/2009	**5.6**	**4130**	**475**	0.5 U	5 U	**23.5**	2 U
MW-30		7/10/2009	**6.6**	**3630**	**346**	1 U	10 U	**12.9**	2 U
MW-30		1/28/2010	**7.2**	**4310**	**421**	1 U	10 U	**15.3**	2 U
MW-30		7/30/2010	**7**	**5250**	**406**	0.5 U	5 U	**15.7**	2 U
MW-30		1/21/2011	**8.5**	**5420**	**428**	1 U	10 U	**11.9**	2 U
MW-30		7/18/2011	**8.2**	**4940**	**417**	1 U	10 U	**12.3**	2 U
MW-30		1/24/2012	**7.2**	**5000**	**445**	1 U	10 U	**12.8**	2 U
MW-30		7/18/2012	1.7 J	**2340**	**691**	0.5 U	5 U	**13.5**	2 U
MW-30D		7/18/2012	1.8 J	**2380**	**688**	0.5 U	5 U	**13.0**	2 U
MW-30		1/22/2013	**6.7**	**4730**	**424**	1 U	10 U	**13.8**	2 U
MW-30D		1/22/2013	**6.8**	**4710**	**423**	1 U	10 U	**12.9**	2 U
MW-30		7/18/2013	**4.3**	**3530**	**386**	0.5 U	5 U	**14.7**	**2.4**
MW-30D		7/18/2013	**4.8**	**3820**	**394**	0.5 U	5 U	**14.9**	2 U
MW-30		1/31/2014	**8.2**	**6300**	**428**	0.5 U	5 U	**11.1**	2 U
MW-30		7/28/2014	1.2 J	**790**	**116**	0.5 U	5 U	**11.0**	2 U
MW-30		2/9/2015	b	**7110**	**447**	1 U	10 U	**10.7**	2 U
MW-30		7/29/2015	1 U	**320**	**25**	1 U	10 U	**9.8**	2 U
MW-30		1/19/2016	**4.3**	**6780**	**465**	1 U	10 U	**33.6**	2 U
MW-30		7/14/2016	**8**	**8320**	**559**	1 U	10 U	**142**	2 U
MW-30		1/26/2017	**8.6**	**7290**	**446**	1 U	**72**	**11.2**	2 U
MW-30		7/20/2017	1 U	**150** J	**14.4**	1 U	10 U	**11.2**	2 U
MW-30		2/9/2018	**9**	**8830**	**509**	1 U	10 U	**11.1**	2 U
MW-30		8/1/2018	**7.6**	**8690**	**482**	1 U	10.3 U	**12.8**	2 U
MW-30		1/15/2019	**7.2**	**8490**	**495**	1 U	10 U	**13.1**	2 U
MW-30		7/10/2019	**1.8** J	**1780**	**174**	1 U	10 U	**9.0**	2 U
MW-30		2/3/2020	**2.5** J	**6420**	**428**	1 U	10 U	**11.3**	2 U
MW-30		7/22/2020	1 U	**970**	**84**	1 U	10 U	**10.3**	2 U

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			Dissolved Metals					Conventional	SVOC
	Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
	Unit		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. / Date	25	23687	4040	10	76.6	230	10
MW-31	NET	7/5/2001	6 U	43672	1261.8	5 U	8 U	149.8	1 U
MW-31		10/3/2001	6 U	29424	866.99	3.9	8 U	150.0	1 U
MW-31		1/22/2002	6 U	39542	1206.2	5.83	8 U	137.5	6
MW-31		4/10/2002	6 U	38227	1178	4 U	8 U	136.9	4 U
MW-31		7/11/2002	4 U	41700	1190	4 U	8 U	132.0	4 U
MW-31		10/10/2002	4 U	42000	1190	4.4	8 U	150.0	4 U
MW-31D		10/10/2002	4 U	41800	1180	4 U	8 U	151.0	4 U
MW-31		1/16/2003	4 U	38400	1150	4.5	8 U	13.5	1 U
MW-31		4/29/2003	4 U	38800	1130	4 U	8 U	131.0	320
MW-31		10/13/2003	4 U	41300	1230	4.4	8 U	147.0	1 U
MW-31		4/8/2004	3	35600	1220	4.7	8 U	120.0	1.5 B
MW-31		7/14/2005	2 U	33400	1150	3.9	8 U	127.0	10 U
MW-31		2/3/2006	4 U	31800	1150	2.9	8 U	130.0	10 U
MW-31		7/12/2006	4 U	36100	1160	3	8 U	132.0	2 U
MW-31		1/12/2007	4 U	34300	1170	4	16	134.0	2 U
MW-31		7/17/2007	4 U	37100	1180	7	8 U	149.0	2 U
MW-31		1/29/2008	2 U	32200	1160	4 U	8 U	138.0	10 U
MW-31		6/18/2008	1.8 U	39500	1160	3.2	5 U	132.0	2 U
MW-31		1/22/2009	1.5 U	32400	1080	3	5 U	149.7	2 U
MW-31		7/10/2009	1.3	40300	1170	3.2	10 U	148.0	2 U
MW-31		1/28/2010	1.3	31200	1130	3.2	10 U	147.0	2 U
MW-31		7/30/2010	1.4 J	38600	1150	3	5 U	143.0	2 U
MW-31D		7/30/2010	1.3 J	37600	1110	3.2	5 U	144.0	2 U
MW-31		1/21/2011	1.4 J	36500	1160	3 J	10 U	157.0	2 U
MW-31D		1/21/2011	1.4 J	36300	1160	3 J	10 U	161.0	2 U
MW-31		7/18/2011	1.5 J	39600	1210	3.9 J	10 U	132.0	2 U
MW-31		1/24/2012	1.4 J	34500	1190	3.4 J	10 U	143.0	2 U
MW-31		7/18/2012	1.5 J	39700	1150	3.2	5 U	138.0	2 U
MW-31		1/22/2013	1.6 J	42100	1210	3.5 J	10 U	134.0	2.7
MW-31		7/19/2013	1.5 J	39900	1180	3.1	7 J	149.0	3
MW-31		1/31/2014	1.5 J	44300	1220	3.3	5 U	139.0	2 U
MW-31		7/28/2014	1.6 J	48100	1170	3.3	5 U	150.0	2 U
MW-31		2/9/2015	2.5 J	70400	1180	3.8 J	10 U	144.0	2 U
MW-31		7/29/2015	2 J	59600	1220	3.1 J	10 U	148.0	2 U
MW-31D		7/29/2015	2 J	58800	1220	3.7 J	10 U	149.0	2 U
MW-31		1/19/2016	1.4 J	40400	1010	2.7 J	10 U	148.0	2 U
MW-31D		1/19/2016	1.5 J	40600	1010	2.6 J	10 U	148.0	2 U
MW-31		7/14/2016	1.9 J	58300	1250	3.6 J	10 U	36.8	2 U
MW-31D		7/14/2016	2 J	58500	1260	3.4 J	10 U	142.0	2 U
MW-31		1/26/2017	1.7 J	48300	1190	3.4 J	10 U	141.0	2 U
MW-31		7/20/2017	1.9 J	47500	1240	3.5 J	10 U	140.0	2 U
MW-31D		7/20/2017	1.9 J	48300	1250	3.5 J	10 U	130.0	2 U
MW-31		2/9/2018	2.3 J	52700	1260	3.6 J	10 U	137.0	2.8
MW-31		8/1/2018	1.5 J	42400	1170	3.1 J	10.3 U	133.0	2 U
MW-31		1/15/2019	1.9 J	45900	1140	3.3 J	10 U	133.0	2 U
MW-31		7/10/2019	1.6 J	42200	1210	3.1 J	10 U	136.0	2 U
MW-31		2/3/2020	1.6 J	43600	1190	2.8 J	10 U	136.0	2 U
MW-31		7/22/2020	1.7 J	46400	1250	3.1 J	10 U	144.0	2 U
MW-31D		7/22/2020	1.6 J	45200	1240	3.1 J	10 U	143.0	2 U
MW-33	BG	7/5/2001	6 U	14 U	54	5 U	8 U	20.4	1 U
MW-33		10/2/2001	NS	NS	NS	NS	NS	NS	NS
MW-33		1/17/2002	6 U	14 U	27	3.67	42.2	8.7	4 U
MW-33		4/9/2002	6 U	14 U	20	4.36	32.12	8.3	4 U
MW-33		7/8/2002	4 U	14 U	16	4 U	462.6	5.3	4 U
MW-33		10/8/2002	4 U	14 U	3	4 U	23	7.9	4 U
MW-33		1/21/2003	4 U	14 U	1	4 U	26	7.8	1.1
MW-33		4/22/2003	4 U	14 U	1 U	4 U	48	7.2	1 U
MW-33		10/7/2003	4 U	14 U	1 U	4 U	19	8.5	1 U
MW-33		4/5/2004	2 U	14 U	1 U	3	15	8.3	1 U
MW-33		7/18/2005	2 U	14 U	1 U	3	19	12.0	10 U
MW-33		1/31/2006	4 U	14 U	1 U	2.7	18	8.0	10 U
MW-33		7/10/2006	4 U	14 U	1 U	3	11	6.6	2 U
MW-33		1/12/2007	4 U	14 U b		6	33	7.2	2 U
MW-33		7/20/2007	4 U	14 U	1	4 U	70	6.2	2 U
MW-33		1/30/2008	2 U	14 U	1 U	4 U	68	5.3	10 U
MW-33		6/19/2008	0.6 U	30 U	2 U	3.2 U	29	5.1	2 U
MW-35	BG	7/5/2001	6 U	14 U	109	5 U	8 U	46.3	1 U
MW-35		10/2/2001	6 U	14 U	19	2.3	48.85	47.1	1 U
MW-35		1/17/2002	6 U	14 U	6	2.97	8 U	43.1	4 U
MW-35		4/9/2002	6 U	47	2	4 U	8 U	42.5	4 U
MW-35		7/8/2002	4 U	14 U	1 U	4 U	8 U	42.5	4 U
MW-35		10/8/2002	4 U	14 U	1 U	4 U	8 U	43.8	4 U
MW-35		1/14/2003	4 U	14 U	1 U	4 U	8 U	48.6	1 U
MW-35		4/22/2003	4 U	14 U	1 U	4 U	8 U	44.2	1 U
MW-35		10/7/2003	4 U	25	1 U	4 U	8 U	45.0	1 U
MW-35		4/5/2004	2 U	14 U	1 U	2 U	8 U	45.0	1 U
MW-35		7/18/2005	2 U	14 U	1 U	2 U	8 U	44.0	10 U
MW-35		2/1/2006	4 U	14 U	1 U	2 U	8 U	42.0	10 U
MW-36	POC	7/6/2001	14.7	12552	728	5 U	8 U	69.3	1 U
MW-36		10/8/2001	9	12067	543	2 U	8 U	59.1	1 U
MW-36		1/22/2002	8.46	15896	648	2.85	8 U	41.6	4 U
MW-36		4/10/2002	6 U	24681	663	4 U	8 U	96.5	4 U
MW-36		7/11/2002	10	15300	670	4 U	8 U	44.5	4 U
MW-36		10/9/2002	9	16500	687	4 U	8 U	44.0	4 U
MW-36		1/15/2003	8	17300	705	4 U	8 U	40.4	1 U
MW-36		4/23/2003	6	14700	693	4 U	8 U	41.0	1 U
MW-36		10/9/2003	7	16400	728	4 U	8 U	36.8	2.9 B
MW-36		4/6/2004	9	17100	778	2 U	8 U	52.5	1 U
MW-36		7/15/2005	8	18000	852	2 U	8 U	38.9	10 U
MW-36		2/1/2006	4 U	255	26.1	2 U	43	2.2	10 U
MW-36		7/13/2006	14	18200	850	2	9	35.5	2 U
MW-36		1/12/2007	9	17600	850	4 U	8 U	29.1	2 U
MW-36		7/20/2007	9	18300	870	4 U	8 U	34.4	2 U
MW-36		1/25/2008	6	11600	890	4 U	26	28.3	10 U
MW-36		6/19/2008	5	15000	690	1.1 U	9 U	28.6	2 U
MW-36		1/22/2009	1.7 U	1000	390	2.7	29	8.8	2 U
MW-36D		1/22/2009	0.9 U	420	300	2.4	28	12.0	2 U
MW-36		7/9/2009	3.1	18100	742	1 U	10 U	29.8	2 U

Table 1
Performance Monitoring
Ground Water Analytical Results
Everett Landfill

			Dissolved Metals					Conventional	SVOC
	Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
	Unit		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. / Date	25	23687	4040	10	76.6	230	10
MW-36		1/29/2010	**3.8**	**6820**	**759**	**2.3**	36	**23.2**	2 U
MW-36		7/29/2010	**4.1**	**15800**	**685**	0.9 J	5 U	**40.3**	2 U
MW-36		1/20/2011	**4.5**	**16400**	**685**	1 U	10 U	**32.3**	2 U
MW-36		7/19/2011	**4.7**	**16100**	**698**	1.1 J	10 U	**32.6**	2 U
MW-36		1/23/2012	**5.6**	**16000**	**724**	1 U	10 U	**27.5**	2 U
MW-36D		1/23/2012	**5.6**	**16000**	**728**	1 U	10 U	**28.5**	2 U
MW-36		7/18/2012	**4.8**	**14800**	**677**	0.8 J	5 U	**29.4**	2 U
MW-36		1/22/2013	**4.4**	**14200**	**850**	2.5 J	22 J	**25.7**	2 U
MW-36		7/18/2013	**6.3**	**15800**	**745**	0.9 J	6 J	**26.0**	2 U
MW-36		1/31/2014	**5.6**	**14800**	**757**	0.8 J	5 U	**22.4**	2 U
MW-36		7/25/2014	**5.4**	**12300**	**650**	0.9 J	5 U	**33.0**	2 U
MW-36		2/10/2015	**6.6**	**18700**	**765**	1 U	10 U	**27.0**	2 U
MW-36		7/29/2015	1 U	40 U	1 U	1 U	10 U	**210.0**	2 U
MW-36		1/22/2016	**4.6**	**24900**	**1350**	2.7 J	10 U	**253.0**	2 U
MW-36		7/14/2016	**5.1**	**580**	**131**	3.3 J	10 U	**86.4**	2 U
MW-36		2/1/2017	1 U	**240**	**94.2**	2.2 J	10 U	**111**	2 U, H
MW-36		7/20/2017	2.2 J	**680**	**351**	2 J	10 U	**69.8**	2 U
MW-36		2/9/2018	2.2 J	**10500**	**640**	1 U	10 U	**131**	2 U
MW-36		8/1/2018	1.4 J	**3960**	**427**	1.3 J	10.3 U	**91.4**	2 U
MW-36		1/29/2019	1.1 J	**4740**	**277**	1 U	10 U	**81**	2 U
MW-36		7/11/2019	3.6 J	**7450**	**334**	1 U	10 U	**49.7**	2 U
MW-36		2/4/2020	2.1 J	**190**	**170**	2.2 J	10 U	**21.6**	2 U
MW-36		7/23/2020	**7.1**	**4350**	**378**	2 J	10 U	**35.7**	2 U
MW-37	POC	7/6/2001	6 U	**22907**	**700**	5 U	8 U		1 U
MW-37		10/8/2001	6 U	**20327**	**599**	2 U	8 U	**87.0**	1 U
MW-37		1/22/2002	6 U	**22525**	**678**	**2.87**	**8.1**	**92.3**	4 U
MW-37		4/10/2002	**9.4**	**16182**	**665**	4 U	8 U	**48.3**	4 U
MW-37		7/11/2002	4 U	**25400**	**688**	4 U	8 U	**92.3**	4 U
MW-37	not	10/9/2002	4 U	**25500**	**664**	4 U	**11**	**112.0**	4 U
MW-37	sampled	1/15/2003	4 U	**26800**	**694**	4 U	8 U	**114.0**	1 U
MW-37	2006-2015	4/23/2003	4 U	**23100**	**598**	4 U	8 U	**117.0**	1 U
MW-37	due to	10/8/2003	4 U	**22700**	**651**	4 U	8 U	**190.0**	1 U
MW-37	saline river	4/6/2004	**3**	**25100**	**724**	2 U	8 U	**157.0**	1 U
MW-37	water	7/15/2005	2 U	**26500**	**807**	2 U	8 U	**248.0**	10 U
MW-37	biasing	2/1/2006	4 U	**29900**	**956**	2 U	8 U	**461.0**	10 U
MW-37	results	7/13/2006	4 U	**26500**	**840**	2 U	**61**	**257.0**	2 U
MW-37D		7/13/2006	4 U	**26800**	**840**	2 U	8 U	**298.0**	2 U
MW-37		7/29/2015	1.2 J	**2710**	**491**	1.3 J	10 U	**31.0**	2 U
MW-37		1/22/2016	1 U	**33300**	**894**	1.4 J	23 J	**155.0**	2 U
MW-37		7/14/2016	1 U	**28200**	**720**	1 U	10 U	**251.0**	2 U
MW-37		2/1/2017	1 U	**35100**	**1230**	1 U	10 U	**1690**	2 U, H
MW-37D		2/1/2017	1 U	**34400**	**1200**	1 U	10 U	**1680**	2 U, H
MW-37	resample	4/5/2017						**840**	
MW-37		7/20/2017	1 U	**18900**	**830**	1 U	10 U	**1790**	2 U
MW-37		2/9/2018	1 U	**9180**	**494**	1 U	10 U	**1590**	**2.5**
MW-37		8/2/2018	1 U	**11100**	**509**	1 U	10.3 U	**1360**	2 U
MW-37		1/29/2019	1 U	**12800**	**419**	1 U	10 U	**465**	2 U
MW-37		7/11/2019	1 U	**20600**	**873**	1 U	10 U	**884**	2 U
MW-37D		7/11/2019	1 U	**20600**	**870**	1 U	10 U	**880**	2 U
MW-37		2/4/2020	1 U	**15100**	**733**	1 U	10 U	**480**	2 U
MW-37		7/23/2020	1 U	**17900**	**1350**	1 U	10 U	**995**	2 U
MW-38	POC	7/6/2001	6 U	**3022**	**384**	5 U	8 U	**17.1**	1 U
MW-38		10/8/2001	6 U	**4066**	**287**	2 U	8 U	**20.6**	1 U
MW-38		1/23/2002	6 U	**3653**	**272**	2 U	**8.3**	**15.4**	4 U
MW-38		4/12/2002	6 U	**3665**	**263**	4 U	8 U	**15.4**	**5.4**
MW-38		7/11/2002	4 U	**3480**	**262**	4 U	8 U	**19.4**	4 U
MW-38		10/15/2002	4 U	**2290**	**234**	4 U	8 U	**19.2**	4 U
MW-38		1/15/2003	4 U	**4200**	**284**	4 U	8 U	**20.9**	1 U
MW-38		4/23/2003	4 U	**1560**	**219**	4 U	8 U	**16.2**	1 U
MW-38		10/8/2003	4 U	**4070**	**296**	4 U	8 U	**23.8**	1 U
MW-38		4/6/2004	2 U	**3690**	**279**	2 U	8 U	**22.1**	1 U
MW-38		7/15/2005	2 U	**4850**	**331**	2 U	8 U	**27.0**	10 U
MW-38		2/2/2006	4 U	**4130**	**289**	2 U	8 U	**24.0**	10 U
MW-38		7/10/2006	4 U	**4230**	**290**	2 U	8 U	**24.4**	2 U
MW-38		1/10/2007	4 U	**4120**	**300**	4 U	8 U	**26.4**	2 U
MW-38		7/20/2007	4 U	**1680**	**260**	4 U	8 U	**22.5**	2 U
MW-38		1/25/2008	2 U	**2470**	**230**	4 U	**31**	**16.5**	10 U
MW-38		6/19/2008	0.5 U	**6240**	**325**	0.5 U	5 U	**39.2**	2 U
MW-38		1/22/2009	0.5 U	**420**	**39**	1.2 U	**600**	**8.9**	2 U
MW-38		2/26/2009					**36**		
MW-38		7/9/2009	1 U	**3220**	**259**	1 U	**52**	**22.4**	2 U
MW-38		1/29/2010	1 U	**3300**	**267**	1 U	10 U	**16.2**	2 U
MW-38		7/29/2010	0.5 U	**3480**	**253**	0.5 U	5 U	**17.1**	2 U
MW-38		1/20/2011	1 U	**3610**	**265**	1 U	10 U	**13.9**	2 U
MW-38		7/18/2011	1 U	**4020**	**272**	1 U	10 U	**22.4**	2 U
MW-38		1/24/2012	1 U	**4000**	**301**	1 U	10 U	**17.1**	2 U
MW-38		7/18/2012	0.5 U	71 J	**107**	0.5 U	17 J	**16.2**	2 U
MW-38		1/22/2013	1 U	**3530**	**287**	1 U	10 U	**12.8**	2 U
MW-38		7/192013	0.5 U	**4190**	**288**	0.5 U	7 J	**30.4**	**2.1**
MW-38		2/6/2014	0.5 U	**3420**	**264**	0.5 U	5 U	**12.8**	2 U
MW-38		7/28/2014	0.5 U	**550**	**136**	0.5 U	7 J	**15.0**	2 U
MW-38		2/9/2015	1 U	**2720**	**236**	2 J	11 J	**10.5**	2 U
MW-38		7/29/2015	1 U	40 U	**213**	1 U	14 J	**11.1**	2 U
MW-38		1/22/2016	1 U	**3400**	**275**	1 U	10 U	**9.1**	2 U
MW-38		7/14/2016	1 U	**5460**	**502**	1 U	10 U	**86.4**	2 U
MW-38		2/1/2017	1 U	**3490**	**306**	1 U	10 U	**17.0**	**2** H
MW-38		7/20/2017	1 U	**3580**	**300**	1 U	10 U	**17.7**	2 U
MW-38		2/9/2018	1 U	**2810**	**295**	1 U	10 U	**11.0**	2 U
MW-38		8/2/2018	1 U	**1230**	**210**	1 U	10.3 U	**12.8**	2 U
MW-38D		8/2/2018	1 U	**970**	**202**	1 U	10.3 U	**12.9**	2 U
MW-38		1/29/2019	1 U	**2430**	**271**	1 U	10 U	**12.4**	2 U
MW-38D		1/29/2019	1 U	**2400**	**274**	1 U	10 U	**12.2**	2 U
MW-38		7/11/2019	1 U	**800**	**169**	1 U	10 U	**12.1**	2 U
MW-38		2/5/2020	1 U	40 U	**27.5**	1 U	10 U	**10.5**	2 U
MW-38		7/23/2020	1 U	**160**	**257**	1 U	10 U	**6.3**	2 U

Table 1
Performance Monitoring
Ground Water Analytical Results
Everett Landfill

			Dissolved Metals					Conventional	SVOC
	Chemical Name		Arsenic	Iron	Manganese	Nickel	Zinc	Chloride	bis (2-Ethylhexyl) phthalate
	Unit		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(ug/L)
Sample Location	Sample Type	C.L. / Date	25	23687	4040	10	76.6	230	10
MW-39	POC	7/6/2001	6 U	**420**	**206**	5 U	30	**49.8**	1 U
MW-39		10/8/2001	6 U	**916**	**236**	2 U	8 U	**45.7**	1 U
MW-39		1/23/2002	6 U	**1365**	**398**	2 U	8 U	**7.9**	**6.5**
MW-39		4/12/2002	6 U	**1638**	**384**	4 U	8 U	**6.8**	**7.2**
MW-39		7/9/2002	**8**	**2520**	**430**	4 U	**12**	**6.2**	**4.8**
MW-39		10/15/2002	**4**	**2740**	**398**	4 U	8 U	**5.6**	4 U
MW-39		1/15/2003	4 U	**2870**	**353**	4 U	8 U	**6.5**	1 U
MW-39		4/24/2003	4 U	**2080**	**363**	4 U	8 U	**5.1**	**74**
MW-39		10/8/2003	4 U	**3690**	**366**	4 U	8 U	**5.6**	1 U
MW-39		4/6/2004	**4**	**3730**	**323**	2 U	8 U	**5.3**	1 U
MW-39		7/15/2005	2 U	**18.2**	**300**	2 U	**16**	**6.0**	10 U
MW-39		2/2/2006	**6**	**3780**	**269**	2 U	8 U	**5.0**	10 U
MW-39		7/10/2006	4 U	**990**	**220**	2 U	**17**	**4.3**	2 U
MW-39		1/10/2007	4 U	**6980**	**280**	4 U	8 U	**5.4**	2 U
MW-39		7/19/2007	4 U	**5310**	**270**	4 U	8 U	**5.7**	2 U
MW-39D		7/19/2007	4 U	**5490**	**280**	4 U	8 U	**5.9**	2 U
MW-39		1/24/2008	**3**	**5560**	**260**	4 U	8 U	**5.8**	10 U
MW-39		6/18/2008	b	**4320**	**282**	0.5 U	5 U	**5.3**	2 U
MW-39		1/22/2009	1.5 U	**1950**	**252**	0.5 U	9 U	**6.1**	2 U
MW-39		7/9/2009	**1.1**	**1960**	**154**	1 U	10 U	**5.9**	2 U
MW-39		1/29/2010	**2.1**	**4930**	**239**	1 U	10 U	**6.3**	2 U
MW-39D		1/29/2010	**2.2**	**5030**	**240**	1 U	10 U	**6.2**	2 U
MW-39		7/29/2010	1.5 J	**2990**	**224**	0.5 U	5 U	**6.1**	2 U
MW-39		1/20/2011	2.5 J	**5750**	**249**	1 U	10 U	**6.3**	2 U
MW-39		7/18/2011	1.6 J	**3210**	**212**	1 U	10 U	**5.6**	2 U
MW-39		1/24/2012	2.6 J	**6150**	**246**	1 U	10 U	**5.4**	2 U
MW-39		7/18/2012	**2.1**	**5430**	**234**	0.5 U	5 U	**5.9**	2 U
MW-39		1/22/2013	NS	NS	NS	NS	NS	NS	NS
MW-39R		7/29/2015	2 J	130 J	229	2 J	10 U	5.0	8.1
MW-39R		1/19/2016	2.4 J	**650**	**255**	2.1 J	30 J	**5.5**	2 U
MW-39R		7/15/2016	1 U	**4040**	**231**	1 U	10 U	**7.1**	2 U
MW-39R		1/26/2017	1 U	**4270**	**272**	1 U	10 U	**7.6**	2 U
MW-39R		7/20/2017	1 U	40 U	**10.1**	1.4 J	10 U	**1.4**	2 U
MW-39R		2/9/2018	1 U	**4460**	**249**	1 U	10 U	**7.9**	2 U
MW-39R		7/31/2018	1 U	**4600**	**239**	1 U	10.3 U	**7.6**	2 U
MW-39R		1/29/2019	1 U	40 U	**8.2**	1.0 J	10 U	**3.0**	2 U
MW-39R		7/10/2019	1 U	**2700**	**227**	1 U	10 U	**4.5**	2 U
MW-39R		2/3/2020	1 U	**190**	**170**	2.2 J	10 U	**21.6**	2 U
MW-39R		7/22/2020	1 U	40 U	**130**	1 U	10 U	**6.3**	2 U
MW-40		7/10/2006	4 U	**20100**	**450**	2 U	8 U		
MW-40		1/9/2007	4 U	**6060**	**940**	4 U	8 U	**225.0**	2 U
MW-40		7/19/2007	4 U	**4080**	**730**	4 U	8 U	**24.1**	2 U
MW-40		1/30/2008	2 U	**12200**	**1190**	4 U	8 U	**166.0**	10 U
MW-41		7/10/2006	4 U	**5360**	**970**	2 U	8 U		
MW-41		1/9/2007	4 U	**5780**	**1030**	4 U	8 U	**1610.0**	2 U
MW-41		7/19/2007	4 U	**4710**	**990**	4 U	8 U	**1880.0**	2 U
MW-41		1/30/2008	2 U	**1090**	**2710**	4 U	40 U	**6120.0**	10 U
MW-42		7/10/2006	**24**	**7290**	**430**	2 U	8 U	**8.4**	2 U
MW-42D		7/15/2006	**23**	**7280.0**	**420**	0 U	8 U	**4.0**	2 U
MW-42		1/9/2007	**22**	**7300.0**	**410**	4 U	8 U	**3.8**	2 U
MW-42		7/19/2007	**21**	**7040.0**	**390**	4 U	8 U	**4.5**	2 U
MW-42		1/30/2008	**22**	**7090.0**	**390**	4 U	8 U	**3.9**	10 U

NOTES:
Bold Analyte detected
Highlighted Analyte exceeds cleanup level
NET = network well for Performance and Confirmational Monitoring
BG = upgradient background well
POC = deep aquifer point of compliance monitoring well
C.L. = cleanup level
ug/L = micrograms per liter
mg/L = milligrams per liter
U = not detected at reporting limit shown
J = estimated concentration
NS = Not sampled
BKG = background (established after 3 year evaluation monitoring period)
B = likely laboratory contamination, analyte detected in field blank
D = duplicate sample collected
H = Sample analyzed outside of holding time

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-05	S, INT	7/2/2001	13.57	11.71
MW-05		10/1/2001	12.44	12.84
MW-05		1/16/2002	10.75	14.53
MW-05		4/8/2002	10.97	14.31
MW-05		7/3/2002	14.15	11.13
MW-05		10/7/2002	14.63	10.65
MW-05		1/16/2003	13.32	11.96
MW-05		4/21/2003	10.97	14.31
MW-05		10/6/2003	15.12	10.16
MW-05		4/2/2004	14.17	11.11
		Decommissioned 1/05		
MW-08	INT	7/2/2001	19.42	7.59
MW-08		10/1/2001	22.43	4.58
MW-08		1/16/2002	19.57	7.44
MW-08		4/8/2002	19.74	7.27
MW-08		7/3/2002	21.82	5.19
MW-08		10/7/2002	22.99	4.02
MW-08		1/16/2003	17.24	9.77
MW-08		4/21/2003	20.50	6.51
MW-08		10/6/2003	23.88	3.13
MW-08		4/2/2004	21.45	5.56
		Decommissioned 1/05		
MW-11R	NET	1/16/2002	6.25	6.47
MW-11R		4/8/2002	6.60	6.12
MW-11R		4/8/2002	6.60	6.12
MW-11R		7/3/2002	8.68	4.04
MW-11R		10/7/2002	10.56	2.16
MW-11R		1/16/2003	3.12	9.60
MW-11R		4/21/2003	5.77	6.95
MW-11R		10/6/2003	3.61	9.11
MW-11R		4/2/2004	8.62	4.10
MW-11R		7/13/2005	8.10	4.62
MW-11R		2/7/2006	4.34	8.38
MW-11R		7/10/2006	7.84	4.88
MW-11R		1/8/2007	2.89	9.83
MW-11R		7/16/2007	11.76	0.96
MW-11R		1/23/2008	4.48	8.24
MW-11R		6/17/2008	9.45	3.27
MW-11R		1/13/2009	5.53	7.19
MW-11R		7/8/2009	NR	----
MW-11R		1/26/2010	4.88	7.84
MW-11R		7/28/2010	7.05	5.67
MW-11R		1/21/2011	4.73	7.99
MW-11R		7/15/2011	9.27	3.45
MW-11R		1/23/2012	NR	----
MW-11R		7/19/2012	14.65	0.42
MW-11R		1/23/2013	11.52	2.68
MW-11R		7/18/2013	11.00	3.20
MW-11R		1/31/2014	9.08	3.20
MW-11R		7/25/2014	16.82	-2.62
MW-11R		7/28/2015	11.59	2.61
MW-11R		1/19/2016	14.11	0.09
MW-11R		7/18/2016	17.19	-2.99
MW-11R		1/26/2017	12.05	2.15
MW-11R		7/20/2017	16.11	-1.91
MW-11R		2/9/2018	10.87	3.33
MW-11R		7/31/2018	16.12	-1.92
MW-11R		1/15/2019	9.17	5.03
MW-11R		7/10/2019	15.62	-1.42
MW-11R		2/3/2020	7.88	6.32
MW-11R		7/21/2020	17.94	-3.74

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-14	S, INT	7/2/2001	17.85	8.40
MW-14		10/1/2001	20.38	5.87
MW-14		1/16/2002	18.20	8.05
MW-14		4/8/2002	18.45	7.80
MW-14		7/3/2002	20.36	5.89
MW-14		10/7/2002	20.35	5.90
MW-14		1/16/2003	19.52	6.73
MW-14		4/21/2003	18.16	8.09
MW-14		10/6/2003	20.39	5.86
		Decommissioned 1/05		
MW-17	S, INT	7/2/2001	11.32	13.89
MW-17		10/1/2001	2.91	22.30
MW-17		1/16/2002	NR	----
MW-17		4/8/2002	NR	----
MW-17		7/3/2002	NR	----
MW-17		10/7/2002	NR	----
MW-17		1/16/2003	NR	----
MW-17		4/21/2003	13.91	12.44
MW-17		10/6/2003	17.40	7.76
MW-17		4/2/2004	16.95	9.40
		Decommissioned 1/05		
MW-21	NET	7/2/2001	17.19	25.33
MW-21		10/1/2001	17.23	24.96
MW-21		1/16/2002	16.51	25.68
MW-21		4/8/2002	16.39	25.80
MW-21		7/3/2002	16.72	25.47
MW-21		10/7/2002	17.19	25.00
MW-21		1/16/2003	17.10	25.09
MW-21		4/21/2003	16.93	25.26
MW-21		10/6/2003	17.78	24.41
MW-21		4/2/2004	17.52	24.67
MW-21		7/13/2005	17.79	24.40
MW-21		2/7/2006	17.00	25.19
		Abandoned, 2006		
MW-21R	NET	1/13/2009	13.78	25.58
MW-21R		7/8/2009	14.26	25.10
MW-21R		1/26/2010	13.94	25.42
MW-21R		7/28/2010	13.06	26.30
MW-21R		1/21/2011	13.08	26.28
MW-21R		7/15/2011	12.66	26.70
MW-21R		1/23/2012	13.05	26.31
MW-21R		7/19/2012	12.55	26.81
MW-21R		1/23/2013	11.78	27.58
MW-21R		7/18/2013	12.19	27.17
MW-21R		2/1/2014	12.32	27.04
MW-21R		7/25/2014	12.36	27.00
MW-21R		2/10/2015	11.95	27.41
MW-21R		7/30/2015	12.61	26.75
MW-21R		1/19/2016	12.78	26.58
MW-21R		7/18/2016	12.72	26.64
MW-21R		1/26/2017	12.41	26.95
MW-21R		7/20/2017	12.92	26.44
MW-21R		2/9/2018	11.42	27.94
MW-21R		7/31/2018	11.91	27.45
MW-21R		1/15/2019	11.86	27.50
MW-21R		7/10/2019	12.45	26.91
MW-21R		2/3/2020	12.45	26.91
MW-21R		7/21/2020	12.55	26.81

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-22	S, NET	7/2/2001	10.98	16.79
MW-22		10/1/2001	10.93	16.84
MW-22		1/16/2002	11.04	16.73
MW-22		4/8/2002	10.94	16.83
MW-22		7/3/2002	11.01	16.76
MW-22		10/7/2002	11.05	16.72
MW-22		1/16/2003	10.99	16.78
MW-22		4/21/2003	10.94	16.83
MW-22		10/6/2003	11.01	16.76
MW-22		4/2/2004	10.95	16.82
MW-22		7/13/2005	10.99	16.78
MW-22		2/7/2006	10.87	16.90
MW-22		7/10/2006	10.84	16.93
MW-22		1/8/2007	10.79	16.98
MW-22		7/16/2007	8.43	19.34
MW-22		1/23/2008	10.68	17.09
MW-22		6/17/2008	10.78	16.99
MW-22		1/13/2009	10.63	17.14
MW-22		7/8/2009	NR	----
MW-22		1/26/2010	NR	----
MW-22		7/28/2010	NR	----
MW-22		1/21/2011	NR	----
MW-22		7/15/2011	10.50	17.27
MW-22		1/23/2012	13.13	14.64
MW-22		7/19/2012	NR	----
MW-22		1/23/2013	15.56	12.21
MW-22		7/18/2013	15.78	11.99
MW-22		2/1/2014	15.81	11.96
MW-22		7/28/2014	21.65	6.12
MW-22		2/10/2015	15.43	12.34
MW-23	S, INT	7/2/2001	19.44	12.05
MW-23		10/1/2001	19.70	11.79
MW-23		1/16/2002	18.71	12.78
MW-23		4/8/2002	18.69	12.80
MW-23		7/3/2002	19.58	11.91
MW-23		10/7/2002	19.74	11.75
MW-23		1/16/2003	18.90	12.59
MW-23		4/21/2003	18.42	13.07
MW-23		10/6/2003	19.72	11.77
MW-23		4/2/2004	18.93	12.56
		Decommissioned 1/05		
MW-24	S, NET	7/2/2001	8.14	9.76
MW-24		10/1/2001	9.52	8.38
MW-24		1/16/2002	6.66	11.24
MW-24		4/8/2002	7.33	10.57
MW-24		7/3/2002	8.68	9.22
MW-24		10/7/2002	16.73	1.17
MW-24		1/16/2003	7.29	10.61
MW-24		4/21/2003	6.95	10.95
MW-24		10/6/2003	11.14	6.76
MW-24		4/2/2004	7.61	10.29
MW-24		7/13/2005	8.68	9.22
MW-24		2/7/2006	6.97	10.93
MW-24		7/10/2006	8.26	9.64
MW-24		1/8/2007	7.71	10.19
MW-24		7/16/2007	6.66	11.24
MW-24		1/23/2008	7.36	10.54
MW-24		6/17/2008	7.57	10.33
MW-24		1/13/2009	7.04	10.86
MW-24		7/8/2009	8.65	9.25
MW-24		1/26/2010	6.90	11.00
MW-24		7/28/2010	8.26	9.64
MW-24		1/21/2011	5.90	12.00
MW-24		7/15/2011	7.82	10.08
MW-24		1/24/2012	7.50	10.40
MW-24		7/19/2012	7.66	10.24
MW-24		1/23/2013	7.35	10.55
MW-24		7/18/2013	4.12	New TOC
MW-24		1/31/2014	2.58	New TOC
MW-24		7/28/2014	3.15	New TOC
MW-24		2/9/2015	2.55	New TOC
MW-24		7/22/2020	4.21	New TOC

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-25	S, NET	7/2/2001	8.46	7.92
MW-25		10/1/2001	8.65	7.73
MW-25		1/16/2002	6.76	9.62
MW-25		4/8/2002	7.57	8.81
MW-25		7/3/2002	8.22	8.16
MW-25		10/7/2002	9.05	7.33
MW-25		1/16/2003	6.98	9.40
MW-25		4/21/2003	7.00	9.38
MW-25		10/6/2003	9.17	7.21
MW-25		4/2/2004	7.94	8.44
MW-25		7/13/2005	8.19	8.19
MW-25		2/7/2006	6.78	9.60
MW-25		7/10/2006	8.13	8.25
MW-25		1/8/2007	5.78	10.60
MW-25		7/16/2007	7.02	9.36
MW-25		1/23/2008	6.30	10.08
MW-25		6/17/2008	6.66	9.72
MW-25		1/13/2009	6.27	10.11
MW-25		7/8/2009	8.06	8.32
MW-25		1/26/2010	5.86	10.52
MW-25		7/28/2010	7.99	8.39
MW-25		1/21/2011	4.90	11.48
MW-25		7/15/2011	7.54	8.84
MW-25		1/24/2012	5.33	11.05
MW-25		7/19/2012	6.90	9.48
MW-25		1/23/2013	6.20	10.18
MW-25		7/18/2013	3.70	NEW TOC
MW-25		1/31/2014	1.32	NEW TOC
MW-25		7/28/2014	3.54	NEW TOC
MW-25		2/9/2015	2.02	NEW TOC
MW-25		7/22/2020	4.12	NEW TOC
MW-26	S, NET	7/2/2001	10.31	6.13
MW-26		10/1/2001	10.20	6.24
MW-26		1/16/2002	6.11	10.33
MW-26		4/8/2002	6.35	10.09
MW-26		7/3/2002	10.29	6.15
MW-26		10/7/2002	10.43	6.01
MW-26		1/16/2003	6.55	9.89
MW-26		4/21/2003	6.42	10.02
MW-26		10/6/2003	10.47	5.97
MW-26		4/2/2004	9.81	6.63
MW-26		7/13/2005	10.07	6.37
MW-26		2/7/2006	9.27	7.17
MW-26		7/10/2006	11.02	5.42
MW-26		1/8/2007	7.94	8.50
MW-26		7/16/2007	9.16	7.28
MW-26		1/23/2008	9.60	6.84
MW-26		6/17/2008	9.85	6.59
MW-26		1/13/2009	8.43	8.01
MW-26		7/8/2009	9.64	6.80
MW-26		1/26/2010	8.85	7.59
MW-26		7/28/2010	9.05	7.39
MW-26		1/21/2011	4.10	12.34
MW-26		7/15/2011	8.08	8.36
MW-26		1/23/2012	5.52	10.92
MW-26		1/23/2013	4.90	11.54
MW-26		7/18/2013	4.17	NEW TOC
MW-27	S, NET	7/2/2001	8.30	8.11
MW-27		10/1/2001	7.77	8.64
MW-27		1/17/2002	9.20	7.21
MW-27		4/8/2002	6.62	9.79
MW-27		7/3/2002	6.81	9.60
MW-27		10/7/2002	6.00	10.41
MW-27		1/16/2003	6.46	9.95
MW-27		4/21/2003	6.75	9.66
MW-27		10/6/2003	7.87	8.54
MW-27		4/2/2004	5.49	10.92
MW-27		7/13/2005	5.94	10.47
MW-27		2/7/2006	6.90	9.51
MW-27		7/10/2006	6.96	9.45
MW-27		1/8/2007	6.09	10.32
MW-27		7/16/2007	6.02	10.39
MW-27		1/23/2008	6.84	9.57
MW-27		6/17/2008	7.03	9.38
MW-27		Decommissioned 11/08		

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-28	NET	7/2/2001	9.98	6.65
MW-28		10/1/2001	10.35	6.28
MW-28		1/17/2002	8.67	7.96
MW-28		4/8/2002	9.01	7.62
MW-28		7/3/2002	10.52	6.11
MW-28		10/7/2002	11.72	4.91
MW-28		1/16/2003	6.46	10.17
MW-28		4/21/2003	9.45	7.18
MW-28		10/6/2003	9.62	7.01
MW-28		4/2/2004	10.15	6.48
MW-28		7/13/2005	10.25	6.38
MW-28		2/7/2006	7.61	9.02
MW-28		7/10/2006	12.71	3.92
MW-28		1/8/2007	6.78	9.85
MW-28		7/16/2007	10.51	6.12
MW-28		1/23/2008	9.12	7.51
MW-28		6/17/2008	10.00	6.63
		Decommissioned 11/08		
MW-29	NET	7/2/2001	8.44	7.52
MW-29		10/1/2001	8.75	7.21
MW-29		1/16/2002	7.36	8.6
MW-29		4/8/2002	7.75	8.21
MW-29		7/3/2002	9.06	6.90
MW-29		10/7/2002	10.21	5.75
MW-29		1/16/2003	5.92	10.04
MW-29		4/21/2003	7.05	8.91
MW-29		10/6/2003	7.60	8.36
MW-29		4/2/2004	8.60	7.36
MW-29		7/13/2005	8.56	7.40
MW-29		2/7/2006	5.94	10.02
MW-29		7/10/2006	11.27	4.69
MW-29		1/8/2007	5.08	10.88
MW-29		7/16/2007	8.54	7.42
MW-29		1/23/2008	7.41	8.55
MW-29		6/17/2008	8.50	7.46
MW-29		1/13/2009	6.03	9.93
MW-29		7/8/2009	9.64	6.32
MW-29		1/26/2010	5.12	10.84
MW-29		7/28/2010	10.05	5.91
MW-29		1/21/2011	3.84	12.12
MW-29		7/15/2011	5.63	10.33
MW-29		1/23/2012	NR	----
		Well damaged		
MW-29R		7/28/2015	7.64	No TOC Survey
MW-29R		1/19/2016	11.50	No TOC Survey
MW-29R		7/14/2016	4.92	No TOC Survey
MW-29R		1/26/2017	3.18	No TOC Survey
MW-29R		7/20/2017	5.65	No TOC Survey
MW-29R		2/8/2018	1.92	No TOC Survey
MW-29R		8/1/2018	3.90	No TOC Survey
MW-29R		1/29/2019	3.61	No TOC Survey
MW-29R		7/10/2019	5.87	No TOC Survey
MW-29R		2/3/2020	3.06	No TOC Survey
MW-29R		7/22/2020	3.15	No TOC Survey
MW-30	NET	7/2/2001	7.95	7.95
MW-30		10/1/2001	13.29	2.61
MW-30		1/16/2002	9.06	6.84
MW-30		4/8/2002	9.09	6.81
MW-30		7/3/2002	11.70	4.20
MW-30		10/7/2002	12.87	3.03
MW-30		1/16/2003	5.92	9.98
MW-30		4/21/2003	11.07	4.83
MW-30		10/6/2003	6.08	9.82
MW-30		4/2/2004	11.38	4.52
MW-30		7/13/2005	11.51	4.39
MW-30		2/7/2006	7.25	8.65
MW-30		7/10/2006	15.37	0.53
MW-30		1/8/2007	6.37	9.53
MW-30		7/16/2007	13.18	2.72
MW-30		1/23/2008	7.21	8.69
MW-30		6/17/2008	13.11	2.79
MW-30		1/13/2009	8.40	7.50
MW-30		7/8/2009	NR	----
MW-30		1/26/2010	8.37	7.53
MW-30		7/28/2010	10.17	5.73
MW-30		1/21/2011	6.12	9.78
MW-30		7/15/2011	11.28	4.62
MW-30		1/24/2012	8.00	7.90
MW-30		7/19/2012	13.90	2.00
MW-30		1/23/2013	8.85	7.05
MW-30		7/18/2013	6.65	NEW TOC
MW-30		1/31/2014	5.22	NEW TOC
MW-30		7/28/2014	11.87	NEW TOC
MW-30		2/9/2015	4.66	NEW TOC

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-30		7/28/2015	13.31	NEW TOC
MW-30		1/19/2016	3.41	NEW TOC
MW-30		7/14/2016	6.79	NEW TOC
MW-30		1/26/2017	6.97	NEW TOC
MW-30		7/20/2017	7.24	NEW TOC
MW-30		2/8/2018	3.63	NEW TOC
MW-30		8/1/2018	5.37	NEW TOC
MW-30		2/8/2018	3.63	NEW TOC
MW-30		8/1/2018	5.37	NEW TOC
MW-30		1/15/2019	2.81	NEW TOC
MW-30		7/10/2019	8.33	NEW TOC
MW-30		2/3/2020	1.50	NEW TOC
MW-30		7/22/2020	8.90	NEW TOC
MW-31	NET	7/2/2001	11.45	6.96
MW-31		10/1/2001	15.77	2.64
MW-31		1/16/2002	12.32	6.09
MW-31		4/8/2002	12.36	6.05
MW-31		7/3/2002	15.00	3.41
MW-31		10/7/2002	16.61	1.80
MW-31		1/16/2003	8.61	9.80
MW-31		4/21/2003	13.16	5.25
MW-31		10/6/2003	9.08	9.33
MW-31		4/2/2004	14.63	3.78
MW-31		7/13/2005	14.20	4.21
MW-31		2/7/2006	10.20	8.21
MW-31		7/10/2006	18.57	-0.16
MW-31		1/8/2007	9.06	9.35
MW-31		7/16/2007	18.76	-0.35
MW-31		1/23/2008	12.58	5.83
MW-31		6/17/2008	16.24	2.17
MW-31		1/13/2009	11.34	7.07
MW-31		7/8/2009	18.93	-0.52
MW-31		1/26/2010	10.97	7.44
MW-31		7/28/2010	13.10	5.31
MW-31		1/21/2011	9.69	8.72
MW-31		7/15/2011	14.31	4.10
MW-31		1/24/2012	11.95	6.46
MW-31		7/19/2012	17.55	0.86
MW-31		1/23/2013	12.05	6.36
MW-31		7/18/2013	14.72	NEW TOC
MW-31		1/31/2014	9.35	NEW TOC
MW-31		7/28/2014	11.86	NEW TOC
MW-31		2/9/2015	7.38	NEW TOC
MW-31		7/28/2015	14.47	NEW TOC
MW-31		1/19/2016	5.29	NEW TOC
MW-31		7/14/2016	10.30	NEW TOC
MW-31		1/26/2017	8.31	NEW TOC
MW-31		7/20/2017	11.80	NEW TOC
MW-31		2/8/2018	5.80	NEW TOC
MW-31		8/1/2018	7.60	NEW TOC
MW-31		1/15/2019	3.96	NEW TOC
MW-31		7/10/2019	11.13	NEW TOC
MW-31		2/3/2020	2.94	NEW TOC
MW-31		7/22/2020	12.35	NEW TOC
MW-32	INT	7/2/2001	4.62	17.55
MW-32		10/1/2001	5.55	16.62
MW-32		1/17/2002	2.69	19.48
MW-32		4/8/2002	2.80	19.37
MW-32		7/3/2002	4.54	17.63
MW-32		10/7/2002	4.85	17.32
MW-32		1/16/2003	3.72	18.45
MW-32		4/21/2003	2.54	19.63
MW-32		10/6/2003	4.52	17.65
MW-32		4/2/2004	5.10	17.07
		Decommissioned 1/05		

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-33	BG	7/2/2001	48.54	25.76
MW-33		10/1/2001	NR	NR
MW-33		1/16/2002	48.34	25.96
MW-33		4/8/2002	48.16	26.14
MW-33		7/3/2002	48.43	25.87
MW-33		10/7/2002	NR	----
MW-33		1/17/2003	49.06	25.24
MW-33		4/21/2003	48.67	25.63
MW-33		10/6/2003	47.20	27.10
MW-33		4/2/2004	49.25	25.05
MW-33		7/13/2005	NR	----
MW-33		2/7/2006	NR	----
MW-33		7/10/2006	NR	----
MW-33		1/8/2007	NR	----
MW-33		7/16/2007	NR	----
MW-33		1/23/2008	47.97	26.33
MW-33		6/17/2008	NR	----
MW-33		1/13/2009	48.15	26.15
MW-33		7/8/2009	NR	----
MW-33		1/26/2010	48.37	25.93
MW-33		7/28/2010	48.02	26.28
MW-33		1/21/2011	NR	----
MW-33		7/15/2011	46.92	27.38
MW-33		1/23/2012	47.56	26.74
MW-33		7/19/2012	46.84	27.46
MW-33		1/23/2013	46.05	28.25
MW-33		7/18/2013	46.50	27.80
MW-33		2/1/2014	NR	----
MW-33		7/25/2014	46.60	27.70
MW-33		2/10/2015	46.33	27.97
MW-34	S, BG	7/2/2001	17.18	57.19
MW-34		10/1/2001	17.59	56.78
MW-34		1/16/2002	16.78	57.59
MW-34		4/8/2002	16.46	57.91
MW-34		7/3/2002	16.74	57.63
MW-34		10/7/2002	17.17	57.20
MW-34		1/16/2003	17.04	57.33
MW-34		4/21/2003	16.92	57.45
MW-34		10/6/2003	17.76	56.61
MW-34		4/2/2004	16.97	57.40
MW-34		7/13/2005	17.31	57.06
MW-34		2/7/2006	17.04	57.33
MW-34		7/10/2006	17.28	57.09
MW-34		1/8/2007	16.84	57.53
MW-34		7/16/2007	16.63	57.74
MW-34		1/23/2008	16.42	57.95
MW-34		6/17/2008	NR	----
MW-34		1/13/2009	16.50	57.87
MW-34		7/8/2009	NR	----
MW-34		1/26/2010	16.82	57.48
MW-34		7/28/2010	16.71	57.59
MW-34		1/21/2011	NR	----
MW-34		7/15/2011	16.15	58.15
MW-34		1/23/2012	16.61	57.69
MW-34		7/19/2012	16.24	58.06
MW-34		1/23/2013	15.85	58.45
MW-34		7/18/2013	16.15	58.15
MW-34		2/1/2014	16.45	57.85
MW-34		7/25/2014	16.60	57.70
MW-34		2/10/2015	16.17	58.13
MW-35	BG	7/2/2001	48.43	24.82
MW-35		10/1/2001	48.89	24.36
MW-35		1/16/2002	48.32	24.93
MW-35		4/8/2002	48.11	25.14
MW-35		7/3/2002	48.46	24.79
MW-35		10/7/2002	48.85	24.40
MW-35		1/16/2003	48.89	24.36
MW-35		4/21/2003	48.77	24.48
MW-35		10/6/2003	49.38	23.87
MW-35		4/2/2004	49.24	24.01
MW-35		7/13/2005	49.53	23.72
MW-35		2/7/2006	49.06	24.19
MW-35		7/10/2006	49.02	24.23
		Abandoned, 2006		

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-36	POC	7/2/2001	9.79	1.13
MW-36		10/1/2001	9.98	0.94
MW-36		1/16/2002	5.10	5.82
MW-36		4/8/2002	4.92	6.00
MW-36		7/3/2002	6.95	3.97
MW-36		10/7/2002	9.11	1.81
MW-36		1/16/2003	1.78	9.14
MW-36		4/21/2003	8.10	2.82
MW-36		10/6/2003	9.97	0.95
MW-36		4/2/2004	7.46	3.46
MW-36		7/13/2005	5.89	5.03
MW-36		2/7/2006	2.68	8.24
MW-36		7/10/2006	12.40	-1.48
MW-36		1/8/2007	1.07	9.85
MW-36		7/16/2007	6.82	4.10
MW-36		1/23/2008	3.53	7.39
MW-36		6/17/2008	7.98	2.94
MW-36		1/13/2009	3.34	7.58
MW-36		7/8/2009	11.44	-0.52
MW-36		1/26/2010	3.14	7.78
MW-36		7/28/2010	5.65	5.27
MW-36		1/21/2011	3.75	7.17
MW-36		7/15/2011	7.86	3.06
MW-36		1/23/2012	4.26	6.66
MW-36		7/19/2012	7.33	3.59
MW-36		1/23/2013	4.62	6.30
MW-36		7/18/2013	3.45	7.47
MW-36		1/31/2014	4.03	6.89
MW-36		7/28/2014	8.00	2.92
MW-36		2/10/2015	0.70	10.22
MW-36		7/29/2015	5.83	5.09
MW-36		1/22/2016	3.01	7.91
MW-36		7/14/2016	10.39	0.53
MW-36		2/1/2017	4.71	6.21
MW-36		7/20/2017	10.05	0.87
MW-36		2/9/2018	3.40	7.52
MW-36		8/1/2018	9.04	1.88
MW-36		1/29/2019	1.70	9.22
MW-36		7/10/2019	9.11	1.81
MW-36		2/4/2020	1.94	8.98
MW-36		7/23/2020	10.01	0.91
MW-37	POC	7/2/2001	12.41	1.87
MW-37		10/1/2001	13.77	0.51
MW-37		1/16/2002	8.30	5.98
MW-37		4/8/2002	7.99	6.29
MW-37		7/3/2002	10.12	4.16
MW-37		10/7/2002	12.55	1.73
MW-37		1/16/2003	5.27	9.01
MW-37		4/21/2003	12.10	2.18
MW-37		10/6/2003	12.89	1.39
MW-37		4/2/2004	10.82	3.46
MW-37		7/13/2005	9.02	5.26
MW-37		2/7/2006	5.79	8.49
MW-37		7/10/2006	16.15	-1.87
MW-37		1/8/2007	4.50	9.78
MW-37		7/16/2007	10.32	3.96
MW-37		1/23/2008	5.90	8.38
MW-37		6/17/2008	12.38	1.90
MW-37		1/13/2009	5.55	8.73
MW-37		7/8/2009	15.27	-0.99
MW-37		1/26/2010	6.77	7.51
MW-37		7/28/2010	8.82	5.46
MW-37		1/21/2011	7.13	7.15
MW-37		7/15/2011	11.94	2.34
MW-37		1/23/2012	NR	----
MW-37		7/29/2015	2.56	11.72
MW-37		1/22/2016	6.08	8.20
MW-37		7/14/2016	14.05	0.23
MW-37		2/1/2017	10.38	3.90
MW-37		7/20/2017	13.13	1.15
MW-37		2/8/2018	7.25	7.03
MW-37		8/2/2018	11.55	2.73
MW-37		1/29/2019	4.50	9.78
MW-37		7/10/2019	11.52	2.76
MW-37		2/4/2020	5.72	8.56
MW-37		7/23/2020	10.44	3.84

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-38	POC	7/2/2001	10.16	3.46
MW-38		10/1/2001	12.49	1.13
MW-38		1/16/2002	7.91	5.71
MW-38		4/8/2002	7.18	6.44
MW-38		7/3/2002	9.71	3.91
MW-38		10/7/2002	9.34	4.28
MW-38		1/16/2003	5.00	8.62
MW-38		4/21/2003	11.25	2.37
MW-38		10/6/2003	5.55	8.07
MW-38		4/2/2004	10.19	3.43
MW-38		7/13/2005	8.47	5.15
MW-38		2/7/2006	5.59	8.03
MW-38		7/10/2006	15.25	-1.63
MW-38		1/8/2007	4.17	9.45
MW-38		7/16/2007	9.12	4.50
MW-38		1/23/2008	6.75	6.87
MW-38		6/17/2008	12.82	0.80
MW-38		1/13/2009	8.06	5.56
MW-38		7/8/2009	14.34	-0.72
MW-38		1/26/2010	6.27	7.35
MW-38		7/28/2010	8.43	5.19
MW-38		1/21/2011	6.53	7.09
MW-38		7/15/2011	10.85	2.77
MW-38		1/24/2012	5.53	8.09
MW-38		7/19/2012	10.58	3.04
MW-38		1/23/2013	6.85	6.77
MW-38		7/18/2013	13.00	0.62
MW-38		1/31/2014	9.33	4.29
MW-38		7/28/2014	13.86	-0.24
MW-38		2/9/2015	2.82	10.80
MW-38		7/28/2015	13.26	0.36
MW-38		1/22/2016	5.78	7.84
MW-38		7/14/2016	12.23	1.39
MW-38		2/1/2017	11.13	2.49
MW-38		7/20/2017	13.02	0.60
MW-38		2/9/2018	5.99	7.63
MW-38		7/20/2017	13.02	0.60
MW-38		2/9/2018	5.99	7.63
MW-38		8/2/2018	12.06	1.56
MW-38		1/29/2019	5.30	8.32
MW-38		7/10/2019	8.33	5.29
MW-38		2/5/2020	5.33	8.29
MW-38		7/23/2020	12.75	0.87
MW-39	POC	7/2/2001	6.91	6.99
MW-39		10/1/2001	9.02	4.88
MW-39		1/16/2002	6.69	7.21
MW-39		4/8/2002	7.48	6.42
MW-39		7/3/2002	8.72	5.18
MW-39		10/7/2002	9.90	4.00
MW-39		1/16/2003	6.31	7.59
MW-39		4/21/2003	7.85	6.05
MW-39		10/6/2003	10.44	3.46
MW-39		4/2/2004	8.34	5.56
MW-39		7/13/2005	8.46	5.44
MW-39		2/7/2006	5.91	7.99
MW-39		7/10/2006	9.67	4.23
MW-39		1/8/2007	5.02	8.88
MW-39		7/16/2007	7.49	6.41
MW-39		1/23/2008	7.47	6.43
MW-39		6/17/2008	8.63	5.27
MW-39		1/13/2009	6.08	7.82
MW-39		7/8/2009	10.35	3.55
MW-39		1/26/2010	5.13	8.77
MW-39		7/28/2010	8.05	5.85
MW-39		1/21/2011	5.00	8.90
MW-39		7/15/2011	7.43	6.47
MW-39		1/24/2012	5.23	8.67
MW-39		7/19/2012	10.28	3.62
MW-39		1/23/2013	6.85	7.05
MW-39		7/18/2013	NR	--
MW-39		1/31/2014	NR	--
MW-39		7/25/2014	NR	--
MW-39R		7/28/2015	12.68	No TOC Survey
MW-39R		1/19/2016	9.23	No TOC Survey
MW-39R		7/15/2016	11.79	No TOC Survey
MW-39R		2/1/2017	8.44	No TOC Survey
MW-39R		7/20/2017	12.41	No TOC Survey
MW-39R		2/8/2018	7.68	No TOC Survey
MW-39R		7/31/2018	10.60	No TOC Survey
MW-39R		1/29/2019	5.90	No TOC Survey
MW-39R		7/10/2019	10.28	No TOC Survey
MW-39R		2/3/2020	3.84	No TOC Survey
MW-39R		7/22/2020	7.53	No TOC Survey

Table 2
Ground Water Elevations
Everett Landfill

Well	Type	Date	Water Depth	Water Elevation
MW-40	BGM	7/19/2005	14.86	-0.65
MW-40		2/7/2006	7.75	6.46
MW-40		7/10/2006	9.84	4.37
MW-40		1/8/2007	6.38	7.83
MW-40		7/16/2007	15.23	-1.02
MW-40		1/23/2008	8.01	6.20
		Decommissioned 2/08		
MW-41	BGM	7/19/2005	16.40	-2.01
MW-41		2/7/2006	7.98	6.42
MW-41		7/10/2006	9.68	4.72
MW-41		1/8/2007	6.83	7.57
MW-41		7/16/2007	14.71	-0.32
		Decommissioned 2/08		
MW-42	BGM	7/19/2005	1.25	16.04
MW-42		2/7/2006	1.84	15.45
MW-42		7/10/2006	3.80	13.49
MW-42		1/8/2007	1.52	15.77
MW-42		7/16/2007	3.24	14.49
MW-42		1/23/2008	1.40	15.89
		Decommissioned 2/08		

NOTES:

NR = no reading, well decommissioned, damaged, or not located

S = shallow well (all others are in deep aquifer)

INT = Interior, well located in interior of site

BG =Upgradient background well
BGM= background metals well
POC = deep aquifer point of compliance monitoring well