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Centric Partners LLC
2921 Eastlake Avenue E.
Seattle, WA 98109

Attention: Mr. Michael Pollard

Subject: 2nd Quarter 2020 Groundwater Monitoring Results
104-124 12th Avenue & 1209 E. Fir Street
Seattle, Washington

Dear Mr. Pollard:

As you have authorized, **Whitman Environmental Sciences, (WES)** has conducted additional groundwater sampling at the above referenced site in Seattle, Washington. Figure 1 shows the site location and surrounding area. This letter summarizes the sampling and results of laboratory testing on the groundwater samples taken on May 19th 2020.

The findings indicate that samples from four of the twenty sampled wells contain the chlorinated solvent vinyl chloride and one well contained benzene, gasoline-range and diesel-range total petroleum hydrocarbons at concentrations that exceed current Washington State cleanup criteria under the Model Toxics Control Act (MTCA), Chapter 173-340 WAC. No other organic compounds exceeded MTCA cleanup levels in any of the samples. Eight of the samples were analyzed for concentrations of dissolved and total arsenic. The findings are consistent with area-wide background arsenic concentrations in groundwater. A discussion of area-wide arsenic conditions is included in this report.

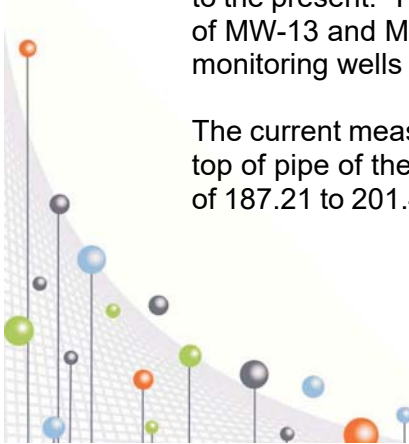
Groundwater Monitoring

All monitoring wells on and adjacent to the subject property (a total of twenty wells) were purged and sampled as part of this monitoring event. Figure 2 shows the approximate locations of the wells in relation to the features of the property.

Groundwater Level Measurements

As part of monitoring, WES measured the depth to groundwater in the on-site monitoring wells. The measurements were obtained after the wells caps had been removed for a period of time to allow water levels to stabilize and before any of the wells were purged of standing groundwater. Table 1 summarizes the top-of-pipe elevation for each well, the depth to groundwater and the relative elevation of groundwater at each well during this and all prior monitoring events from October 2017 to the present. Top of pipe elevations were determined by a licensed surveyor, with the exception of MW-13 and MW-15. These well elevations were surveyed by WES relative to multiple nearby monitoring wells with known elevations.

The current measurements show that groundwater was at a depth of 2.18 to 15.05 feet below the top of pipe of the monitoring wells. The depths represent groundwater elevations within a range of 187.21 to 201.46 feet. Most measured water levels are within the range of prior measurements



at the site. The water levels in monitoring wells MW-1S, MW-11, MW-15 and GEO B-7 are slightly higher than any prior measurements, which most likely reflects seasonal variations.

There is a significant difference in water elevation from the highest elevations in the northwest to lowest levels in the southeast, indicating a relatively strong overall gradient of 0.04 foot/foot to the southeast across most of the site. Between nested wells MW-1D and MW-1S, there is an upward vertical gradient of 0.035 ft/ft.

Figure 2 shows the inferred contour of the groundwater surface and anticipated direction of migration for the current measurements. The inferred gradient of groundwater migration are consistent with that interpreted from prior measurements from 2017 to the present.

Groundwater Sampling

Samples were obtained using peristaltic pumps equipped with dedicated polyethylene tubing in each well. Each well was purged of at least three times the volume of standing water prior to sampling; volumes ranging from one to 12 gallons. Field measurements of pH, temperature and conductivity were used to evaluate when stabilized conditions were reached in the pump discharge water.

Wells MW-3, MW-5, MW-12, MW-14 and MW-15 can pump dry after a limited volume and have moderate recharge rates. Each of these wells were pumped repeatedly to obtain representative samples of fresh recharge water and the total volume removed ranged from one to four gallons from each well.

Samples were taken following proper environmental sampling techniques and protocols. Samples were taken directly from the polyethylene pump tubing at a low flow rate and were placed in laboratory prepared bottles, sealed, chilled and held under chain of custody until delivered to the laboratory. The samples were submitted to Friedman & Bruya, Inc., a Washington State accredited laboratory, for testing. Samples for dissolved arsenic were filtered through 0.45 micron single-use filters in the field, before preservation.

Each sample was analyzed by Washington accepted method NWTPH-G and NWTPH-D (extended) for total petroleum hydrocarbons (TPH) in the gasoline, diesel and motor oil ranges, respectively. All samples were also analyzed for a list of 62 individual volatile organic compounds by EPA Method 8260C. The tested compounds are common solvents and/or organic compounds associated with petroleum. Samples from monitoring wells MW-1, MW-1D, MW-1S, MW-6, MW-8, MW-10, MW-11 and MW-12 were analyzed for total and dissolved arsenic.

All laboratory testing was conducted with reporting limits suitable for comparison with regulatory criteria. All laboratory quality assurance/quality control data is included and meets the analytical requirements of this assessment.

Laboratory Analytical Results

The results of laboratory testing and Washington State cleanup criteria are summarized in Table 2 and illustrated in Figure 3. The laboratory reports of the analytical results are included in Appendix A. The groundwater samples from monitoring wells MW-2, MW-4, MW-7, MW-13 and MW-15 contained no detectable concentrations of any of the analyzed parameters. Samples from wells MW-3, and GEO B-8 contained only a slightly elevated concentration of diesel range

petroleum hydrocarbons. These detections were flagged by the laboratory as not matching their laboratory standard for diesel. This typically indicates the detected hydrocarbons represent degraded petroleum from another analytical range, or non-petroleum organic material.

Samples from monitoring wells MW-1, MW-1S, MW-11 and MW-14 contained concentrations of vinyl chloride at reported concentrations of 0.21 to 0.47 ug/l (units equivalent to parts per billion (ppb)). Vinyl chloride is most commonly encountered as a daughter product from the breakdown of tetrachloroethene (PCE) in the environment. Because of its carcinogenic properties, vinyl chloride has a very low MTCA Method A cleanup level of 0.20 ug/l under Washington regulations. The reported concentrations found on site exceed the MTCA groundwater cleanup level.

Monitoring wells MW-1, MW-5, MW-6, MW-11, and MW-14, GEO B-7 and GEO B-9 contained low but detectable concentrations of other chlorinated compounds, primarily cis-1,2 dichloroethene, another daughter product of the breakdown of PCE. Cis-1,2 dichloroethene was detected in these wells at concentrations ranging from 1.0 to 4.5 ug/l, below the MTCA Method B groundwater standard formula value of 16 ug/l for this compound. The samples from monitoring wells MW-5 and GEO B-7 contained trichloroethene (TCE) at 2.8 ug/l and 1.8 ug/l, respectively. The sample from monitoring well MW-6 contained PCE at 1.1 ug/l. Both PCE and TCE have MTCA Method A groundwater cleanup levels of 5 ug/l. No other chlorinated compounds were detected in any sample.

Samples from monitoring wells MW-8 and MW-9, in the northwestern part of the property where a former gas station had operated, found gasoline related compounds. The sample from MW-8 contained 700 ug/l of gasoline-range organics (GRO) and 96 ug/l of diesel-range organics (DRO), as well as low but detectable concentrations of benzene (0.52 ug/l), ethylbenzene (3.2 ug/l), xylenes (69 ug/l), 1,2,4-trimethylbenzene (26 ug/l) and 1,3,5-trimethylbenzene (20 ug/l). All of the reported concentrations are below their respective MTCA Method A or Method B cleanup levels.

The sample from monitoring well MW-9 contained a reported concentration of 2,100 ug/l of GRO, and 1,200 ug/l of DRO, as well as 290 ug/l of motor oil range organics (MRO). Both the GRO and DRO concentrations exceed the MTCA Method A cleanup levels of 800 ug/l and 500 ug/l, respectively. That sample also contained concentrations of benzene (5.5 ug/l), toluene (2.3 ug/l), ethylbenzene (17 ug/l), xylenes (5 ug/l), and other volatile organic compounds. The reported benzene exceeds the MTCA Method A groundwater cleanup level of 5 ug/l. None of the other detections exceed MTCA Method A or B groundwater cleanup levels.

All of the reported DRO and MRO concentrations were flagged by the laboratory as not matching their laboratory standards for diesel or oil. This typically indicates the detected hydrocarbons represent degraded petroleum from another analytical range or non-petroleum organic material that may be naturally occurring.

Comparison to Prior Sampling

The reported detections are relatively similar to previous groundwater sampling conducted during our prior site investigations and periodic monitoring. Table 3 summarizes the groundwater sample analytical results from our prior monitoring events along with the current data. Notable differences between the current testing and prior rounds include MW-3, which in initial April 2017 testing contained low but detectable concentrations of acetone, naphthalene, vinyl chloride, 1,2,4-trimethylbenzene and 1,3,5-trimethylbenzene. Eight samples taken since October 2017, including the current round of testing, found no detectable concentrations of any of these analyzed parameters.

In earlier testing, monitoring well MW-5 was found to contain PCE, TCE, cis-1,2 dichloroethene and vinyl chloride. However, in four sampling events since July 2019, the concentrations have generally shown a reducing trend and the three most recent samples have not detected any compounds exceeding MTCA cleanup criteria.

ARSENIC IN GROUNDWATER

Off-Site Investigations

As part of our continued evaluations of the subject site, WES reviewed two reports summarizing investigations on adjoining property to the east, prepared for the Seattle Housing Authority as due diligence for purchase of the eastern King County warehouse (AMEC, 2017, PBS, 2019). Copies of these reports are included in WES' 2020 Source Investigation report, previously submitted. Both of these reports identified arsenic in groundwater samples taken from the areas to the east of the subject property. Three reconnaissance groundwater samples taken by AMEC in 2017 were analyzed for total arsenic and other metals. Arsenic was identified at concentrations ranging from 11.8 to 126 ug/l. One of the samples (identified as FIR-01) was taken from a location that would be considered downgradient of the subject property and contained 22.4 ug/l of arsenic, exceeding the MTCA Method A groundwater cleanup level of 5 ug/l. The two other samples, FIR-03 and FIR-06, were taken further to the north and would not be considered downgradient from the subject site. These contained 11.8 and 126 ug/l, respectively.

PBS' study in 2019 included six reconnaissance groundwater samples analyzed for arsenic and other metals. All six samples contained arsenic concentrations ranging from 11.6 to 63.4 ug/l, exceeding the MTCA Method A groundwater cleanup level. Four of the samples were taken from locations that would be considered downgradient of the subject property (BH01, BH02 and BH03), including shallow and deep samples boring BH03. The shallow sample contained 61.5 ug/l of arsenic while the deeper sample found 11.7 ug/l.

Reconnaissance groundwater samples are obtained during field drilling using temporary well screens that cannot typically be developed enough to reduce sediment in the samples. This sediment can impact the quality of samples and generally biases analytical results higher than would be found in a properly installed and developed monitoring well. This is particularly true for metals analyses, since acid is added to the samples as a preservative. The acid digests any sediment in the sample, which increases the metals concentrations before laboratory analysis.

On-Site Arsenic Sampling

To evaluate whether or not the off-site sampling was indicative of actual groundwater conditions, WES sampled seven monitoring wells for total arsenic, chromium and lead during a quarterly sampling round in December 2019. Six of the selected wells were in the southeastern parking lot, near the area where the AMEC and PBS off-site work had been conducted (wells MW-1, MW-1D, MW-1S, MW-10, MW-11 and MW-12). The samples were taken from developed wells that had been sampled multiple times, but still evidenced low levels of turbidity during sampling. The samples were analyzed by EPA Method 6020B. The analytical results are included in Table 3, a summary of all testing from the monitoring wells since 2017.

Arsenic was detected in all of the samples, at concentrations ranging from 4.53 to 16.5 ug/l. The samples from monitoring wells MW-1D, MW-10 and MW-12 detected no other analyzed parameters during that round of testing, so the arsenic concentrations appear to be unrelated to the known site petroleum or solvent contamination. An upgradient sample from monitoring well MW-8, in the northwestern part of the site contained 9.21 ug/l of arsenic. WES attributed the presence of arsenic to be from two factors; residual turbidity (sediment) in the samples that could not be completely cleared by purging, and area-wide arsenic in groundwater, evidenced by the upgradient sample from MW-8 and the off-site Foster Wheeler and PBS samples from locations that were cross gradient or unrelated to the subject property.

In particular, MW-1D is a well screened from a depth of 40 to 45 feet below the ground surface and demonstrates an upward vertical gradient compared to the adjacent shallow well MW-1S. This well represents a water-bearing zone that has not been impacted by overlying site contamination, yet contained arsenic at a concentration of 9.14 ug/l. MW-1D was sampled for total arsenic again during a 1st Quarter 2020 sampling round. That sample contained 10.3 ug/l, relatively similar to the December 2019 sample.

In this current 2nd Quarter 2020 sampling, the same seven wells were selected for analyses of both total and dissolved arsenic. One additional well (MW-6, in the southwestern part of the property) was also selected, to represent another portion of the site. The wells were purged and sampled with minimum disturbance and portions of the samples intended for analysis of dissolved arsenic were field filtered before preservation. Analytical results are included in Tables 2 and 3.

The samples contained dissolved arsenic ranging in concentration from 1.21 to 13.3 ug/l, with a mean of 7.05 ug/l. Total arsenic samples contained 1.65 to 12.5 ug/l, with a mean concentration of 7.12 ug/l. Notably, there was little difference between dissolved and total arsenic concentrations in the wells, suggesting there was very little turbidity in the samples. Three of the samples contained slightly higher concentrations in the dissolved samples versus the total arsenic samples, which could be the result of variability in well flow, sampling and laboratory analyses.

Five of the eight samples exceed the MTCA Method A groundwater cleanup criteria of 5 ug/l, a level below the Federal drinking water standards (Federal Maximum Contaminant Level (M.C.L.)) of 10 ug/l. The reported concentrations are within commonly encountered background levels for this area. WES reviewed background arsenic concentrations by two methods: publicly available references and review of surrounding area arsenic concentrations in groundwater samples.

Background Arsenic in Groundwater - References

Two commonly cited references for background arsenic concentrations are a United States Geological Survey (USGS) study of arsenic in groundwater resources of the United States (USGS, 2000), and a Washington Department of Ecology publication titled "*Natural Background Groundwater Arsenic Concentrations in Washington State*" (Ecology, 2018, Review Draft).

The USGS report "*A Retrospective Analysis on the Occurrence of Arsenic in Ground-Water Resources of the United States and Limitations in Drinking-Water-Supply Characterizations*" included samples from over 18,800 wells across the country and established six major physiographic provinces of relatively consistent geologic or groundwater characteristics. Among the conclusions of the report the authors found generally elevated arsenic concentrations in the

western United States, and much of the Puget Sound Basin is shown to have expected concentrations greater than 10ug/l. The Pacific Mountain System physiographic province (of which western Washington is part) was found to have a mean concentration of 9 ug/l based on samples from 2,401 wells that were not part of public water systems.

Ecology's report on natural background concentrations of arsenic reviewed the USGS report, along with other references. Using the USGS data set for Washington and ½ the detection limit for the samples reported as non-detects, Ecology calculated a 90th percentile (upper tolerance limit) of 10 ug/l as a statewide background.

Most of Ecology's report is based on public water supply wells throughout the state. It divides the state into seven areas or watersheds, one of which is the Puget Sound Lowlands. The report concludes a natural background concentration of 8.0 ug/l (90th percentile) is typical in the Puget Sound Basin, based on 2,790 samples, with detected concentrations ranging from 0.8 to 76 ug/l. The data set included about 50% of the samples reporting no detectable arsenic, at varying detection limits. The mean concentration of the subject site samples falls below this natural background concentration and is within the range of concentrations used in Ecology's analysis.

The report found no correlation between well depth and arsenic concentration, or impacts that could be attributed to soil contamination from the Tacoma Smelter Plume. One of the key findings of the study was the higher levels of groundwater arsenic within the Puget Sound region. The higher levels are likely an artifact of deeper and older reduced groundwater, likely the result of organic matter microbial oxidation. This may be in part related to this area's glacial sediments enriched in organic matter. The report found that in areas of higher naturally occurring arsenic levels, the key variables are typically: 1) groundwater geochemistry (reduced conditions), and 2) increased soil organic matter/content. These conditions are likely present on the subject site, where organic soils have been observed.

The City of Seattle relies on surface water for public water supplies, versus wells. The data distribution used by Ecology for their report has few (or no) data points within Seattle or east-side areas that rely on Seattle utilities for water supplies. To review data more localized to the subject site, WES obtained a data set from Ecology's Environmental Information Management System (EIM), discussed below.

EIM Data Review

Ecology's EIM data was reviewed for groundwater arsenic information in the surrounding area. Using on-line map-based search tools, an area was defined generally representing the Seattle neighborhood of Capitol Hill and Beacon Hill, limited by the approximate latitude and longitude coordinates in Table 4.

Table 4
Arsenic Data Search Area

Study Area Corner	Approximate Latitude	Approximate Longitude
NE	47.575	-122.305
NW	47.620	-122.335
SE	47.575	-122.305
SW	47.620	-122.335

The search area is shown in Figure 4. A spreadsheet of the data set from this area is included in Appendix B.

Within this area, 359 samples were identified from 19 different sites that had entered groundwater arsenic data into EIM. Of those, approximately 49% reported dissolved arsenic concentrations, while the remainder reported total arsenic. A review of the data found two samples with elevated detection limits of 500 mg/l (which did not detect arsenic). These two data points were rejected, but no other censoring was conducted for the following summary analysis.

Of the remaining 357 samples, 83 (23%) did not contain detectable arsenic, with reporting limits ranging from 1 to 5 ug/l. For the purposes of this review those samples were assigned a value of half the reported detection limit. The mean concentration of the complete data set is 10.35 ug/l. Reported detected values ranged from 0.108 to 244 ug/l.

There is little distinction between samples analyzed for total arsenic versus dissolved. A total of 182 samples had been tested for total arsenic, of which 62 (34%) did not contain detectable concentrations. The mean concentration of total arsenic was 10.26 ug/l. Reported detected values ranged from 0.108 to 81.4 ug/l. 175 samples had been tested for dissolved arsenic, of which 21 (12%) did not contain detectable concentrations. The mean concentration of dissolve arsenic data was 10.43 ug/l. Reported detected values ranged from 0.228 to 244 ug/l. The subject site data falls within these mean concentrations and is at the lower end of the range of data reported in EIM.

Arsenic Data Conclusions

Based on this review, the subject site appears to have arsenic concentrations in groundwater within the ranges found in local data, area-wide Puget Sound Basin data and the overall physiographic province.

Arsenic in groundwater can be influenced by reducing conditions, such as created by degradation of organic material or petroleum in the environment. At this site there does not appear to be a strong correlation with the known petroleum release in the northwestern part of the property. Monitoring well MW-8 is located in the pump island area of the former service station and has a history of samples evidencing elevated GRO, BTEX, and other petroleum compounds. The recent sample from this well contained 3.44 ug/l dissolved and 4.93 ug/l total arsenic. The December 2019 sample contained 9.21 ug/l total arsenic, consistent with other site samples. This area and the full zone of petroleum contamination will be excavated by redevelopment of the property, to a depth well below the petroleum releases.

Monitoring well MW-1D is the on-site well most likely to reflect native conditions, due to its depth and short screen interval in a deep water-bearing zone. Total arsenic concentrations measured in this well range from 9.14 to 10.3 ug/l, consistent with the findings of our review of surrounding area data.

The adjacent monitoring well MW-1S has slightly higher total and dissolved arsenic than MW-1D. This could reflect reducing environmental conditions in the shallow groundwater, in part due to organic material in fill soils throughout the central and southeastern part of the property and below the King County warehouses. Reducing conditions are evidenced by the presence of degradation products of PCE in the plume in the southeastern parking lot. The PCE degradation can occur as a result of the reducing condition, but does not cause it.

Recommendations

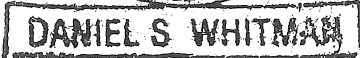
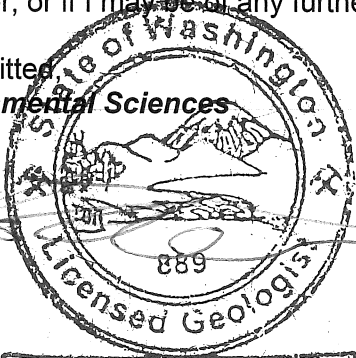

Groundwater sampling and analysis are important parts of compliance monitoring for this site. Additional quarterly monitoring will be conducted to evaluate areas of the site that have groundwater that consistently exceeds MTCA cleanup criteria and to monitor progress of remedial actions.

With the 2nd Quarter 2020 monitoring event, some wells have now demonstrated four or more consecutive quarters of results with no violations of MTCA groundwater cleanup criteria, or in some cases, no detections of the monitored parameters. Future monitoring can be limited to a sub-set of wells and analytical parameters. WES' April 6, 2020 Compliance Monitoring Plan (CMP) establishes the long-term monitoring requirements for the property. It may be appropriate to include analysis for arsenic in a select number of wells during future monitoring events to evaluate the response to in-situ groundwater remedial actions.

Closure

Thank you for the opportunity to be of service to you in this matter. If you have any questions regarding this letter, or if I may be of any further assistance, please feel free to contact me.

Respectfully submitted,
Whitman Environmental Sciences



Daniel S. Whitman
Principal

TABLES

- Table 1 - Summary of Groundwater Level Measurements
- Table 2 - Summary of 2nd Quarter 2020 Groundwater Sample Analytical Results
- Table 3 - Summary of 2017-2020 Groundwater Sample Analytical Results

FIGURES

- Figure 1 - Site Location Map
- Figure 2 - Monitoring Well Location Plan and Inferred Groundwater Contours
- Figure 3 - Groundwater Analytical Results
- Figure 4 - EIM Data Review Area

APPENDICES

- APPENDIX A - Laboratory Analytical Report - Friedman & Bruya, Inc.
- APPENDIX B - Spreadsheet of Arsenic in Groundwater Data from EIM

REFERENCES

- AEC, 2017 AEC Foster Wheeler, Phase II Environmental Site Assessment, 1215 East Fir Street, Seattle, Washington, Project No. PS1718052G, July 2017
- PBS, 2019 PBS Engineering & Environmental, Inc., Subsurface Investigation Report 1215 E Fir Street, Seattle, Washington, King County Assessor's Parcel 8061000045, Project No. 41593.000, September 24, 2019
- Ecology, 2018 Washington Department of Ecology "*Natural Background Groundwater Arsenic Concentrations in Washington State*", Ecology Publication 14-09-44 (May 2018 Review Draft),
- USGS, 2000 United States Geological Survey "*A retrospective analysis on the occurrence of arsenic in ground-water resources of the United States and limitations in drinking-water-supply characterizations*" (Water-Resources Investigations Report 99-4279). Reston, VA: U.S. Geological Survey, U.S. Department of the Interior.

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments	
MW-1	10/30/2017	200.26	-6.68	193.58	2" Well, 29' deep	
	11/7/2017		-6.37	193.89		
	6/14/2018		-6.28	193.98		
	9/7/2018		-7.55	192.71		
	12/6/2018		-8.15	192.11		
	2/25/2018		-5.34	194.92		
	7/22/2019		-6.90	193.36		
	9/3/2019		-7.54	192.72		
	10/3/2019		-6.77	193.49		
	12/4/2019		-6.47	193.79		
	3/17/2020		-5.72	194.54		
	5/19/2020		-6.08	194.18		
	MW-1S		10/30/2017	198.99		Not installed yet
11/7/2017		Not installed yet				
6/14/2018		Not installed yet				
9/7/2018		Not installed yet				
12/6/2018		Not installed yet				
2/25/2019		Not installed yet				
7/22/2019		Not installed yet				
9/3/2019		-6.72	192.27		2" Well, 15' deep, 10' screen	
10/3/2019		-6.10	192.89			
12/4/2019		-6.30	192.69			
3/17/2020		-6.08	192.91			
5/19/2020		-5.49	193.50			

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Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-1D	10/30/2017	199.02	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		Not installed yet		
	2/25/2019		Not installed yet		
	7/22/2019		Not installed yet		
	9/3/2019		-5.58	193.44	2" Well, 40' deep, 5 ft screen
	10/3/2019		-5.14	193.88	
	12/4/2019		-5.96	193.06	
	3/17/2020		-4.32	194.70	
	5/19/2020		-4.64	194.38	
	MW-2		10/30/2017	201.08	-5.94
11/7/2017		-5.78	195.30		
6/14/2018		-5.83	195.25		
9/7/2018		-7.29	193.79		
12/6/2018		-6.42	194.66		
2/25/2018		-6.71	194.37		
7/22/2019		-6.11	194.97		
9/3/2019		-6.62	194.46		
10/3/2019		-6.16	194.92		
12/4/2019		-5.85	195.23		
3/17/2020		-5.29	195.79		
5/19/2020		-5.48	195.60		

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<i>Monitoring Well</i>	<i>Date</i>	<i>Top of Pipe Elevation</i>	<i>Water Level Below T.O.P.</i>	<i>Water Elevation</i>	<i>Comments</i>
MW-3	10/30/2017	199.98	-4.81	195.17	3/4" Well, 10.6' deep
	11/7/2017		-5.09	194.89	
	6/14/2018		-4.80	195.18	
	9/7/2018		-5.86	194.12	
	12/6/2018		-4.15	195.83	
	2/25/2019		-3.71	196.27	
	7/22/2019		-5.15	194.83	
	9/3/2019		-5.64	194.34	
	10/3/2019		-5.43	194.55	
	12/4/2019		-5.13	194.85	
	3/17/2020		-4.52	195.46	
	5/19/2020		-4.71	195.27	
	MW-4		10/30/2017	199.36	
11/7/2017		-8.45	190.91		
6/14/2018		-8.32	191.04		
9/7/2018		-10.02	189.34		
12/6/2018		-7.98	191.38		
2/25/2019		-7.03	192.33		
7/22/2019		-8.68	190.68		
9/3/2019		-9.18	190.18		
10/3/2019		-8.72	190.64		
12/4/2019		-8.54	190.82		
3/17/2020		-7.93	191.43		
5/19/2020		-8.23	191.13		

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104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-5	10/30/2017	200.99	-6.53	194.46	3/4" Well, 12' deep
	11/7/2017		-6.22	194.77	
	6/14/2018		-6.10	194.89	
	9/7/2018		-7.47	193.52	
	12/6/2018		-5.69	195.30	
	2/25/2019		-4.95	196.04	
	7/22/2019		-6.76	194.23	
	9/3/2019		-7.13	193.86	
	10/3/2019		-6.50	194.49	
	12/4/2019		-6.11	194.88	
	3/17/2020		-5.32	195.67	
	5/19/2020		-5.76	195.23	
	MW-6		10/30/2017	200.27	
11/7/2017		-2.10	198.17		
6/14/2018		-2.82	197.45		
9/7/2018		-4.85	195.42		
12/6/2018		-2.07	198.20		
2/25/2019		-1.70	198.57		
7/22/2019		-3.23	197.04		
9/3/2019		-4.58	195.69		
10/3/2019		-3.15	197.12		
12/4/2019		-2.64	197.63		
3/17/2020		-2.02	198.25		
5/19/2020		-2.84	197.45		

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Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-7	10/30/2017	199.56	-2.41	197.15	1" Well, 11.5' deep
	11/7/2017		-1.70	197.86	
	6/14/2018		-2.66	196.90	
	9/7/2018		-4.34	195.22	
	12/6/2018		-1.69	197.87	
	2/25/2019		-2.32	197.24	
	7/22/2019		-3.18	196.38	
	9/3/2019		-4.07	195.49	
	10/3/2019		-2.97	196.59	
	12/4/2019		-2.27	197.29	
	3/17/2020		-1.65	197.91	
	5/19/2020		-2.18	197.38	
	MW-8 (Drilled as BN-7)		10/30/2017	216.51	
11/7/2017		-15.16	201.35		
6/28/2018		-15.27	201.24		
9/7/2018		-15.76	200.75		
12/6/2018		-14.92	201.59		
2/25/2019		-14.13	202.38		
7/22/2019		-15.41	201.10		
9/3/2019		-15.62	200.89		
10/3/2019		-15.41	201.10		
12/4/2019		-15.23	201.28		
3/17/2020		-14.62	201.89		
5/19/2020		-15.05	201.46		

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-9 (Drilled as BN-10)	10/30/2017	214.25	NM	--	2" Well, 25' deep
	11/7/2017		-13.14	201.11	
	7/13/2018		-13.99	200.26	
	9/7/2018		-14.71	199.54	
	12/6/2018		NM	--	
	2/25/2019		-12.07	202.18	
	7/22/2019		-14.04	200.21	
	9/3/2019		-14.46	199.79	
	10/3/2019		-13.79	200.46	
	12/4/2019		-13.91	200.34	
	3/17/2020		-12.73	201.52	
	5/19/2020		-13.21	201.04	
MW-10 (Drilled as SMW-01)	10/30/2017	196.88	Not installed yet		
	11/7/2017		-10.21	186.67	2" Well, 15' deep
	6/14/2018		-9.88	187.00	
	9/7/2018		-10.35	186.53	
	12/6/2018		NM	--	
	2/25/2019		NM	--	
	7/22/2019		-10.04	186.84	
	9/3/2019		-9.95	186.93	
	10/3/2019		-9.99	186.89	
	12/4/2019		-9.91	186.97	
	3/17/2020		-9.68	187.20	
	5/19/2020		-9.67	187.21	

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-11	10/30/2017	198.20	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		Not installed yet		
	2/25/2019		Not installed yet		
	7/22/2019		Not installed yet		
	9/3/2019		-6.54	191.66	2" Well, 15' deep
	10/3/2019		-5.74	192.46	
	12/4/2019		-5.57	192.63	
	3/17/2020		-5.73	192.47	
	5/19/2020		-5.26	192.94	
MW-12	10/30/2017	198.89	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		Not installed yet		
	2/25/2019		Not installed yet		
	7/22/2019		Not installed yet		
	9/3/2019		-7.69	191.20	2" Well, 15' deep
	10/3/2019		-6.25	192.64	
	12/4/2019		-5.72	193.17	
	3/17/2020		-4.57	194.32	
	5/19/2020		-5.20	193.69	

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-13	10/30/2017	201.80*	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		Not installed yet		
	2/25/2019		Not installed yet		
	7/22/2019		Not installed yet		
	9/3/2019		Not installed yet		2" Well, 20' deep
	10/3/2019		-7.55*	194.25*	* Prior to development
	12/4/2019		-7.58	194.22	
	3/17/2020		-6.96	194.84	
	5/19/2020		-7.08	194.72	
	MW-14		10/30/2017	203.09	Not installed yet
11/7/2017		Not installed yet			
6/14/2018		Not installed yet			
9/7/2018		Not installed yet			
12/6/2018		Not installed yet			
2/25/2019		Not installed yet			
7/22/2019		Not installed yet			
9/3/2019		-5.64	197.45		2" Well, 15' deep
10/3/2019		-4.42	198.67		
12/4/2019		-3.85	199.24		
3/17/2020		-4.86	198.23		
5/19/2020		-4.40	198.69		

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
MW-15	10/30/2017	200.85*	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		Not installed yet		
	2/25/2019		Not installed yet		
	7/22/2019		Not installed yet		
	9/3/2019		Not installed yet		
	10/3/2019		Not installed yet		
	12/4/2019		Not installed yet		
	4/2/2020		-7.12	193.73	
	5/19/2020		-5.67	195.18	
	GEO B-7		10/30/2017	201.12	Not installed yet
11/7/2017		Not installed yet			
6/14/2018		Not installed yet			
9/7/2018		Not installed yet			
12/6/2018		-5.70	195.42		2" Well, 20' deep
2/25/2019		-5.85	195.27		
7/22/2019		-5.91	195.21		
9/3/2019		NM	--		
10/3/2019		-6.42	194.70		
12/4/2019		-6.10	195.02		
3/17/2020		-5.81	195.31		
5/19/2020		-5.67	195.45		

TABLE 1
Summary of Groundwater Level Measurements
104 - 124 12th Avenue and 1209 E. Fir Street, Seattle, Washington

Monitoring Well	Date	Top of Pipe Elevation	Water Level Below T.O.P.	Water Elevation	Comments
GEO B-8	10/30/2017	214.79	Not installed yet		
	11/7/2017		Not installed yet		
	6/14/2018		Not installed yet		
	9/7/2018		Not installed yet		
	12/6/2018		-13.83	200.96	2" Well, 35' deep
	2/25/2019		NM	--	
	7/22/2019		-14.13	200.66	
	9/3/2019		-15.25	199.54	
	10/3/2019		-14.65	200.14	
	12/4/2019		-14.22	200.57	
	3/17/2020		-13.50	201.29	
	5/19/2020		-14.01	200.78	
	GEO B-9		10/30/2017	200.69	Not installed yet
11/7/2017		Not installed yet			
6/14/2018		Not installed yet			
9/7/2018		Not installed yet			
12/6/2018		-6.33	194.36		2" Well, 15' deep
2/25/2019		-5.37	195.32		
7/22/2019		-6.67	194.02		
9/3/2019		-7.57	193.12		
10/3/2019		-7.11	193.58		
12/4/2019		-6.60	194.09		
3/17/2020		-5.78	194.91		
5/19/2020		-6.17	194.52		

Table Notes:

NM - Not measured due to obstruction over well.

Top of Pipe elevations determined by site surveys, Terrane, Inc., November 2017 and August 2019.

MW-13 and MW-15 top of pipe elevations by WES, back-sighted to previously surveyed monitoring wells.

TABLE 2
2ND Quarter 2020 Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-1-GW	Pre-existing well in NE corner of 104 12 th parking lot	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.8 Vinyl Chloride: 0.47 ND (all other)	Arsenic: Dissolved: 10.8 Total: 9.49
MW-1S-GW	Shallow monitoring well in NE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area. Cluster with MW-1D	5/19/2020	Gasoline Range: ND (<100) Diesel: 51 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Vinyl Chloride: 0.21 ND (all other)	Arsenic: Dissolved: 13.3 Total: 12.5
MW-1D-GW	Deep monitoring well in NE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area. Cluster with MW-1S	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 10.1 Total: 9.65
MW-2-GW	Pre-existing well in NW corner of 104 12 th parking lot	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-3-GW	Pre-existing well adjacent to floor sump in SW corner of 104 12 th basement	5/19/2020	Gasoline Range: ND (<100) Diesel: 390 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-4-GW	Pre-existing well in SW corner of 104 12 th parking lot	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-5-GW	Pre-existing well along N side of 104 12 th parking lot	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.6 Trichloroethene: 2.8 ND (all other)	NA
MW-6-GW	Pre-existing well near NW corner of 104 12 th basement	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 4.5 Tetrachloroethene: 1.1 ND (all other)	Arsenic: Dissolved: 1.21 Total: 1.65

TABLE 2
2ND Quarter 2020 Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-7-GW (Drilled as WES-8)	In N corridor of 104 12 th basement, 25' W of WES-7	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-8-GW (Drilled as BN-7)	Near NW corner of 124 12 th property - former location of gas station pump island	5/19/2020	Gasoline Range: 700 Diesel: 96 ^x Motor Oil: ND (<250)	Benzene: 0.52 Toluene: ND (<1) Ethylbenzene: 3.2 Xylenes: 69	1,2,4-Trimethylbenzene: 26 1,3,5-Trimethylbenzene: 20 ND (all other)	Arsenic: Dissolved: 3.44 Total: 4.93
MW-9-GW (Drilled as BN-10)	NW gravel parking lot, S end of parking lot - likely S of former UST location	5/19/2020	Gasoline Range: 2,100 Diesel: 1,200^x Motor Oil: 290 ^x	Benzene: 5.5 Toluene: 2.3 Ethylbenzene: 17 Xylenes: 5	Hexane: 14 Isopropylbenzene: 74 n-Propylbenzene: 220 sec-Butylbenzene: 16 p-Isopropyltoluene: 1.5 ND (all other)	NA
MW-10 (Drilled as SES-1)	In SE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area.	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 5.18 Total: 5.41
MW-11	On E edge of 104 12 th parking lot property. Outside fence accessed through King County parking area.	5/19/2020	Gasoline Range: ND (<100) Diesel: 99 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.1 Vinyl chloride: 0.27 ND (all other)	Arsenic: Dissolved: 7.98 Total: 8.96
MW-12	In SE central part of 104 12 th parking lot property.	5/19/2020	Gasoline Range: ND (<100) Diesel: 130 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 4.39 Total: 4.40
MW-13	Sidewalk of Yesler Way, in front of garage door entry, adjacent to OS-4.	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-14	At base of slope in open Center part of property, outside tenant access to former dry cleaner space in 118 12 th bldg.	5/19/2020	Gasoline Range: ND (<100) Diesel: 110 ^x Motor Oil: ND (<250)	Benzene: 0.89 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.3 Vinyl chloride: 0.28 ND (all other)	NA

TABLE 2
2ND Quarter 2020 Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-15	In N central part of SE parking lot	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
Geotech B-7 (GEO B-7)	In NW part of parking lot E of 104 12 th , between previous borings MW-2 and MW-5	5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.5 Trichloroethene: 1.8 ND (all other)	NA
Geotech B-8 (GEO B-8)	In S central area of NW gravel parking lot, between borings BN-10, AEG-B-2 and AEG-B-4	5/19/2020	Gasoline Range: ND (<100) Diesel: 380 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
Geotech B-9 (GEO B-9)	In NE part of parking lot E of 104 12 th , between previous borings MW-5 and MW-1	5/19/2020	Gasoline Range: ND (<100) Diesel: 63 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.0 ND (all other)	NA
Washington State Model Toxics Control Act (MTCA) Groundwater Cleanup Criteria (ug/l)			Gasoline: 800 ^A (Benzene is present) Diesel or Motor Oil: 500 ^A (combined)	Benzene: 5 ^A Toluene: 1,000 ^A Ethylbenzene: 700 ^A Xylenes: 1,000 ^A	cis-1,2-Dichloroethene: 16 ^B Hexane: 480 ^B Isopropylbenzene: 800 ^B n-Propylbenzene: 800 ^B p-Isopropyltoluene: NV sec-Butylbenzene: 800 ^B Tetrachloroethene: 5 ^A Trichloroethene: 5 ^A Vinyl chloride: 0.2 ^A 1,2,4-Trimethylbenzene: 80 ^B 1,3,5-Trimethylbenzene: 80 ^B	Arsenic: 5 ^A Chromium: 50 ^A Lead: 15 ^A Iron: 11,000 ^B Manganese: 750 ^B

TABLE 2
2ND Quarter 2020 Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Table Notes:

ND (<XXX) - Parameter not detected at concentrations at or above the noted reporting limit.

NA - Sample not analyzed for the listed parameter.

Gasoline Range Total Petroleum Hydrocarbons by Method NWTPH-G.

Diesel and Motor Oil Range Total Petroleum Hydrocarbons by Method NWTPH-D(x).

^x - Indicates sample chromatogram does not resemble fuel standard used for analysis. Most likely carry over from gasoline range hydrocarbons, or non-petroleum organic matter.

BTEX compounds and other volatile organic compounds by EPA Method 8260C. All detected compounds summarized here. See laboratory report for full list of analyzed parameters.

Total Lead on unfiltered samples by EPA Method 6020B.

Dissolved and total Iron and Manganese as general water parameters as part of clean-up feasibility study. Analyses by EPA Method 6020B.

Dissolved and total arsenic by EPA Method 6020B. Total arsenic on unfiltered samples. Dissolved arsenic on field filtered samples using 0.45 micron single-use filters.

MTCA Groundwater cleanup criteria per Chapter 173-340-720 WAC. Method A criteria presented where available. Method B standard formula values shown where no Method A criteria available. Method B standard formula values from Dept. of Ecology 2020 Cleanup Levels and Risk Calculation (CLARC) database. NV indicates no value available from CLARC.

A - Method A listed

B - Method B Direct Contact

NV - No published value

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
Permanently Installed Monitoring Wells						
MW-1-GW	Pre-existing well in NE corner of 104 12 th parking lot	6/30/2017	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	Vinyl Chloride: 0.20 ND (all other)	NA
		10/30/2017	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Vinyl Chloride: 0.27 ND (all other)	NA
		12/6/2018	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Iron Dissolved: 247 Total: 562 Manganese Dissolved: 539 Total: 577
		7/22/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.1 Vinyl Chloride: 0.55 ND (all other)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.3 Vinyl Chloride: 0.73 ND (all other)	Arsenic: 13.0 Chromium: ND(<1) Lead: ND(<1)
		3/5/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.8 Vinyl Chloride: 0.47 ND (all other)	Arsenic: 10.8 Dissolved: 9.49 Total:

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-1S-GW	Shallow monitoring well in NE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area. Cluster with MW-1D	8/6/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Vinyl Chloride: 0.21 ND (all other)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: 72 ^x Motor Oil: 340	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Vinyl Chloride: 0.29 ND (all other)	Arsenic: 16.5 Chromium: 1.16 Lead: ND(<1)
		2/26/2020	Gasoline Range: ND (<100) Diesel: 100 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 51 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Vinyl Chloride: 0.21 ND (all other)	Arsenic: Dissolved: 13.3 Total: 12.5
MW-1D-GW	Deep monitoring well in NE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area. Cluster with MW-1S	8/6/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: 9.14 Chromium: ND(<1) Lead: ND(<1)
		3/3/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic 10.3 Lead: ND(<1)
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 10.1 Total: 9.65

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-2-GW	Pre-existing well in NW corner of 104 12 th parking lot	4/4/2017	Gasoline Range: NA Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		10/30/2017	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		7/22/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-3-GW	Pre-existing well adjacent to floor sump in SW corner of 104 12 th basement	4/3/2017	Gasoline Range: 110 Diesel: 400 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: 2.5 Ethylbenzene: ND (<1) Xylenes: 7.9	Acetone: 11 Naphthalene: 4.7 Vinyl Chloride: 0.34 1,2,4-Trimethylbenzene: 4.9 1,3,5-Trimethylbenzene: 1.1 ND (all other)	NA
		10/30/2017	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: 210 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		2/25/2019	Gasoline Range: ND (<100) Diesel: 400 ^x Motor Oil: ND (<300)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Lead: ND (<1)
		4/3/2019	Gasoline Range: ND (<100) Diesel: 420 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: 170 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Lead: ND (<1)
		12/4/2019	Gasoline Range: ND (<100) Diesel: 280 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: 210 Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 390 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-4-GW	Pre-existing well in SW corner of 104 12 th parking lot	4/5/2017	Gasoline Range: NA Diesel: 67 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		10/30/2017	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		12/9/2019	Gasoline Range: ND (<100) Diesel: 180 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-5-GW	Pre-existing well along N side of 104 12 th parking lot	4/5/2017	Gasoline Range: NA Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	Acetone: 12 ND (all other)	NA
		10/30/2017	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 10 Tetrachloroethene: 1.4 Trichloroethene: 9.1 Vinyl Chloride: 0.29 ND (all other)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 8.3 Tetrachloroethene: 1.3 Trichloroethene: 5.0 Vinyl Chloride: 0.25 ND (all other)	NA
		12/6/2018	Gasoline Range: NA Diesel: NA Motor Oil: NA	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 8.4 Tetrachloroethene: 2.1 Trichloroethene: 11 Vinyl Chloride: 0.37 ND (all other)	Iron Dissolved: 195 Total: 283 Manganese Dissolved: 478 Total: 472
		7/22/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 10 Tetrachloroethene: 1.1 Trichloroethene: 6.5 ND (all other)	Lead: ND (<1)
		12/4/2019	Gasoline Range: ND (<100) Diesel: 52 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.5 Tetrachloroethene: 1.3 Trichloroethene: 2.2 ND (all other)	NA
		3/5/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.4 Trichloroethene: 2.2 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.6 Trichloroethene: 2.8 ND (all other)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-6-GW	Pre-existing well near NW corner of 104 12 th basement	4/4/2017	Gasoline Range: NA Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: 1.2 Ethylbenzene: ND (<1) Xylenes: 5.5	cis-1,2-Dichloroethene: 1.3 1,2,4-Trimethylbenzene: 3.4 ND (all other)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 9.6 Chloroform: 1.1 Tetrachloroethene: 1.2 ND (all other)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 17 Trichloroethene: 1.7 ND (all other)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: 78 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 5.7 Tetrachloroethene: 1.3 ND (all other)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.3 Tetrachloroethene: 1.1 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 4.5 Tetrachloroethene: 1.1 ND (all other)	Arsenic: Dissolved: 1.21 Total: 1.65

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-7-GW (Drilled as WES-8)	In N corridor of 104 12 th basement, 25' W of WES-7	6/30/2017	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-8-GW (Drilled as BN-7)	Near NW corner of 124 12 th property - former location of gas station pump island	8/3/2017	Gasoline Range: 3,200 Diesel: 790 ^x Motor Oil: ND (<250)	Benzene: 11 Toluene: ND (<1) Ethylbenzene: 71 Xylenes: m&p: 360 o: 59	Isopropylbenzene: 12 n-Propylbenzene: 24 Naphthalene: 8.9 p-Isopropyltoluene: 1.1 sec-Butylbenzene: 1.8 1,2,4-Trimethylbenzene: 180 1,3,5-Trimethylbenzene: 59 ND (all other)	NA
		6/28/2018	Gasoline Range: 2,400 Diesel: 160 ^x Motor Oil: ND (<250)	Benzene: 2.9 Toluene: ND (<1) Ethylbenzene: 85 Xylenes: m&p: 320 o: 64	Isopropylbenzene: 14 n-Propylbenzene: 33 Naphthalene: 1.6 p-Isopropyltoluene: 1.1 sec-Butylbenzene: 1.9 1,2,4-Trimethylbenzene: 150 1,3,5-Trimethylbenzene: 54 ND (all other)	NA
		7/23/2019	Gasoline Range: 740 Diesel: 64 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: 10 Xylenes: 96	Isopropylbenzene: 3.1 n-Propylbenzene: 8.1 sec-Butylbenzene: 1.0 1,2,4-Trimethylbenzene: 67 1,3,5-Trimethylbenzene: 27 ND (all other)	Lead: ND (<1)
		12/9/2019	Gasoline Range: 350 Diesel: 62 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: 4.3 Xylenes: 49.7	Isopropylbenzene: 1.3 n-Propylbenzene: 2.1 1,2,4-Trimethylbenzene: 34 1,3,5-Trimethylbenzene: 14 ND (all other)	Arsenic: 9.21 Chromium: ND (<1) Lead: ND (<1)
		2/28/2020	Gasoline Range: 640 Diesel: 79 ^x Motor Oil: ND (<250)	Benzene: 0.64 Toluene: ND (<1) Ethylbenzene: 7.5 Xylenes: 74	Isopropylbenzene: 3.2 n-Propylbenzene: 4.0 1,2,4-Trimethylbenzene: 57 1,3,5-Trimethylbenzene: 23 ND (all other)	NA
		5/19/2020	Gasoline Range: 700 Diesel: 96 ^x Motor Oil: ND (<250)	Benzene: 0.52 Toluene: ND (<1) Ethylbenzene: 3.2 Xylenes: 69	1,2,4-Trimethylbenzene: 26 1,3,5-Trimethylbenzene: 20 ND (all other)	Arsenic: Dissolved: 3.44 Total: 4.93

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-9-GW (Drilled as BN-10)	NW gravel parking lot, S end of parking lot - likely S of former UST location	8/3/2017	Gasoline Range: 500 Diesel: 270 ^x Motor Oil: ND (<250)	Benzene: 6.8 Toluene: 1.3 Ethylbenzene: 6.3 Xylenes: 4.3	Hexane: 4.3 Isopropylbenzene: 7.2 n-Propylbenzene: 17 sec-Butylbenzene: 1.5 1,2,4-Trimethylbenzene: 1.3 1,3,5-Trimethylbenzene: 1.4 ND (all other)	NA
		7/13/2018	Gasoline Range: 470 Diesel: 180 ^x Motor Oil: ND (<250)	Benzene: 5.0 Toluene: ND (<1) Ethylbenzene: 8.5 Xylenes: 3.2	Isopropylbenzene: 12 n-Propylbenzene: 23 sec-Butylbenzene: 1.9 1,2,4-Trimethylbenzene: 1.1 ND (all other)	NA
		7/23/2019	Gasoline Range: 500 Diesel: 210 ^x Motor Oil: ND (<250)	Benzene: 2.1 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Hexane: 1.4 Isopropylbenzene: 16 n-Propylbenzene: 48 sec-Butylbenzene: 3.9 ND (all other)	Lead: ND (<1)
		12/5/2019	Gasoline Range: 2,900 Diesel: 620 ^x Motor Oil: ND (<250)	Benzene: 9.5 Toluene: 4.3 Ethylbenzene: 31 Xylenes: 9.3	Hexane: 10 Isopropylbenzene: 82 n-Propylbenzene: 210 Naphthalene: 1.2 p-Isopropyltoluene: 1.4 sec-Butylbenzene: 19 1,2,4-Trimethylbenzene: 1.7 ND (all other)	NA
		2/28/2020	Gasoline Range: 3,900 Diesel: 1,100^x Motor Oil: ND (<250)	Benzene: 9.5 Toluene: 3.7 Ethylbenzene: 43 Xylenes: 6.7	Hexane: 7.2 Isopropylbenzene: 110 n-Propylbenzene: 310 sec-Butylbenzene: 22 1,2,4-Trimethylbenzene: 1.7 ND (all other)	NA
		5/19/2020	Gasoline Range: 2,100 Diesel: 1,200^x Motor Oil: 290 ^x	Benzene: 5.5 Toluene: 2.3 Ethylbenzene: 17 Xylenes: 5	Hexane: 14 Isopropylbenzene: 74 n-Propylbenzene: 220 sec-Butylbenzene: 16 p-Isopropyltoluene: 1.5 ND (all other)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-10 (Drilled as SES-1)	In SE corner of 104 12 th parking lot property. Outside fence accessed through King County parking area.	11/3/2017	Gasoline Range: ND (<100) Diesel: 69 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		6/14/2018	Gasoline Range: ND (<100) Diesel: 66 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 1.2 ND (all other)	NA
		7/22/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	Lead: ND (<1)
		12/5/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: 9.30 Chromium: ND(<1) Lead: ND(<1)
		2/26/2020	Gasoline Range: ND (<100) Diesel: 66 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 5.18 Total: 5.41

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-11	On E edge of 104 12 th parking lot property. Outside fence accessed through King County parking area.	7/22/2019	Gasoline Range: ND (<100) Diesel: 400 ^x Motor Oil: 370 ^x	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 1.9 ND (all other)	Lead: ND (<1)
		12/5/2019	Gasoline Range: ND (<100) Diesel: 61 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.9 Vinyl chloride: 0.22 ND (all other)	Arsenic: 15.0 Chromium: ND(<1) Lead: ND(<1)
		3/3/2020	Gasoline Range: ND (<100) Diesel: 130 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.8 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 99 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 3.1 Vinyl chloride: 0.27 ND (all other)	Arsenic: Dissolved: 7.98 Total: 8.96
MW-12	In SE central part of 104 12 th parking lot property.	7/22/2019	Gasoline Range: ND (<100) Diesel: 140 ^x Motor Oil: 270 ^x	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	Lead: ND (<1)
		12/4/2019	Gasoline Range: ND (<100) Diesel: 120 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: 4.53 Chromium: ND(<1) Lead: ND(<1)
		3/17/2020	Gasoline Range: ND (<100) Diesel: 120 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 130 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Arsenic: Dissolved: 4.39 Total: 4.40

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-13	Sidewalk of Yesler Way, in front of garage door entry, adjacent to OS-4.	10/3/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	ND (all)	NA
		12/9/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		3/17/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
MW-14	At base of slope in open Center part of property, outside tenant access to former dry cleaner space in 118 12 th bldg.	7/22/2019	Gasoline Range: ND (<100) Diesel: 130 ^x Motor Oil: ND (<250)	Benzene: 1.8 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 2.3 Vinyl chloride: 0.65 ND (all other)	Lead: ND (<1)
		12/4/2019	Gasoline Range: ND (<100) Diesel: 110 ^x Motor Oil: ND (<250)	Benzene: 1.3 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.8 Vinyl chloride: 0.25 ND (all other)	NA
		2/28/2020	Gasoline Range: ND (<100) Diesel: 64 ^x Motor Oil: ND (<250)	Benzene: 1.8 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.1 Vinyl chloride: 0.66 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 110 ^x Motor Oil: ND (<250)	Benzene: 0.89 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.3 Vinyl chloride: 0.28 ND (all other)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
MW-15	In N central part of SE parking lot	4/2/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA
Geotech B-7 (GEO B-7)	In NW part of parking lot E of 104 12 th , between previous borings MW-2 and MW-5	12/6/2018	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 1.1 ND (all other)	NA
		7/22/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 3.0 Trichloroethene: 2.3 ND (all other)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 2.7 Trichloroethene: 1.8 ND (all other)	NA
		3/5/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 3.2 Trichloroethene: 2.9 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 2.5 Trichloroethene: 1.8 ND (all other)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
Geotech B-8 (GEO B-8)	In S central area of NW gravel parking lot, between borings BN-10, AEG-B-2 and AEG-B-4	12/6/2018	Gasoline Range: ND (<100) Diesel: 210 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	Isopropylbenzene: 1.1 n-Propylbenzene: 1.8 ND (all other)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: 140 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	Lead: ND (<1)
		12/4/2019	Gasoline Range: 150 Diesel: 410 ^x Motor Oil: 360 ^x	Benzene: 1.3 Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Isopropylbenzene: 4.0 n-Propylbenzene: 7.1 sec-Butylbenzene: 1.1 ND (all other)	NA
		2/28/2020	Gasoline Range: 110 Diesel: 180 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	Isopropylbenzene: 1.4 n-Propylbenzene: 2.7 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 380 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	ND (all)	NA

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Boring/ Sample I.D.	Sample Location	Sample Date	Laboratory Analytical Results (ug/l)			
			Total Petroleum Hydrocarbons <i>(by Methods NWTPH-G & NWTPH-D(X))</i>	Benzene Toluene Ethyl benzene Xylenes <i>(by EPA Method 8260C)</i>	Other Volatile Organic Compounds <i>(by EPA Method 8260C)</i> <i>List of 58 Additional Compounds Detectable by the Laboratory Method.</i>	Total Metals
Geotech B-9 (GEO B-9)	In NE part of parking lot E of 104 12 th , between previous borings MW-5 and MW-1	12/6/2018	Gasoline Range: ND (<100) Diesel: 76 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 2.4 Vinyl chloride: 0.36 ND (all other)	NA
		7/23/2019	Gasoline Range: ND (<100) Diesel: 59 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 1.4 ND (all other)	NA
		12/4/2019	Gasoline Range: ND (<100) Diesel: ND (<50) Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.5 Vinyl chloride: 0.22 ND (all other)	NA
		3/5/2020	Gasoline Range: ND (<100) Diesel: 73 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<1)	cis-1,2-Dichloroethene: 1.1 ND (all other)	NA
		5/19/2020	Gasoline Range: ND (<100) Diesel: 63 ^x Motor Oil: ND (<250)	Benzene: ND (<0.35) Toluene: ND (<1) Ethylbenzene: ND (<1) Xylenes: ND (<3)	cis-1,2-Dichloroethene: 1.0 ND (all other)	NA
Washington State Model Toxics Control Act (MTCA) Groundwater Cleanup Criteria (ug/l)			Gasoline: 800^A (Benzene is present) Diesel or Motor Oil: 500^A (combined)	Benzene: 5^A Toluene: 1,000^A Ethylbenzene: 700^A Xylenes: 1,000^A	Acetone: 7,200^B cis-1,2-Dichloroethene: 16^B Hexane: 480^B Isopropylbenzene: 800^B n-Propylbenzene: 800^B Naphthalene: 160^B p-Isopropyltoluene: NV sec-Butylbenzene: 800^B tert-Butylbenzene: 800^B Tetrachloroethene: 5^A Trichloroethene: 5^A Vinyl chloride: 0.2^A 1,2,4-Trimethylbenzene: 80^B 1,3,5-Trimethylbenzene: 80^B	Arsenic: 5^A Chromium: 50^A Lead: 15^A Iron: 11,000^B Manganese: 750^B

TABLE 3
2017-2020 Summary of Groundwater Sample Analytical Results
104 - 124 12th Avenue & 1209 E. Fir Street, Seattle, Washington

Table Notes:

ND (<XXX) - Parameter not detected at concentrations at or above the noted reporting limit.

NA - Sample not analyzed for the listed parameter.

Gasoline Range Total Petroleum Hydrocarbons by Method NWTPH-G.

Diesel and Motor Oil Range Total Petroleum Hydrocarbons by Method NWTPH-D(x).

^x - Indicates sample chromatogram does not resemble fuel standard used for analysis. Most likely carry over from gasoline range hydrocarbons, or non-petroleum organic matter.

BTEX compounds and other volatile organic compounds by EPA Method 8260C. All detected compounds summarized here. See laboratory report for full list of analyzed parameters.

Total Lead on unfiltered samples by EPA Method 6020B.

Dissolved and total Iron and Manganese as general water parameters as part of clean-up feasibility study. Analyses by EPA Method 6020B.

Dissolved and total arsenic by EPA Method 6020B. Total arsenic on unfiltered samples. Dissolved arsenic on field filtered samples using 0.45 micron single-use filters.

MTCA Groundwater cleanup criteria per Chapter 173-340-720 WAC. Method A criteria presented where available. Method B standard formula values shown where no Method A criteria available. Method B standard formula values from Dept. of Ecology 2020 Cleanup Levels and Risk Calculation (CLARC) database. NV indicates no value available from CLARC.

A - Method A listed

B - Method B Direct Contact

NV - No published value

Sample results exceeding applicable cleanup criteria are noted in ***Bold Italic***.



North



Scale 1 : 24,000

From USGS

Figure 1 - Site Map

104-124 12th Avenue & 1209 E. Fir Street
Seattle, Washington 98122

Project No. WES - 1591

Date June 11, 2017

File ID. 1591F1

WHITMAN
Environmental Sciences

Legend

- Approximate Location of Monitoring Well
- Approximate Location of Soil Borings (2016 -2020)
- Approximate Location of Soil Vapor Probe
- ⊕ Approximate Location of Geotechnical Soil Borings (Soil Descriptions Only)
- Approximate Location of 2016 Farallon Soil Borings (No Data or Soil Descriptions, Locations Estimated)

MW-X Well I.D. and Groundwater Elevation

--- Inferred Groundwater Elevation Contour

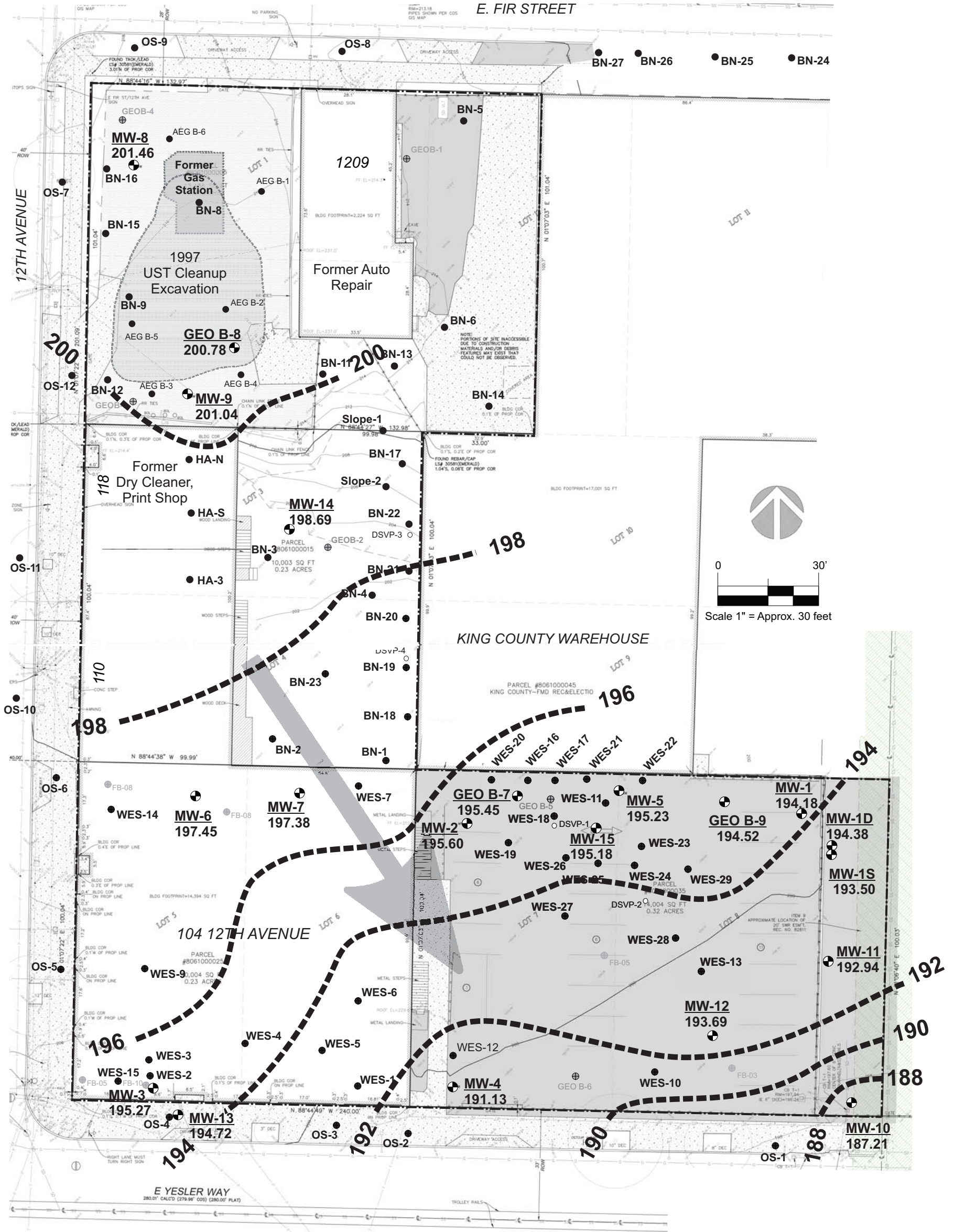
General Direction of Groundwater Migration

Figure 2 - Monitoring Well Location Plan and Inferred Groundwater Contours - 5/19/2020

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

Project No.	WES - 1591A
Date	Mar 20, 2020
File ID.	1591Q2F2

WHITMAN
Environmental Sciences



Legend

- ⊕ Approximate Location of Monitoring Well
- Approximate Location of Soil Borings (2016 -2020)
- Approximate Location of Soil Vapor Probe
- ⊕ Approximate Location of Geotechnical Soil Borings (Soil Descriptions Only)
- Approximate Location of 2016 Farallon Soil Borings (No Data or Soil Descriptions, Locations Estimated)

GEO B-7
TCE- 2.9
C12DCE- 3.2

Sample Location I.D
Analytical Parameter Concentrations (ug/l)
(Detected Compounds Only)

Bold Italic Exceeds CUL

Figure 3 - 2nd Quarter 2020 Groundwater Sampling Analytical Results

Proposed Redevelopment Property
104-124 12th Avenue & 1209 E. Fir Street
Seattle, WA

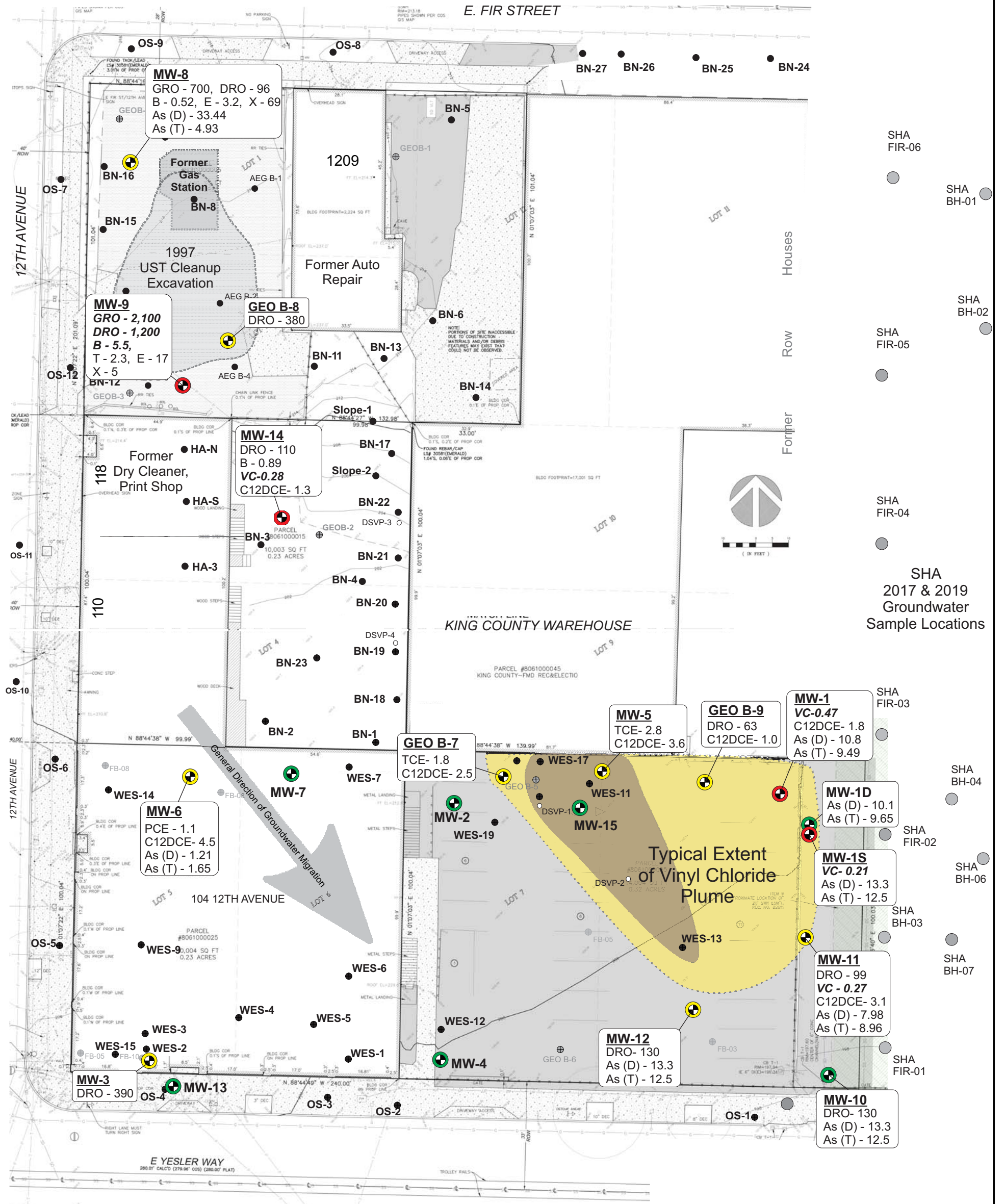
Project No.	WES - 1591A
Date	June 5, 2020
File ID.	1591Q2F3

WHITMAN
Environmental Sciences

⊕ Monitoring Well with No Detected CVOCs or Petroleum Compounds in Groundwater in 2nd Quarter 2020 Sampling

⊕ Monitoring Well with Detected CVOCs or Petroleum Compounds in Groundwater in 2nd Quarter 2020 Sampling

⊕ Monitoring Well with CVOCs or Petroleum Compounds above MTCA Method A in Groundwater in 2nd Quarter 2020 Sampling



EIM Groundwater Map Search

Map Layers Legend Tools Find Search

Home Share

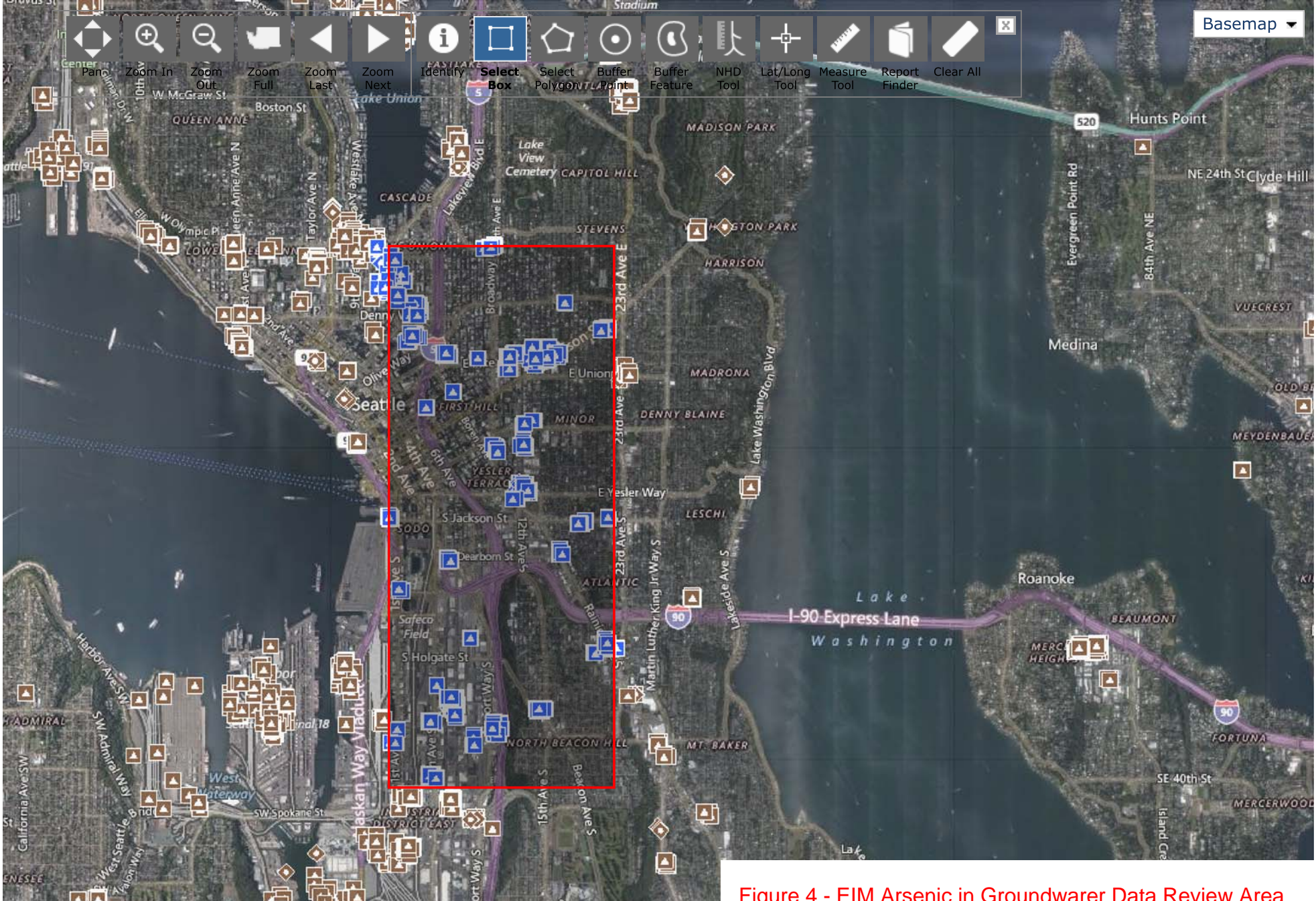


Figure 4 - EIM Arsenic in Groundwater Data Review Area

APPENDIX A

***Laboratory Analytical Report
Friedman & Bruya, Inc.***

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 10, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included is the amended report from the testing of material submitted on May 19, 2020 from the 12th and Yesler WES 1591, F&BI 005243 project. The total and dissolved metals were reanalyzed and the results are included in the report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0602R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

June 2, 2020

Dan Whitman, Project Manager
Whitman Environmental Sciences
6812 16th Ave NE
Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on May 19, 2020 from the 12th and Yesler WES 1591, F&BI 005243 project. There are 52 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
WES0602R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 19, 2020 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences 12th and Yesler WES 1591, F&BI 005243 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Whitman Environmental Sciences</u>
005243 -01	MW-1-GW
005243 -02	MW-1D-GW
005243 -03	MW-1S-GW
005243 -04	MW-2-GW
005243 -05	MW-3-GW
005243 -06	MW-4-GW
005243 -07	MW-5-GW
005243 -08	MW-6-GW
005243 -09	MW-7-GW
005243 -10	MW-8-GW
005243 -11	MW-9-GW
005243 -12	MW-10-GW
005243 -13	MW-11-GW
005243 -14	MW-12-GW
005243 -15	MW-13-GW
005243 -16	MW-14-GW
005243 -17	MW-15-GW
005243 -18	Geo B7-GW
005243 -19	Geo B8-GW
005243 -20	Geo B9-GW

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

Date Extracted: 05/22/20 and 05/26/20

Date Analyzed: 05/22/20 and 05/26/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
MW-1-GW 005243-01	<100	94
MW-1D-GW 005243-02	<100	93
MW-1S-GW 005243-03	<100	95
MW-2-GW 005243-04	<100	96
MW-3-GW 005243-05	<100	93
MW-4-GW 005243-06	<100	96
MW-5-GW 005243-07	<100	96
MW-6-GW 005243-08	<100	92
MW-7-GW 005243-09	<100	96
MW-8-GW 005243-10 1/5	700	94
MW-9-GW 005243-11 1/5	2,100	110

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

Date Extracted: 05/22/20 and 05/26/20

Date Analyzed: 05/22/20 and 05/26/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-G_x**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
MW-10-GW 005243-12	<100	97
MW-11-GW 005243-13	<100	93
MW-12-GW 005243-14	<100	92
MW-13-GW 005243-15	<100	93
MW-14-GW 005243-16	<100	95
MW-15-GW 005243-17	<100	94
Geo B7-GW 005243-18	<100	95
Geo B8-GW 005243-19	<100	98
Geo B9-GW 005243-20	<100	97
Method Blank 00-1101 MB	<100	93
Method Blank 00-1102 MB	<100	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20
 Date Received: 05/19/20
 Project: 12th and Yesler WES 1591, F&BI 005243
 Date Extracted: 05/20/20
 Date Analyzed: 05/20/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS
 DIESEL AND MOTOR OIL
 USING METHOD NWTPH-D_x
 Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
MW-1-GW 005243-01	<50	<250	104
MW-1D-GW 005243-02	<50	<250	102
MW-1S-GW 005243-03	51 x	<250	97
MW-2-GW 005243-04	<50	<250	101
MW-3-GW 005243-05	390 x	<250	96
MW-4-GW 005243-06	<50	<250	94
MW-5-GW 005243-07	<50	<250	108
MW-6-GW 005243-08	<50	<250	101
MW-7-GW 005243-09	<50	<250	94
MW-8-GW 005243-10	96 x	<250	105
MW-9-GW 005243-11	1,200 x	290 x	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20
 Date Received: 05/19/20
 Project: 12th and Yesler WES 1591, F&BI 005243
 Date Extracted: 05/20/20
 Date Analyzed: 05/20/20

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS
 DIESEL AND MOTOR OIL
 USING METHOD NWTPH-D_x
 Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
MW-10-GW 005243-12	<50	<250	110
MW-11-GW 005243-13	99 x	<250	93
MW-12-GW 005243-14	130 x	<250	104
MW-13-GW 005243-15	<50	<250	106
MW-14-GW 005243-16	110 x	<250	93
MW-15-GW 005243-17	<50	<250	79
Geo B7-GW 005243-18	<50	<250	110
Geo B8-GW 005243-19	380 x	350 x	102
Geo B9-GW 005243-20	63 x	<250	105
Method Blank 00-1144 MB	<50	<250	112

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-1-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-01 rex
Date Analyzed:	06/08/20 13:23:23	Data File:	005243-01 rex.056
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-1D-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-02 rex
Date Analyzed:	06/08/20 13:28:04	Data File:	005243-02 rex.057
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	10.1
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-1S-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-03 rex
Date Analyzed:	06/08/20 13:52:05	Data File:	005243-03 rex.065
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	13.3
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-6-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-08 rex
Date Analyzed:	06/08/20 14:10:50	Data File:	005243-08 rex.069
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.21
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-8-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-10 rex
Date Analyzed:	06/08/20 14:20:15	Data File:	005243-10 rex.071
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	3.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-10-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-12 rex
Date Analyzed:	06/08/20 14:29:39	Data File:	005243-12 rex.073
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	5.18

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-11-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-13 rex
Date Analyzed:	06/08/20 14:39:03	Data File:	005243-13 rex.075
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	7.98
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	MW-12-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-14 rex
Date Analyzed:	06/08/20 14:48:26	Data File:	005243-14 rex.077
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	4.39
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	NA	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	I0-327 mb
Date Analyzed:	06/08/20 13:14:00	Data File:	I0-327 mb.054
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-01 rex
Date Analyzed:	06/08/20 11:30:24	Data File:	005243-01 rex.036
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	9.49
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1D-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-02 rex
Date Analyzed:	06/08/20 13:47:23	Data File:	005243-02 rex.064
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	9.65
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1S-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-03 rex
Date Analyzed:	06/08/20 13:56:47	Data File:	005243-03 rex.066
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	12.5
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-6-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-08 rex
Date Analyzed:	06/08/20 14:15:33	Data File:	005243-08 rex.070
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	1.65
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-8-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-10 rex
Date Analyzed:	06/08/20 14:24:57	Data File:	005243-10 rex.072
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-10-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-12 rex
Date Analyzed:	06/08/20 14:34:21	Data File:	005243-12 rex.074
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	5.41
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-11-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-13 rex
Date Analyzed:	06/08/20 14:43:45	Data File:	005243-13 rex.076
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	8.96

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-12-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	005243-14 rex
Date Analyzed:	06/08/20 14:53:07	Data File:	005243-14 rex.078
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	4.40
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	NA	Project:	12th and Yesler WES 1591
Date Extracted:	06/08/20	Lab ID:	I0-326 mb rex
Date Analyzed:	06/08/20 12:59:09	Data File:	I0-326 mb rex.051
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
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Arsenic	<1
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-1-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-01
Date Analyzed:	05/22/20	Data File:	052232.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.47	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	1.8	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-1D-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-02
Date Analyzed:	05/22/20	Data File:	052233.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	101	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-1S-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-03
Date Analyzed:	05/22/20	Data File:	052234.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.21	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-2-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-04
Date Analyzed:	05/22/20	Data File:	052235.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-3-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-05
Date Analyzed:	05/22/20	Data File:	052236.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	145
Toluene-d8	101	55	145
4-Bromofluorobenzene	98	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-4-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-06
Date Analyzed:	05/22/20	Data File:	052237.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	100	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-5-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-07
Date Analyzed:	05/22/20	Data File:	052238.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	62	145
Toluene-d8	99	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	3.6	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	2.8	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-6-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-08
Date Analyzed:	05/22/20	Data File:	052239.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	100	55	145
4-Bromofluorobenzene	99	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	1.1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	4.5	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-7-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-09
Date Analyzed:	05/22/20	Data File:	052240.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	62	145
Toluene-d8	103	55	145
4-Bromofluorobenzene	102	65	139

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-8-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-10
Date Analyzed:	05/22/20	Data File:	052241.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	3.2
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	50
Hexane	<1	o-Xylene	19
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	20
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	26
Benzene	0.52	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-9-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-11
Date Analyzed:	05/22/20	Data File:	052242.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	17
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	5.0
Hexane	14	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	74
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	220 ve
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	5.5	sec-Butylbenzene	16
Trichloroethene	<1	p-Isopropyltoluene	1.5
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	2.3	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-9-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-11 1/10
Date Analyzed:	05/26/20	Data File:	052628.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	<10
Vinyl chloride	<2	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	<10	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	13
Acetone	<500	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<20
Hexane	13	o-Xylene	<10
Methylene chloride	<50	Styrene	<10
Methyl t-butyl ether (MTBE)	<10	Isopropylbenzene	52
trans-1,2-Dichloroethene	<10	Bromoform	<10
1,1-Dichloroethane	<10	n-Propylbenzene	130
2,2-Dichloropropane	<10	Bromobenzene	<10
cis-1,2-Dichloroethene	<10	1,3,5-Trimethylbenzene	<10
Chloroform	<10	1,1,2,2-Tetrachloroethane	<10
2-Butanone (MEK)	<100	1,2,3-Trichloropropane	<10
1,2-Dichloroethane (EDC)	<10	2-Chlorotoluene	<10
1,1,1-Trichloroethane	<10	4-Chlorotoluene	<10
1,1-Dichloropropene	<10	tert-Butylbenzene	<10
Carbon tetrachloride	<10	1,2,4-Trimethylbenzene	<10
Benzene	5.6	sec-Butylbenzene	11
Trichloroethene	<10	p-Isopropyltoluene	<10
1,2-Dichloropropane	<10	1,3-Dichlorobenzene	<10
Bromodichloromethane	<10	1,4-Dichlorobenzene	<10
Dibromomethane	<10	1,2-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dibromo-3-chloropropane	<100
cis-1,3-Dichloropropene	<10	1,2,4-Trichlorobenzene	<10
Toluene	<10	Hexachlorobutadiene	<10
trans-1,3-Dichloropropene	<10	Naphthalene	<10
1,1,2-Trichloroethane	<10	1,2,3-Trichlorobenzene	<10
2-Hexanone	<100		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-10-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-12
Date Analyzed:	05/22/20	Data File:	052243.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-11-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-13
Date Analyzed:	05/22/20	Data File:	052244.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.27	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	3.1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-12-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-14
Date Analyzed:	05/22/20	Data File:	052245.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-13-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-15
Date Analyzed:	05/22/20	Data File:	052246.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-14-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-16
Date Analyzed:	05/22/20	Data File:	052247.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.28	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	1.3	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	0.89	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	MW-15-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-17
Date Analyzed:	05/22/20	Data File:	052248.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Geo B7-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-18
Date Analyzed:	05/22/20	Data File:	052249.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	98	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	2.5	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	1.8	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Geo B8-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-19
Date Analyzed:	05/22/20	Data File:	052250.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Geo B9-GW	Client:	Whitman Environmental Sciences
Date Received:	05/19/20	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	005243-20
Date Analyzed:	05/22/20	Data File:	052251.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	1.0	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	12th and Yesler WES 1591
Date Extracted:	05/22/20	Lab ID:	00-1151 mb
Date Analyzed:	05/22/20	Data File:	052230.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	MS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	101	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	ug/L (ppb)	1,000	106	103	69-134	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TPH AS GASOLINE
USING METHOD NWTPH-G_x**

Laboratory Code: 005279-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	105	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	88	92	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR DISSOLVED METALS USING EPA METHOD 6020B**

Laboratory Code: 005243-02 rex (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	10.1	106	108	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	94	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 005243-01 rex (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	9.49	112	115	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	102	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/20

Date Received: 05/19/20

Project: 12th and Yesler WES 1591, F&BI 005243

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR VOLATILES BY EPA METHOD 8260D**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	104	101	25-158	3
Chloromethane	ug/L (ppb)	50	99	97	45-156	2
Vinyl chloride	ug/L (ppb)	50	95	94	50-154	1
Bromomethane	ug/L (ppb)	50	109	108	55-143	1
Chloroethane	ug/L (ppb)	50	97	99	58-146	2
Trichlorofluoromethane	ug/L (ppb)	250	97	99	50-150	2
Acetone	ug/L (ppb)	250	91	94	22-155	3
1,1-Dichloroethene	ug/L (ppb)	50	93	98	67-136	5
Hexane	ug/L (ppb)	50	92	99	57-137	7
Methylene chloride	ug/L (ppb)	50	98	103	39-148	5
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	101	102	64-147	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	96	68-128	5
1,1-Dichloroethane	ug/L (ppb)	50	99	103	74-135	4
2,2-Dichloropropane	ug/L (ppb)	50	104	103	55-143	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	95	98	74-136	3
Chloroform	ug/L (ppb)	50	99	102	74-134	3
2-Butanone (MEK)	ug/L (ppb)	250	95	101	37-150	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	100	66-129	4
1,1,1-Trichloroethane	ug/L (ppb)	50	101	105	74-142	4
1,1-Dichloropropene	ug/L (ppb)	50	102	107	77-129	5
Carbon tetrachloride	ug/L (ppb)	50	109	112	75-158	3
Benzene	ug/L (ppb)	50	99	103	69-134	4
Trichloroethene	ug/L (ppb)	50	95	99	67-133	4
1,2-Dichloropropane	ug/L (ppb)	50	103	107	71-134	4
Bromodichloromethane	ug/L (ppb)	50	113	118	76-132	4
Dibromomethane	ug/L (ppb)	50	103	108	68-132	5
4-Methyl-2-pentanone	ug/L (ppb)	250	107	112	65-138	5
cis-1,3-Dichloropropene	ug/L (ppb)	50	110	113	74-140	3
Toluene	ug/L (ppb)	50	97	103	72-122	6
trans-1,3-Dichloropropene	ug/L (ppb)	50	105	112	80-136	6
1,1,2-Trichloroethane	ug/L (ppb)	50	102	105	75-124	3
2-Hexanone	ug/L (ppb)	250	100	104	60-136	4
1,3-Dichloropropane	ug/L (ppb)	50	101	106	76-126	5
Tetrachloroethene	ug/L (ppb)	50	97	102	76-121	5
Dibromochloromethane	ug/L (ppb)	50	103	106	84-133	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	103	108	82-115	5
Chlorobenzene	ug/L (ppb)	50	98	104	83-114	6
Ethylbenzene	ug/L (ppb)	50	99	103	77-124	4
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	110	114	84-127	4
m,p-Xylene	ug/L (ppb)	100	98	102	81-112	4
o-Xylene	ug/L (ppb)	50	101	104	81-121	3
Styrene	ug/L (ppb)	50	100	105	84-119	5
Isopropylbenzene	ug/L (ppb)	50	99	103	80-117	4
Bromoform	ug/L (ppb)	50	101	106	74-136	5
n-Propylbenzene	ug/L (ppb)	50	100	106	74-126	6
Bromobenzene	ug/L (ppb)	50	101	108	80-121	7
1,3,5-Trimethylbenzene	ug/L (ppb)	50	101	105	78-123	4
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	108	114	66-126	5
1,2,3-Trichloropropane	ug/L (ppb)	50	99	104	67-124	5
2-Chlorotoluene	ug/L (ppb)	50	99	104	77-127	5
4-Chlorotoluene	ug/L (ppb)	50	100	106	78-128	6
tert-Butylbenzene	ug/L (ppb)	50	103	107	80-123	4
1,2,4-Trimethylbenzene	ug/L (ppb)	50	99	104	79-122	5
sec-Butylbenzene	ug/L (ppb)	50	103	107	80-116	4
p-Isopropyltoluene	ug/L (ppb)	50	100	104	81-123	4
1,3-Dichlorobenzene	ug/L (ppb)	50	97	102	83-113	5
1,4-Dichlorobenzene	ug/L (ppb)	50	96	100	81-112	4
1,2-Dichlorobenzene	ug/L (ppb)	50	99	103	84-112	4
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	99	104	57-141	5
1,2,4-Trichlorobenzene	ug/L (ppb)	50	103	105	72-130	2
Hexachlorobutadiene	ug/L (ppb)	50	99	102	53-141	3
Naphthalene	ug/L (ppb)	50	102	104	64-133	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	104	107	65-136	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

0052143

SAMPLE CHAIN OF CUSTODY

ME 05/19/20

W03/ABG/

Report To Fred CHITMAN

Company CDHITMAN ENV. SERVICES

Address 6812 15TH AVE NE

City, State, ZIP SEATTLE, WA 98115

Phone 206-751-1115

SAMPLERS (signature)

PROJECT NAME

IRTH + WESTER

PO #

065 1591

REMARKS

Project specific RIAs?

Yes / No

INVOICE TO

Page # 1 of 2

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TOTAL ARSENIC	DISSOLVED ARSENIC	Notes
<u>MD-1-660</u>	<u>OIA-P</u>	<u>5-19</u>	<u>4:35</u>	<u>water</u>	<u>6</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-17-660</u>	<u>DR</u>		<u>12:20</u>		<u>6</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-15-660</u>	<u>83</u>		<u>12:55</u>		<u>6</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-2-660</u>	<u>04A-5</u>		<u>3:45</u>		<u>4</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-3-660</u>	<u>05</u>		<u>3:00</u>		<u>4</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-4-660</u>	<u>06</u>		<u>4:00</u>		<u>4</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-5-660</u>	<u>07</u>		<u>4:40</u>		<u>4</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-6-660</u>	<u>08 A-F</u>		<u>5:30</u>		<u>6</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-7-660</u>	<u>09 A-D</u>		<u>5:15</u>		<u>4</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	
<u>MD-8-660</u>	<u>10 A-E</u>		<u>10:30</u>		<u>6</u>	<u>X</u>	<u>X</u>			<u>X</u>			<u>X</u>	<u>X</u>	

Samples received at 3 °C

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

Friedman & Bruga, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-3282

065

FBI

5/19/20 6:00

5/19/20 6:20

005243

SAMPLE CHAIN OF CUSTODY

ME 05/19/20

WJ3/AT6 / B05

SAMPLERS (signature)

Page # 2 of 2

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

PROJECT NAME

12th & 46th

PO #

4065 1591

REMARKS

INVOICE TO

Protect specific RI's? - Yes / No

Report To: [Signature]

Company: WILLIAMS ENV. SERVICES

Address: 818 16TH AVE DC

City, State, ZIP: SEATTLE, WA 98115

Phone: [Signature]

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TOTAL ARSENIC	DETECTED ARSENIC			
MID-9	11A-D	5-19-20	1:00	Water	4	X	X			X							
MID-10	12A-E		11:40		6	X	X			X							
MID-11			12:05		6	X	X			X							
MID-12			1:30		6	X	X			X							
MID-13	15A-D		1:45		4	X	X			X							
MID-14			11:30		4	X	X			X							
MID-15			5:00		4	X	X			X							
MID-16	16		4:40		4	X	X			X							
MID-17	17		11:00		4	X	X			X							
MID-18	18		7:00		4	X	X			X							
MID-19	19		4:00		4	X	X			X							

Samples received at 3 °C

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

[Signature]

[Signature]

[Signature]

5-19-20

5:30 PM

Received by:

[Signature]

Loane Lessing

[Signature]

FB1

5/19/20 06:40:20

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282

APPENDIX B

***Spreadsheet of Arsenic in Groundwater
Data from EIM***

Study_ID	Study_Name	Study_Specific_Loc	Location_N	Field_Collec	Sample_ID	Sample_Source	Result_Pa	Lab_Analysis	Result_Val	Result_Vali	Result_Ri	Result_Rej	Result_Detectic	Result_Det	Result_	Result_Dat	Result_Sus	Result_Sus	Result_Sus	Fraction_Ana	Field_Filter	Result_Me	Result_Lab	Calculate	Calculated	Longitude_Decimal	Degrees_NAD83HARN
AODE8996	Troy Laundry Property, Se Pipe01		AODE8996	Sample	Pipe01-20111005	Groundwater	Arsenic	#####	16.9 ug/L		10	MRL		0.73 MDL						Total		EPA200.8	Friedman &	47.621	-122.335		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	D-1-20170420	Groundwater	Arsenic	4/26/2017	1.03 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total					SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	D-1-20170420	Groundwater	Arsenic	4/26/2017	0.904 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-03		FS2422575	Sample	RW-03-20170420	Groundwater	Arsenic	4/26/2017	2.2 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-03		FS2422575	Sample	RW-03-20170420	Groundwater	Arsenic	4/26/2017	1.94 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-02		FS2422575	Sample	RW-02-20170420	Groundwater	Arsenic	4/26/2017	0.655 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total					SW6020	ESC Lab Sci	47.5748	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-02		FS2422575	Sample	RW-02-20170420	Groundwater	Arsenic	4/26/2017	0.681 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5748	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20170420	Groundwater	Arsenic	4/26/2017	11.2 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20170420	Groundwater	Arsenic	4/26/2017	9.35 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	RW-01-20170420	Groundwater	Arsenic	4/26/2017	0.878 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total					SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	RW-01-20170420	Groundwater	Arsenic	4/26/2017	0.854 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	D-1-20170519	Groundwater	Arsenic	5/27/2017	38.8 ug/L		2	PQL		0.25 MDL						Total		SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	D-1-20170519	Groundwater	Arsenic	5/27/2017	40.4 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20170519	Groundwater	Arsenic	5/27/2017	39.3 ug/L		2	PQL		0.25 MDL						Total		SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20170519	Groundwater	Arsenic	5/27/2017	38.7 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	RW-01-20170519	Groundwater	Arsenic	5/27/2017	39.4 ug/L		2	PQL		0.25 MDL						Total		SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-01		FS2422575	Sample	RW-01-20170519	Groundwater	Arsenic	5/27/2017	37.7 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-02		FS2422575	Sample	RW-02-20170519	Groundwater	Arsenic	5/27/2017	25.7 ug/L		2	PQL		0.25 MDL						Total		SW6020A	ESC Lab Sci	47.5748	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-02		FS2422575	Sample	RW-02-20170519	Groundwater	Arsenic	5/27/2017	26.9 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020A	ESC Lab Sci	47.5748	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-03		FS2422575	Sample	RW-03-20170519	Groundwater	Arsenic	5/27/2017	34.8 ug/L		2	PQL		0.25 MDL						Total		SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-03		FS2422575	Sample	RW-03-20170519	Groundwater	Arsenic	5/27/2017	35.1 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020A	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20180522	Groundwater	Arsenic	5/30/2018	29.9 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5747	-122.329		
FS24225754	Fire Station 14 2017 Site (RW-04		FS2422575	Sample	RW-04-20180522	Groundwater	Arsenic	5/25/2018	30.4 ug/L		2	PQL		0.25 MDL						Dissolved	Y	SW6020	ESC Lab Sci	47.5747	-122.329		
FS24714	Modera Jackson	24714_DB04	24714_DB	Sample	DB04-20160902	Groundwater	Arsenic	9/8/2016	10.7 ug/L		1	MRL		0.049 MDL						Total		EPA200.8	Friedman &	47.5989	-122.309		
FS24714	Modera Jackson	24714_DB04	24714_DB	Sample	DB04-20160902	Groundwater	Arsenic	9/13/2016	3.03 ug/L		1	MRL		0.049 MDL						Dissolved	N	EPA200.8	Friedman &	47.5989	-122.309		
FS24714	Modera Jackson	24714_DB05	24714_DB	Sample	DB05-20160902	Groundwater	Arsenic	9/8/2016	23.2 ug/L		1	MRL		0.049 MDL						Total		EPA200.8	Friedman &	47.5989	-122.309		
FS24714	Modera Jackson	24714_DB05	24714_DB	Sample	DB05-20160902	Groundwater	Arsenic	9/13/2016	2.84 ug/L		1	MRL		0.049 MDL						Dissolved	N	EPA200.8	Friedman &	47.5989	-122.309		
FS64451343	WB Sprague Co 2017 Site	VEW-01	64451343\	Sample	VEW-1-20170228	Groundwater	Arsenic	3/3/2017	8.01 ug/L		10	PQL		6.5 MDL	J	Analyte was positively identified. The reporte	Total					SW6010C	ESC Lab Sci	47.6173	-122.305		
FS64451343	WB Sprague Co 2017 Site	VEW-02	64451343\	Sample	VEW-2-20170228	Groundwater	Arsenic	3/3/2017	21.9 ug/L		10	PQL		6.5 MDL						Total		SW6010C	ESC Lab Sci	47.6174	-122.305		
FS64451343	WB Sprague Co 2017 Site	B-04	FS6445134	Sample	B-04	Groundwater	Arsenic	3/14/2017	14.5 ug/L		10	PQL		6.5 MDL						Total		SW6010C	ESC Lab Sci	47.6173	-122.306		
FS64451343	WB Sprague Co 2017 Site	B-04	FS6445134	Sample	B-04	Groundwater	Arsenic	4/19/2017	11.6 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.6173	-122.306		
FS71749732	Gray Line 2017 Site Chara	MW-K01	71749732\	Sample	MW-K-01-201702	Groundwater	Arsenic	3/3/2017	6.5 ug/L		10	PQL		6.5 MDL	U	Analyte was not detected at or above the rep	Total					SW6010C	ESC Lab Sci	47.5788	-122.323		
FS71749732	Gray Line 2017 Site Chara	MW-K02	71749732\	Sample	MW-K-02-201702	Groundwater	Arsenic	3/3/2017	6.5 ug/L		10	PQL		6.5 MDL	U	Analyte was not detected at or above the rep	Total					SW6010C	ESC Lab Sci	47.5785	-122.324		
FS71749732	Gray Line 2017 Site Chara	MW-K04	71749732\	Sample	D-1-20170504	Groundwater	Arsenic	5/16/2017	1.83 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total				SW6020	ESC Lab Sci	47.5778	-122.324			
FS71749732	Gray Line 2017 Site Chara	MW-K04	71749732\	Sample	D-1-20170504	Groundwater	Arsenic	5/11/2017	0.46 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y			SW6020	ESC Lab Sci	47.5778	-122.324			
FS71749732	Gray Line 2017 Site Chara	MW-K01	71749732\	Sample	MWK-01-2017050	Groundwater	Arsenic	5/16/2017	0.864 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total				SW6020	ESC Lab Sci	47.5788	-122.323			
FS71749732	Gray Line 2017 Site Chara	MW-K01	71749732\	Sample	MWK-01-2017050	Groundwater	Arsenic	5/11/2017	0.335 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y			SW6020	ESC Lab Sci	47.5788	-122.323			
FS71749732	Gray Line 2017 Site Chara	MW-K02	71749732\	Sample	MWK-02-2017050	Groundwater	Arsenic	5/16/2017	3.81 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5785	-122.324		
FS71749732	Gray Line 2017 Site Chara	MW-K02	71749732\	Sample	MWK-02-2017050	Groundwater	Arsenic	5/11/2017	0.727 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5785	-122.324		
FS71749732	Gray Line 2017 Site Chara	MW-K03	71749732\	Sample	MWK-03-2017050	Groundwater	Arsenic	5/16/2017	2.13 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5779	-122.324		
FS71749732	Gray Line 2017 Site Chara	MW-K03	71749732\	Sample	MWK-03-2017050	Groundwater	Arsenic	5/11/2017	0.44 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5779	-122.324		
FS71749732	Gray Line 2017 Site Chara	MW-K04	71749732\	Sample	MWK-04-2017050	Groundwater	Arsenic	5/16/2017	1.75 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Total				SW6020	ESC Lab Sci	47.5778	-122.324			
FS71749732	Gray Line 2017 Site Chara	MW-K04	71749732\	Sample	MWK-04-2017050	Groundwater	Arsenic	5/11/2017	0.452 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y			SW6020	ESC Lab Sci	47.5778	-122.324			
FS71749732	Gray Line 2017 Site Chara	MW-K05	71749732\	Sample	MWK-05-2017050	Groundwater	Arsenic	5/16/2017	12.6 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5778	-122.323		
FS71749732	Gray Line 2017 Site Chara	MW-K05	71749732\	Sample	MWK-05-2017050	Groundwater	Arsenic	5/11/2017	0.927 ug/L		2	PQL		0.25 MDL	J	Analyte was positively identified. The reporte	Dissolved	Y				SW6020	ESC Lab Sci	47.5778	-122.323		
FS72836574	Davis Door Service 2017 S	RW-03	FS7283657	Sample	D-1-20170420	Groundwater	Arsenic	4/26/2017	4.63 ug/L		2	PQL		0.25 MDL						Total		SW6020	ESC Lab Sci	47.5			

VCNW3063	Tilt 49 Commercial Develc	Tilt49-SP-14	TILT49-SP-: Sample	SP-14	Groundwater	Arsenic	#####	5 ug/L	0.005 MRL	U	Analyte was not detected at or above the rep	Dissolved	U	SW7010	Advanced /	47.6168	-122.332
VCNW3063	Tilt 49 Commercial Develc	Tilt49-SP-7	TILT49-SP-: Sample	SP-7	Groundwater	Arsenic	#####	5 ug/L	0.005 MRL	U	Analyte was not detected at or above the rep	Dissolved	U	SW7010	Advanced /	47.6167	-122.332
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-032118	Groundwater	Arsenic	3/28/2018	4.2 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-032118	Groundwater	Arsenic	3/28/2018	4.1 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-032118	Groundwater	Arsenic	3/28/2018	2.4 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-032118	Groundwater	Arsenic	3/28/2018	2.1 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-032118	Groundwater	Arsenic	3/28/2018	2.5 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-032118	Groundwater	Arsenic	3/28/2018	2.5 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-042716	Groundwater	Arsenic	4/27/2016	3.3 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-042716	Groundwater	Arsenic	4/27/2016	3.4 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	B7E	VCNW3114 Sample	B7E-H2O	Groundwater	Arsenic	6/12/2010	1 ug/L	1 SQL	U	Analyte was not detected at or above the rep	Total		SW6020	ESN North	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	B8E	VCNW3114 Sample	B8E-H2O	Groundwater	Arsenic	6/12/2010	24 ug/L				Total		SW6020	ESN North	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	B9E	VCNW3114 Sample	B9E-H2O	Groundwater	Arsenic	6/12/2010	17 ug/L				Total		SW6020	ESN North	47.6148	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-062118	Groundwater	Arsenic	6/25/2018	5.5 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-062118	Groundwater	Arsenic	6/25/2018	4.7 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-062118	Groundwater	Arsenic	6/25/2018	3 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-062118	Groundwater	Arsenic	6/25/2018	3.2 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-062118	Groundwater	Arsenic	6/25/2018	3.9 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-062118	Groundwater	Arsenic	6/25/2018	3.6 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-072115	Groundwater	Arsenic	7/24/2015	4.6 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-072115	Groundwater	Arsenic	7/24/2015	3 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-072115	Groundwater	Arsenic	7/24/2015	44 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-072718	Groundwater	Arsenic	7/31/2018	6.2 ug/L	1.2 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-072718	Groundwater	Arsenic	7/31/2018	6 ug/L	1.2 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-091418	Groundwater	Arsenic	9/19/2018	6.9 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-091418	Groundwater	Arsenic	9/19/2018	6.7 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-091418	Groundwater	Arsenic	9/19/2018	3.3 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-091418	Groundwater	Arsenic	9/19/2018	3.4 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-091418	Groundwater	Arsenic	9/19/2018	5.5 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-091418	Groundwater	Arsenic	9/19/2018	5.9 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-122017	Groundwater	Arsenic	#####	4.2 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-03	VCNW3114 Sample	MW-03-122017	Groundwater	Arsenic	#####	4.1 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-122017	Groundwater	Arsenic	#####	2.3 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-01	VCNW3114 Sample	MW-01-122017	Groundwater	Arsenic	#####	1.9 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6151	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-122017	Groundwater	Arsenic	#####	3.2 ug/L	1 SQL			Total		EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3114	1111 East Pine Street Site	MW-02	VCNW3114 Sample	MW-02-122017	Groundwater	Arsenic	#####	3 ug/L	1 SQL			Dissolved	Y	EPA200.8	ALS Lab Gri	47.6149	-122.318
VCNW3198	Former Recreation Equipr	3198-MW-B-7	MW-B-7 1 Sample	B-7-120116	Groundwater	Arsenic	12/5/2016	11.9 ug/L	1 MRL			Total		EPA200.8	Friedman E	47.6147	-122.318
VCNW3198	Former Recreation Equipr	3198-MW-B-7	MW-B-7 1 Sample	B-7-120116	Groundwater	Arsenic	12/5/2016	1.73 ug/L	1 MRL			Dissolved	Y	EPA200.8	Friedman E	47.6147	-122.318
VCNW3198	Former Recreation Equipr	3198-MW-B-7	MW-B-7 1 Sample	Dup-Inside-12011	Groundwater	Arsenic	12/5/2016	14.5 ug/L	1 MRL			Total		EPA200.8	Friedman E	47.6147	-122.318
VCNW3198	Former Recreation Equipr	3198-MW-B-7	MW-B-7 1 Sample	Dup-Inside-12011	Groundwater	Arsenic	12/5/2016	1.28 ug/L	1 MRL			Dissolved	Y	EPA200.8	Friedman E	47.6147	-122.318
VCNW3203	Industrial Plating Corp	DMW-7	FS2133 DV Sample	DMW-7	Groundwater	Arsenic	1/11/2017	2.03 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5811	-122.326
VCNW3203	Industrial Plating Corp	DMW-6	FS2133 DV Sample	DMW-6	Groundwater	Arsenic	1/11/2017	7.31 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5817	-122.326
VCNW3203	Industrial Plating Corp	DMW-4	FS2133 DV Sample	DMW-4	Groundwater	Arsenic	1/11/2017	3.4 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5822	-122.327
VCNW3203	Industrial Plating Corp	DMW-1	FS2133 DV Sample	DMW-1	Groundwater	Arsenic	1/12/2017	1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5821	-122.326
VCNW3203	Industrial Plating Corp	DMW-5	FS2133 DV Sample	DMW-5	Groundwater	Arsenic	1/12/2017	1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5822	-122.327
VCNW3203	Industrial Plating Corp	DMW-2	FS2133 DV Sample	DMW-2	Groundwater	Arsenic	1/12/2017	2.12 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5823	-122.326
VCNW3203	Industrial Plating Corp	DMW-3	FS2133 DV Sample	DMW-3	Groundwater	Arsenic	1/12/2017	1.13 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5818	-122.326
VCNW3203	Industrial Plating Corp	GMW-6	FS2133 GV Sample	GMW-6	Groundwater	Arsenic	1/12/2017	2.96 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5817	-122.326
VCNW3203	Industrial Plating Corp	MW-6	FS2133 MV Sample	MW-6	Groundwater	Arsenic	1/12/2017	1.71 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5813	-122.326
VCNW3203	Industrial Plating Corp	MW-1	FS2133 MV Sample	MW-1	Groundwater	Arsenic	1/12/2017	1.35 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5821	-122.327
VCNW3203	Industrial Plating Corp	MW-2	FS2133 MV Sample	MW-2	Groundwater	Arsenic	1/12/2017	20.1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5817	-122.327
VCNW3203	Industrial Plating Corp	GMW-5	FS2133 GV Sample	DUP-1	Groundwater	Arsenic	1/17/2017	62.3 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5822	-122.327
VCNW3203	Industrial Plating Corp	GMW-1	FS2133 GV Sample	GMW-1	Groundwater	Arsenic	1/17/2017	3.54 ug/L	10 PQL			Total		EPA200.8	Fremont Ai	47.5821	-122.326
VCNW3203	Industrial Plating Corp	MW-5	FS2133 MV Sample	MW-5	Groundwater	Arsenic	1/17/2017	1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5818	-122.326
VCNW3203	Industrial Plating Corp	GMW-4	FS2133 GV Sample	GMW-4	Groundwater	Arsenic	1/17/2017	1.33 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5822	-122.327
VCNW3203	Industrial Plating Corp	GMW-3	FS2133 GV Sample	GMW-3	Groundwater	Arsenic	1/17/2017	19.8 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5818	-122.326
VCNW3203	Industrial Plating Corp	GMW-7	FS2133 GV Sample	GMW-7	Groundwater	Arsenic	1/17/2017	5.13 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5811	-122.326
VCNW3203	Industrial Plating Corp	GMW-5	FS2133 GV Sample	GMW-5	Groundwater	Arsenic	1/17/2017	64.1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5822	-122.327
VCNW3203	Industrial Plating Corp	GMW-2	FS2133 GV Sample	GMW-2	Groundwater	Arsenic	1/17/2017	15.1 ug/L	1 PQL			Total		EPA200.8	Fremont Ai	47.5823	-122.326
VCNW3203	Industrial Plating Corp	EDB-1	FS2133 EDI Sample	EDB-1:GW	Groundwater	Arsenic	4/26/2014	66.6 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.326
VCNW3203	Industrial Plating Corp	EDB-2	FS2133 EDI Sample	EDB-2:GW	Groundwater	Arsenic	5/1/2014	49.5 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.326
VCNW3203	Industrial Plating Corp	EDB-3	FS2133 EDI Sample	EDB-3:GW	Groundwater	Arsenic	4/26/2014	27.6 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.326
VCNW3203	Industrial Plating Corp	EDB-4	FS2133 EDI Sample	EDB-4:GW	Groundwater	Arsenic	4/26/2014	23.9 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.326
VCNW3203	Industrial Plating Corp	EDB-5	FS2133 EDI Sample	EDB-5:GW	Groundwater	Arsenic	4/26/2014	19.9 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.327
VCNW3203	Industrial Plating Corp	EDB-6	FS2133 EDI Sample	EDB-6:GW	Groundwater	Arsenic	4/26/2014	38.2 ug/L	1 PQL			Dissolved	Y	EPA200.8	Fremont Ai	47.5824	-122.327
VCNW3203	Industrial Plating Corp	EDB-7	FS2133 EDI Sample	EDB-7:GW	Groundwater	Arsenic	4/26/2014	25.8 ug/L	1 PQL								

