2022 Annual Report

Fox Avenue Site

Seattle, Washington

Prepared for:
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List of Acronyms and Abbreviations

Acronym/ Abbreviation	Definition
Bgs	Below ground surface
CAP	Cleanup Action Plan
CUL	Cleanup level
CPOC	Conditional point of compliance
CVOC	Chlorinated volatile organic compound
DCE	Dichloroethene
Ecology	Washington State Department of Ecology
ERD	Enhanced reductive dechlorination
Loading Dock	Loading Dock Source Area
µg/L	Micrograms per liter
NW Corner	Northwest Corner Area
PCE	Tetrachloroethene
RL	Remediation Level
Site	Fox Avenue Site
TCE	Trichloroethene
TOC	Total organic carbon
VOC	Volatile organic compound
WBZ	Water Bearing Zone

1.0 Introduction

1.1 PURPOSE OF REPORT

The purpose of this report, prepared by CALIBRE Systems, Inc. (CALIBRE), is to document the cleanup activities and monitoring completed in 2022 at the Fox Avenue Site (the Site; Figure 1.1). The work described in this report was performed in accordance with Agreed Order No. 8985 between Fox Ave LLC and the Washington State Department of Ecology (Ecology; Ecology 2012), as amended (Ecology 2013). Per the Cleanup Action Plan (CAP) for the Site, bio-polishing is to be performed following thermal treatment of the chlorinated volatile organic compounds (CVOCs) until the groundwater remediation level (RL) is met. The Main Source Area was thermally treated as well as the Loading Dock Source Area (Loading Dock). One source area, the Northwest Corner Area (NW Corner), was not thermally treated; instead, this area underwent soil vapor extraction. Thermal treatment occurred from January to May of 2013 and achieved its goal of reducing source-area soil contaminant concentrations to the RL of an average of 10 milligrams per kilogram (mg/kg) or less for the sum of tetrachloroethene (PCE) and trichloroethene (TCE) concentrations. Bio-polishing was implementing in mid-2014 after aquifer temperatures declined following thermal treatment.

1.2 GROUNDWATER CLEANUP STANDARDS AND PERFORMANCE CRITERIA FROM CLEANUP ACTION PLAN

The CAP identifies three environmental media at the Site that were historically impacted from releases of solvents: soil, groundwater, and indoor air. Technology based RLs were established in the CAP for soil and groundwater. Following the established MTCA procedures (WAC 173-340-700) and documented in the CAP, the Site Cleanup Standards are based on two required components;

- Cleanup levels (CULs) and
- Points of compliance (POC)

The CULs establish the concentration based criteria for each site COC which do not threaten human health or the environment and the POC designate the Site location(s) where the CULs must be met. These two conditions are combined to define the Site Cleanup Standards and corresponding performance criteria. The CAP describes additional regulatory requirements which apply to the Site restoration/cleanup actions because of the specific type of actions and Site location. The additional requirements in the CAP include approximate time frames where the different phases of the remedial actions are to be implemented based on progress towards meeting the Cleanup Standards.

The CAP recognizes that all soil and groundwater restoration actions contain uncertainty regarding the rate at which concentration reductions will be achieved (based on technical feasibility and practical experience). Within the CAP, the projected time frames to meet the Cleanup Standards are consistently presented as approximate, or as a range of time frames (e.g.,

10 - 15 years), when discussing and projecting the restoration time frame to meet the different Cleanup Standards.

The groundwater RL was set at a total CVOC concentration of 250 micrograms per liter (µg/L) as measured in wells located downgradient of Fox Avenue S., the conditional point of compliance (CPOC) for groundwater. Per the requirements of the CAP, the groundwater RL is to be achieved at the designated points of compliance within an approximate 10-year restoration time frame following the thermal remediation. Therefore, 2022 represents the ninth year towards this goal.

In addition to the RL for groundwater, the CAP establishes cleanup levels (CULs) for the individual constituents found in groundwater. These CULs are to be achieved at the seeps along the Myrtle Street Embayment within a 10-15 year restoration time frame following thermal treatment (i.e., end of 2028). CULs must also be achieved throughout the plume, from the seeps upgradient to the CPOC along Fox Avenue S. within an estimated restoration time frame of 50 years (i.e., the end of 2063). The Site-wide CULs for groundwater from the CAP are presented in Table 1.1.

The RLs for Site soil were achieved in 2013 as documented in the *Construction Completion Report* (Floyd|Snider 2013). Documentation of the achievement of indoor air CULs, both on- and offsite, is presented in the *Construction Completion Report* as well.

The CAP notes that the cleanup actions using RLs to meet the Cleanup Standards at the designated CPOC are in compliance with the Cleanup Standards, consistent with WAC 173-340-355.

Table 1.1
Site-Wide Cleanup Levels for Groundwater

Chemical of Concern	Seep or Groundwater Cleanup Level (µg/L)
Benzene	51
1,1-DCE	3.2
Pentachlorophenol	3.0
PCE	3.3
TCE	30
TPH (Mineral Spirits- to Heavy Oil-Range)	500
Vinyl Chloride	2.4

Abbreviations:
DCE Dichloroethene
TPH Total petroleum hydrocarbons

2.0 Remedial Actions Implemented in 2022

Bio-polishing actions implemented in 2022 included injection of substrate in selected wells, bio-augmentation, buffer injections and performance monitoring of groundwater. The basic dechlorination steps in the ERD treatment process are shown in Figure 2.1. The following Sections summarize the work completed in 2022. All work was completed in accordance with previously submitted project work plans.

2.1 PERFORMANCE MONITORING

Performance monitoring included the collection of Site-wide groundwater samples in three events spread over July and August 2022. Results from those monitoring events are discussed in Sections 3.0 and 4.0 and historical performance monitoring results are included in Appendix C.

2.2 SUBSTRATE INJECTION

Soluble substrate and an emulsified vegetable oil substrate were injected in March and August 2022. Table 2.1 provides a summary of the substrate injections. The March 2022 injection event focused on the Northwest Corner area and the August 2022 substrate injection focused on the Main Source area, Northwest Corner, Fox Avenue, and Seattle Boiler Works areas.

Table 2.1
Substrate Injection Summary

Well ID	Area	Gallons Injected	Pounds of Substrate Injected
March 2022 Substrate Injections			
R1-IW8	Northwest Corner	500	438
R1-IW9	Northwest Corner	500	492
R1-IW10	Northwest Corner	500	454
R1-IW11	Northwest Corner	500	548
R1-IW12	Northwest Corner	500	575
R1-IW13	Northwest Corner	500	569
R1-IW14	Northwest Corner	500	515
R1-IW15	Northwest Corner	500	523
	Total	**4,000**	**4,113**

R1-IW8 and R1-IW10 were injected with 100 gallons of Newmans Zone 55 vegetable oil emulsion diluted to a 6% solution and R1-IW9 injected with 300 gallons of the 6% solution prior to substrate injections. Each northwest corner well listed above was injected with 1.6 liters of TSI-DC Dehaloccoides (DHC) bioaugmentation culture following substrate injections.

Well ID	Area	Gallons Injected	Pounds of Buffer Injected
August 2022 Buffer Injections			
R0-IW1D	Main Source Area	500	20
R0-IW2D	Main Source Area	500	20
R0-IW3D	Main Source Area	250	10
R0-IW7D	Main Source Area	250	10
	Total	**1,500**	**60**

Well ID	Area	Gallons Injected	Pounds of Substrate Injected
August 2022 Substrate Injections			
R1-IW8	Northwest Corner	500	527
R1-IW9	Northwest Corner	250	201
R1-IW10	Northwest Corner	500	708
R1-IW11	Northwest Corner	500	427
R1-IW12	Northwest Corner	500	483
R1-IW13	Northwest Corner	500	635
R1-IW14	Northwest Corner	500	614
R1-IW15	Northwest Corner	500	585
R1-IW2	Fox Avenue	500	687
R1-IW3a	Fox Avenue	500	554
R1-IW4a	Fox Avenue	500	598
R1-IW5	Fox Avenue	500	535
R2-IW10	Seattle Boiler Works	1,957	1,792
R2-IW11	Seattle Boiler Works	1,955	1,787
	Total	**9,662**	**10,134**

3.0 Groundwater Monitoring Data

3.1 SAMPLING PROCEDURES

Per Ecology's request, the 2022 sampling list was increased from approximately 23 samples typically collected over recent years up to 43 samples collected during 2022. Samples were collected in July and August 2022 prior to the substrate injection event completed in August 2022. Samples from all wells were collected using low-flow sampling procedures in accordance with the project work plans. In addition, three seeps in the Myrtle Street Embayment were sampled for volatile organic compounds (VOCs) during a minus tide on July 13, 2022. All samples were analyzed for the designated list of Site VOCs and selected wells were additionally analyzed for total organic carbon (TOC) as an indicator of remaining substrate availability. Field sample data sheets are included in Appendix A.

All samples were delivered under chain-of-custody to Fremont Analytical for analysis of VOCs and TOC. The laboratory data packages are included in Appendix B. All investigation-derived waste from sampling was containerized and managed in accordance with the project work plans.

3.2 SUMMARY OF DATA FROM GROUNDWATER SAMPLING

The 2022 CVOC data are presented in Table 3.1. Recent benzene data collected from wells throughout the Site are presented in Table 3.2. The 2022 data for CVOCs is included as tabulated time series in Appendix C for the wells sampled in 2022 along with other relevant wells throughout the plume.

3.3 QUALITY ASSURANCE REVIEW AND ENVIRONMENTAL INFORMATION MANAGEMENT LOADING

A quality assurance review was performed by CALIBRE on the analytical laboratory reports received. The review concluded that all of the laboratory data were deemed acceptable for use. All data have subsequently been uploaded to Ecology's Environmental Information Management (EIM) database.

4.0 Summary and Discussion of Groundwater Monitoring Data

Performance monitoring data collected in 2022 are discussed in this Section by treatment area. The 2022 data included 43 samples collected from wells in both Water Bearing Zones (WBZs) along with three seeps at the Myrtle St. embayment. Prior Site monitoring data has demonstrated a significant number of wells throughout the Site with reduced total chlorinated volatile organic compounds (CVOC) concentrations (e.g., 99.9% reductions, see times-series data in Appendix C). The recent sampling events (2019 through 2021) were completed to focus on the remaining wells with elevated CVOC concentrations; specifically focusing on those locations considered necessary to demonstrate compliance and for remedial optimization of the continued remedial actions. Ecology requested an expanded monitoring list in 2022. The most recent 2022 data show four samples of the 43 collected are above the RL of 250 µg/L total CVOCs; each of these four wells are upgradient of the CPOC, and the seep data show all concentrations below the cleanup level (CUL) of 2.4 µg/L for vinyl chloride (VC). All wells along Fox Avenue (the CPOC) meet the RL and 17 of the 19 locations sampled downgradient of Fox Avenue are also below the CULs.

These 2022 sampling results demonstrate all locations sampled meet the Cleanup Standard from the CAP and are consistent with prior results and trends over the last several years:

- In 2019, all samples downgradient of the CPOC were below the RL and the seep samples were approaching the CULs, but still slightly above the criteria with consistent downward trends (CALIBRE 2021a).
- The 2020 sampling demonstrated all samples downgradient of Fox Ave were below the RL and all seeps were also below the CULs, one location on Fox Ave remained above the RL (CALIBRE 2021a).
- The 2021 sampling demonstrated all samples downgradient of Fox Ave were below the RL and all seeps were below the CULs (CALIBRE 2021b); all locations sampled meet the Cleanup Standard from the CAP.

Considering the current 2022 sampling results, and the trends from 2019 to 2022, the Site remediation is progressing as designed and it is on schedule when compared to the projected restoration time frames in the FS and CAP.

Figure 4.1 presents the sum of the four key CVOCs (PCE, TCE, cis-1,2-DCE, and VC) in the 1st and 2nd WBZ Site-wide wells from the 2022 sampling. The total CVOCs is the specific performance criterion for comparison with the RL of 250 µg/L.

4.1 MAIN SOURCE AREA AND DOWNGRADIENT TO FOX AVENUE S.

Aquifer conditions for both the 1st and 2nd WBZs are evaluated by comparing groundwater data collected from injection and monitoring wells to baseline data. Post-thermal baseline data were collected prior in July 2014. Bioremediation activities in the Main Source Area followed thermal treatment that ended in May 2013.

Data through 2022 continue to indicate effective bioremediation in the Main Source Area, former Whitehead Property and Fox Avenue S. Of the 19 wells in the 1st and 2nd WBZs sampled, eight are below CULs and only source area well R0-IW3D had total CVOC concentrations greater than the Site RL of 250 µg/L. Total CVOC concentrations at this well were 566 µg/L. Daughter products cis-1,2-DCE, trans-1,2-DCE, and VC represent 99% of the total CVOCs detected in 2022 at R0-IW3D; daughter products previously represented approximately 25% of total CVOCs in the 2014 baseline samples. This well, along with source-area wells R0-IW1D, R0-IW2D, and R0-IW7D were injected with buffer solution in August 2022 following evaluation of the performance monitoring results. pH ranged from 4.53 to 5.20 in this area which is below the neutral pH range preferred by dechlorinating bacteria and TOC was elevated (1,250 to 3,940 mg/L) indicating additional substrate was not currently required. Therefore, a buffer solution of monopotassium phosphate and tap water was injected into these wells to help raise pH to a neutral level.

Total CVOCs for the remaining wells sampled in these areas range from non-detect to 160 µg/L with CVOC reductions ranging from 91% to 99.99+% from historical results. Figure 4.2 shows the wells sampled in these areas along with percent reduction from prior CVOCs and current status regarding compliance with RL or CULs. Focused substrate injections were completed downgradient of the source area along Fox Avenue in 1st WBZ wells R1-IW2, R1-IW3a, R1-IW4a, and R1-IW5 in August 2022. This round of substrate injections in this area was implemented to continue driving the CVOC concentrations toward the CUL.

4.2 NW CORNER

In the NW Corner, CVOCs are only found in 1st WBZ groundwater based on prior monitoring events. Wells sampled in the 1st WBZ in 2022 showed total CVOC concentrations above the RL of 250 µg/L in wells R1-IW9 at 827 µg/L, B-54 at 653 µg/L, and B-66 at 416 µg/L; all other wells sampled in this area were below the RL. Well R1-IW9 showed a significant decrease in PCE from 480 µg/L in 2021 to 11.4 µg/L in 2022 along with increases in PCE daughter products cis-1,2-DCE and VC. The significant increase in cis-1,2-DCE (778 µg/L in 2022 up from 57.8 µg/L in 2021) is a definitive indicator of PCE dechlorination however because VC showed marginal increases over this same period, this area may be experiencing “cis-stall”, due to low pH. R1-IW9 did receive additional buffer solution in August 2022 to address the reduced pH. Future performance monitoring data will be useful to evaluate whether cis-1,2-DCE is continuing dechlorination to VC in this area. Additionally, a DHC census sample from R1-IW9 to evaluate dechlorinating bacteria populations may be beneficial.

The NW Corner area underwent focused treatment by injection of additional substrate, and bio-augmentation in March 2022 following evaluation of the 2021 performance monitoring results (see Table 2.1). The bio-augmentation was completed with a TSI-DC Bio-Augmentation Culture (TSI-DC®), a microbial culture containing species of Dehalococcoides. For the bio-augmentation process, tap water was mixed with sodium ascorbate following the manufacturer’s recommendations to remove dissolved oxygen and chlorine. A pre-determined amount of TSI-DC® was added to the de-oxygenated water and then transferred into the screen interval following the substrate addition for the wells. The quantity of TSI-DC® added to each well was

based on a target abundance of 3 x 10^6 organisms/liter (in-situ after mixing), an estimated radius of influence, thickness of the water column, and estimated porosity of the surrounding soils. The bio-augmentation included 13 liters of split between the eight injection wells (the stock TSI-DC® culture is delivered with a Dehalococcoides abundance of 10^{11} cells/liter). Focused treatment by injection of additional substrate was also completed in August 2022 in this area following receipt and review of the July/August 2022 performance monitoring results.

Monitoring wells B-54 and B-66, located upgradient of R1-IW9, were monitored in August 2022 and both wells showed elevated PCE concentrations similar to R1-IW9 in 2021. In addition, both B-54 and B-66 showed low cis-1,2-DCE concentrations and VC was non-detect. Due to the positive results at R1-IW9 in 2022 (showing complete dechlorination of PCE to VC) it is recommended these upgradient wells be registered through the Underground Injection Control (UIC) program and added to the next injection event for this area. Both biostimulation and bio-augmentation would be completed at these two wells. In addition, continued biostimulation should be considered after review of the next sampling results using wells R1-IW8, R1-IW9, R1-IW10, R1-IW11, R1-IW12, R1-IW13, R1-IW14, and R1-IW15.

4.3 DOWNGRADIENT OF FOX AVENUE

Wells downgradient of Fox Avenue are located in the Seattle Boiler Works property and in Myrtle Street. Results from all 19 sampled wells in these areas show compliance with the RL and 17 of the 19 wells are also below the CULs. CVOC reductions range from 92% to 99.99+% at the wells sampled in these areas.

Focused treatment by injection of additional substrate was completed in wells R2-IW10 and R2-IW11 in August 2022. These wells are located upgradient of monitoring well MW-6 which is the only well in SBW that remains above CULs; all wells are in compliance with the RL. The need/benefit of continued ERD treatment will be evaluated with future monitoring data.

4.4 SEEPS

The CVOCs at the three embayment seeps met the CULs in 2022 with total CVOC concentrations ranging from 0.54 µg/L to 2.27 µg/L. This is the third consecutive monitoring event where the CULs have been met at the seeps. The vinyl chloride concentrations in the seeps are shown in Table 4.1. The sampling data from the seeps S-3 and S-3b over the last several years are presented in Figures 4.3 and 4.4 which continue to show a steady decline over time and measured concentrations remain below the CULs. Limited continued performance monitoring is recommended in the areas directly upgradient to evaluate the need for continued ERD treatment.

Table 4.1
Post-Thermal Vinyl Chloride Concentrations in the Seeps

Seep	2014 (µg/L)	2015 (µg/L)	2016 (µg/L)	2017 (µg/L)	2018 (µg/L)	2019 (µg/L)	2020 (µg/L)	2021 (µg/L)	2022 (µg/L)
S-2	ND	30.9	7.4	4.4	ND	NS	NS	NS	ND
S-3	372	7.5	27.1	13.3	11.7	2.9	1.3	0.42	ND
S-3b	136	72.8	46.4	10.9	39.8	3.9	2.3	ND	ND
S-4	ND	ND	ND	NS	NS	NS	NS	NS	NS

Abbreviations:
ND Non-detect
NS Not sampled

5.0 Recommendations

Recommendations for 2023 are as follows:

1. Collect additional performance monitoring data in the NW Corner area around R1-IW9 to evaluate cis-stall and, if the data indicate the need, collect census data to evaluate dechlorinating bacteria populations.
2. Register B-54 and B-66 through the UIC program and add these wells to the next injection event for the NW Corner area. Both biostimulation and bio-augmentation would be completed at these two wells.
3. Repeat the Site-wide groundwater monitoring event again in Spring 2023. Recommend monitoring at similar wells for the Site as was completed in 2021 rather than the sampling list used in 2022; this prior list (from 2021) is focused on wells and areas driving the need for remedial actions (continued ERD treatment). The monitoring event will be coordinated with a low tide in day-light hours to access the seeps. The recommended list of wells for sampling along with target analytes is presented in Table 5.1.
4. Specific wells to be targeted for treatment in Summer 2023 will be identified after review of the data following the Spring 2023 groundwater sampling and comparison with performance criteria in the CAP.

6.0 References

CALIBRE 2021a. 2019-2020 Annual Report Fox Avenue Site Seattle, Washington. Prepared for Fox Avenue Building LLC, Seattle, Washington. February 2021.

CALIBRE 2021b. 2021 Annual Report Fox Avenue Site Seattle, Washington. Prepared for Fox Avenue Building LLC, Seattle, Washington. October 2021.

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Washington State Department of Ecology 2012. *Agreed Order No. DE 8985 in the Matter of Remedial Action by Fox Avenue Building, LLC*. 18 June.

Washington State Department of Ecology 2013. *Amendment to Agreed Order No. DE 8985 in the Matter of Remedial Action by Fox Avenue Building, LLC*. 08 May.

Tables

Table 3.1 - 2022 Summary of Volatile Organic Compound Data in Groundwater

	WBZ	Sample Depth	Analyte	PCE		TCE		cis-1,2-DCE		trans-1,2-DCE		Vinyl chloride		Total CVOCs	TOC
Current CUL				***3.3***		***30***		**--**		**--**		***2.4***			
AWQC from WAC 173-201a-240				***7.1***		***0.86***		**--**		**--**		***0.26***			
Location		**ft bgs**	**Sample Date**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	**mg/L**
Source Area															
R0-IW02D	2nd	62	7/19/2022	<0.4	U	<0.5	U	18.8		<0.5	U	<0.2	U	**18.8**	--
R0-IW3D	2nd	63	7/19/2022	7.11		<0.5	U	277		2.47		279		**566**	3,940
R0-IW7D	2nd	63	7/19/2022	5.78		11.4		98.2		1.72		42.8		**160**	1,250
MW-18S	1st	18	7/19/2022	3.20		0.873		41.6		1.06		52.8		**99.5**	--
MW-16D	2nd	63	8/22/2022	0.41		<0.5	U	0.76		<0.5	U	<0.2	U	**1.16**	--
Whitehead															
MW-10	2nd	28	7/19/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
MW-9	1st	11	7/19/2022	<0.4	U	<0.5	U	19.0		1.10		45.8		**65.9**	8.45
MW-9 (DUP)	1st	11	7/19/2022	<0.4	U	<0.5	U	19.2		1.58		57	E	**77.8**	--
MW-7	1st	12	7/19/2022	<0.4	U	<0.5	U	0.523		<0.5	U	<0.2	U	**0.52**	--
B-49	1st	13.5	7/19/2022	5.28		1.34		0.881		<0.5	U	2.23		**9.73**	--
Northwest Corner															
NW1-1	1st	11	7/18/2022	<0.4	U	<0.5	U	47.3		<0.5	U	77.1		**124**	--
B-22	1st	10	7/18/2022	86.2		19.1		79.9		0.663		4.94		**191**	--
B-22 (DUP)	1st	10	7/18/2022	91.3		18.2		83.1		<5	U	<2	U	**193**	--
R1-IW9	1st	11	7/18/2022	11.4		4.82		778		6.78		26.4		**827**	445
R1-IW12	1st	11	7/19/2022	<0.4	U	<0.5	U	66.2		<0.5	U	72		**138**	26.6
B-54	1st	12	8/22/2022	617	E	22		13.5		<0.5	U	<0.2	U	**653**	--
B-54 (dupe)	1st	12	8/22/2022	602		21.8		14		<0.5	U	<0.2	U	**638**	--
B-66	1st	14	8/22/2022	374	E	35		7.39		<0.5	U	<0.2	U	**416**	--
Fox Avenue Row 1 Injection Transect															
R1-IW3a	1st	10	8/22/2022	0.62		<0.5	U	50.7	D	<0.5	U	14.6		**65.9**	--
R1-IW4a	1st	11	7/18/2022	<0.4	U	<0.5	U	2.98		<0.5	U	2.66		**5.64**	16.0
B-20a	1st	14	7/18/2022	<0.4	U	<0.5	U	35.0		1.54		4.83		**41.4**	--
B-19	2nd	45	7/18/2022	<0.4	U	<0.5	U	8.96		<0.5	U	9.64		**18.6**	--
B-18	1st	14	8/22/2022	0.54		<0.5	U	32		<0.5	U	73.8	D	**106**	--
Fox Avenue Row 1 Monitoring Transect															
B-58	1st	11	7/18/2022	59	E	11.8		30.4		<0.5	U	7.62		**109**	--
B-60	1st	11	8/22/2022	0.86		1.35		17.7		<0.5	U	0.48		**20.4**	--
B-61	2nd	42	8/22/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
B-62	1st	11	8/22/2022	1.11		<0.5	U	<0.5	U	<0.5	U	<0.2	U	**1.11**	--
B-63	2nd	42	8/22/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
Seattle Boiler Works															
R2-IW1	1st	17	7/13/2022	<0.4	U	<0.5	U	2.61		<0.5	U	0.811		**3.42**	350
R2-IW1	2nd	45	7/13/2022	<0.4	U	<0.5	U	2.65		<0.5	U	0.864		**3.51**	389
R2-IW2	1st	17	7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
R2-IW2	2nd	45	7/18/2022	<0.4	U	<0.5	U	3.22		<0.5	U	<0.2	U	**3.22**	--
R2-IW9	1st	12	7/18/2022	<0.4	U	0.567		1.72		<0.5	U	<0.2	U	**2.29**	--
R2-IW10	2nd	37	8/22/2022	<0.4	U	<0.5	U	1.66		<0.5	U	0.51		**2.17**	--
MW-3	1st	10	7/18/2022	1.77		1.31		1.31		<0.5	U	<0.2	U	**4.39**	--
MW-4	2nd	40	7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
MW-5	1st	13	8/22/2022	0.41		<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.41**	--
MW-6	2nd	40	7/13/2022	9.23		8.0		57.6		0.596		0.943		**76.4**	--
DUP (MW-6)	2nd	40	7/13/2022	10.1		8.2		62	E	0.791		1.09		**82.1**	--
Myrtle St															
R2-IW6	2nd	45	7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
B-35	2nd	27	7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--
B-64	1st	10	7/18/2022	<0.4	U	<0.5	U	1.15		<0.5	U	<0.2	U	**1.15**	--
B-33a	2nd	30	7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0**	--

Table 3.1 - 2022 Summary of Volatile Organic Compound Data in Groundwater

	WBZ	Sample Depth	Analyte	PCE		TCE		cis-1,2-DCE		trans-1,2-DCE		Vinyl chloride		Total CVOCs	TOC	
Current CUL				***3.3***		***30***		**--**		**--**		***2.4***				
AWQC from WAC 173-201a-240				***7.1***		***0.86***		**--**		**--**		***0.26***				
Location		**ft bgs**	**Sample Date**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	**mg/L**	
Embayment Seeps																
SP-02	--	--	7/13/2022	<0.4	U	<0.5	U	0.581		<0.5	U	<0.2	U	**0.58**	--	
SP-03	--	--	7/13/2022	<0.4	U	<0.5	U	2.27		<0.5	U	<0.2	U	**2.27**	--	
SP-03b	--	--	7/13/2022	<0.4	U	<0.5	U	0.542		<0.5	U	<0.2	U	**0.54**	--	

Abbreviations:

--	Not analyzed or not established
DCE	Dichloroethene
PCE	Tetrachloroethene
TCE	Trichloroethene
TOC	Total Organic Carbon
µg/L	Micrograms per liter
ft bgs	feet below ground surface
WBZ	water bearing zone
CUL	Cleanup Level
AWQC	Ambient Water Quality Criteria

Qualifiers:

D	Sample was diluted
U	Non-detect
E	Value above quantitation range

Table 3.2 - Summary of Recent Benzene Data in Groundwater

	WBZ	Sample Depth	2018 Benzene		2019 Benzene		2020 Benzene		2021 Benzene		2022 Benzene	
Location		**ft bgs**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	
Source Area												
R0-IW02D	2nd	62	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
R0-IW3D	2nd	63	--		--		--		<0.44	U	<0.44	U
R0-IW4D	2nd	63	--		--		1.86		--		--	
R0-IW4S	1st	17	--		--		<1.00	U	--		--	
R0-IW6D	2nd	63	<1.00	U	--		--		--		--	
R0-IW7D	2nd	63	--		--		<10.0	U	<0.44	U	<0.44	U
R0-IW9S	1st	18	<1.00	U	--		--		--		--	
MW-15D	2nd	63	<1.00	U	--		--		--		--	
MW-16D	2nd	63	<1.00	U	--		--		--		<0.44	U
MW-17D	2nd	63	5.87		--		--		--		--	
MW-18S	1st	18	<1.00	U	<1.00	U	<1.00	U	0.81		<0.44	U
Whitehead												
MW-9	1st	11	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
MW-10	2nd	28	<1.00	U	--		--		--		<0.44	U
MW-7	1st	12	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
MW-8	2nd	28	<1.00	U	--		--		--		--	
B-49	1st	13.5	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
B-45	2nd	45	<1.00	U	--		--		--		--	
Northwest Corner												
B-54	1st	12	--		--		--		--		<0.44	U
B-66	1st	14	--		--		--		--		<0.44	U
NW1-1	1st	11	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
B-22	1st	10	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
B-57	1st	13	--		--		--		<0.44	U	--	
R1-IW9	1st	11	--		--		--		<0.44	U	<0.44	U
R1-IW12	1st	11	--		--		--		--		<0.44	U
Fox Avenue Row 1 Injection Transect												
R1-IW3a	1st	10									<0.44	U
R1-IW4a	1st	11	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
R1-IW4b	2nd	50	<1.00	U	--		--		--		--	
R1-IW7	2nd	41	<1.00	U	--		--		--		--	
B-20a	1st	14	<1.00	U	<1.00	U	9.22		<0.44	U	<0.44	U
B-18	1st	14	1.39		--		--		--		1.51	
B-19	2nd	45	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
R1-IW15	2nd	55	<1.00	U	--		--		--		--	
R1-IW17	1st	12	<1.00	U	--		--		--		--	
R1-IW17	2nd	55	<1.00	U	--		--		--		--	

Table 3.2 - Summary of Recent Benzene Data in Groundwater

	WBZ	Sample Depth	2018 Benzene		2019 Benzene		2020 Benzene		2021 Benzene		2022 Benzene	
Location		**ft bgs**	**µg/L**		**µg/L**		**µg/L**		**µg/L**		**µg/L**	
Fox Avenue Row 1 Monitoring Transect												
B-58	1st	11	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
B-59	2nd	27	<1.00	U	--		--		--		--	
B-60	1st	11	<1.00	U	--		--		--		<0.44	U
B-61	2nd	42	1.59		--		--		--		0.58	
B-62	1st	11	--		--		--		--		<0.44	U
B-63	2nd	42	3.73		--		--		--		0.60	
In SBW												
R2-IW1	1st	17	1.29		<1.00	U	<1.00	U	0.55		0.52	
R2-IW1	2nd	45	1.43		<1.00	U	4.67		0.65		0.56	
R2-IW2	1st	17	--		--		--		--		<0.44	U
R2-IW2	2nd	45	--		--		--		--		<0.44	U
R2-IW8	2nd	63	1.17		--		--		--			
R2-IW9	1st	12	--		--		--		--		<0.44	U
R2-IW10	2nd	37	--		--		--		--		<0.44	U
MW-3	1st	10	--		--		--		--		<0.44	U
MW-4	2nd	40	--		--		--		--		<0.44	U
MW-5	1st	10	<1.00	U	--		--		--		<0.44	U
MW-6	2nd	40	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
Myrtle St												
B-35	2nd	27	2.51		1.84		<1.00	U	0.45		<0.44	U
R2-IW6	2nd	45	--		--		--		--		1.24	
B-64	1st	10	<1.00	U	<1.00	U	<1.00	U	<0.44	U	<0.44	U
B-65	2nd	30	2.20		<1.00	U	<1.00	U	<0.44	U	--	
B-33a	2nd	30	9.77		7.09		4.89		3.78		4.4	
Embayment Seeps												
SP-02	--	--	<1.00	U	--		--		--		<0.44	U
SP-03	--	--	7.34		3.96		2.94		2.34		1.35	
SP-03b	--	--	1.27		<1.00	U	<1.00	U	0.68		0.59	

Abbreviations:

--	Not analyzed
µg/L	Micrograms per liter
ft bgs	feet below ground surface
WBZ	water bearing zone

Qualifiers:

U	Non-detect

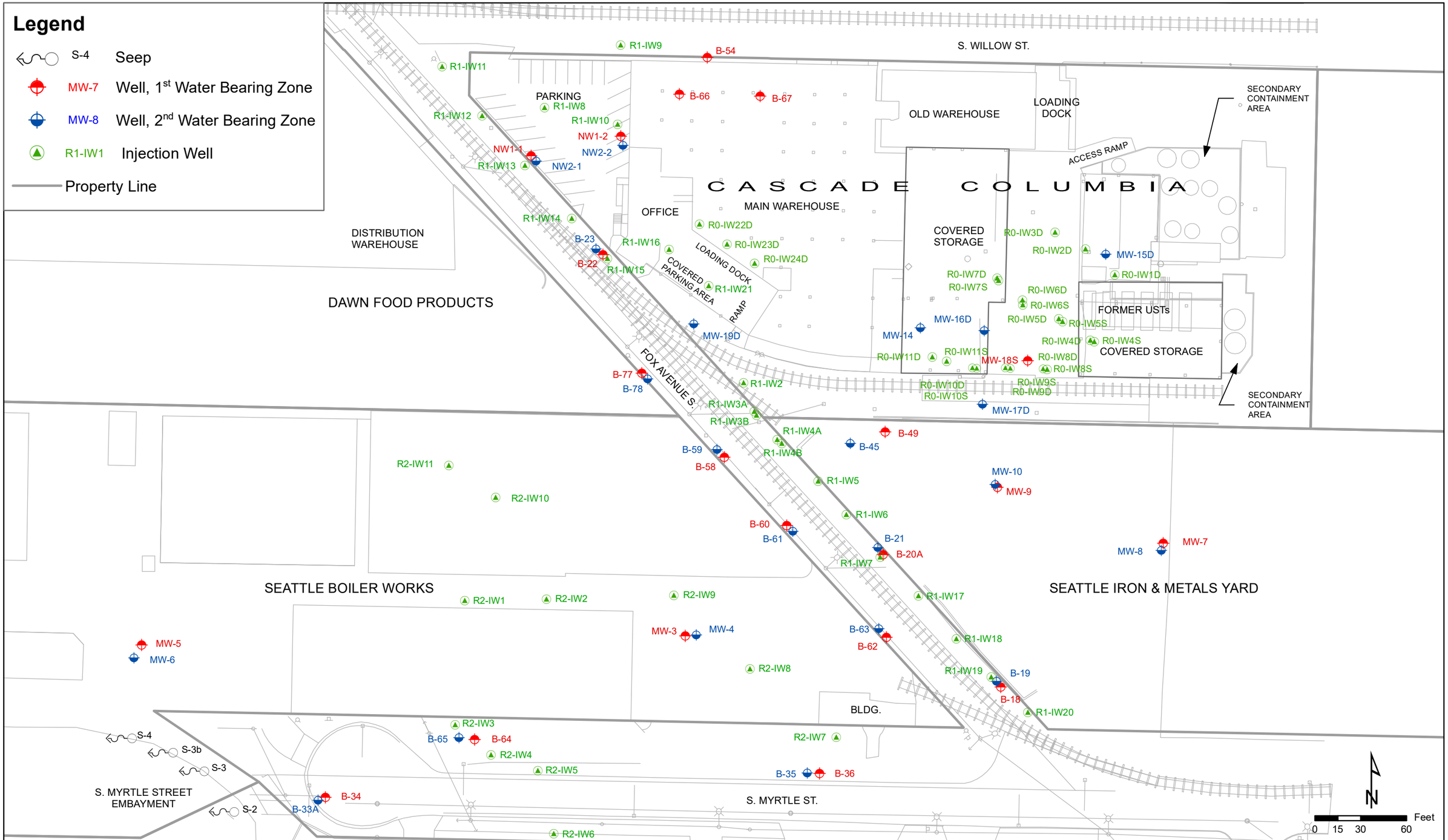
Table 5.1 - Spring 2023 Proposed Sample List

	WBZ	2022 Total CVOCs (µg/L)	2023 Sample VOCs	2023 Sample TOC
Location				
Main Source Area				
R0-IW02D	2nd	18.8	X	
R0-IW03D	2nd	566	X	X
R0-IW07D	2nd	160	X	X
MW-18S	1st	99.5	X	
Whitehead				
MW-9	1st	77.8	X	X
MW-7	1st	0.52	X	
B-49	1st	9.73	X	
Northwest Corner				
NW1-1	1st	124	X	
B-22	1st	193	X	
R1-IW9	1st	827	X	X
R1-IW12	1st	138	X	X
B-54	1st	653	X	
B-66	1st	416	X	
Fox Avenue				
R1-IW3a	1st	65.9	X	X
B-20a	1st	41.4	X	
B-18	1st	106	X	
B-19	2nd	18.6	X	
B-58	1st	109	X	
Seattle Boiler Works				
R2-IW1	1st	3.42	X	X
R2-IW1	2nd	3.51	X	X
MW-6	2nd	82.1	X	
Myrtle Street				
B-35	2nd	ND	X	
B-64	1st	1.15	X	
B-33a	2nd	ND	X	
Embayment Seeps				
SP-03	--	2.27	X	
SP-03b	--	0.54	X	

Abbreviations:

CVOC	Chlorinated volatile organic compound
TOC	Total organic carbon
µg/L	Micrograms per liter
VOC	Volatiles organic compound
WBZ	Water bearing zone
ND	non-detect
--	Not analyzed

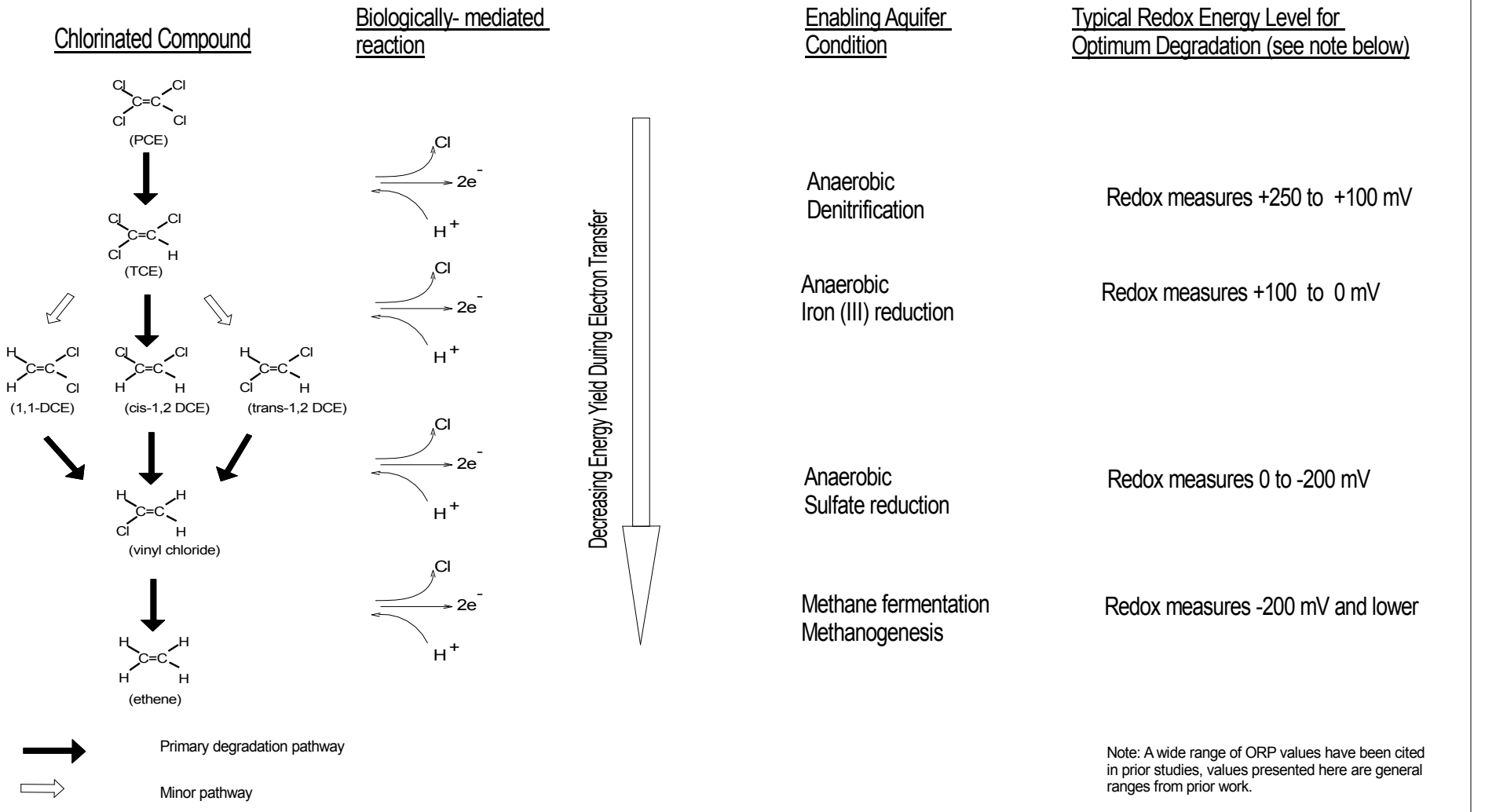
Figures



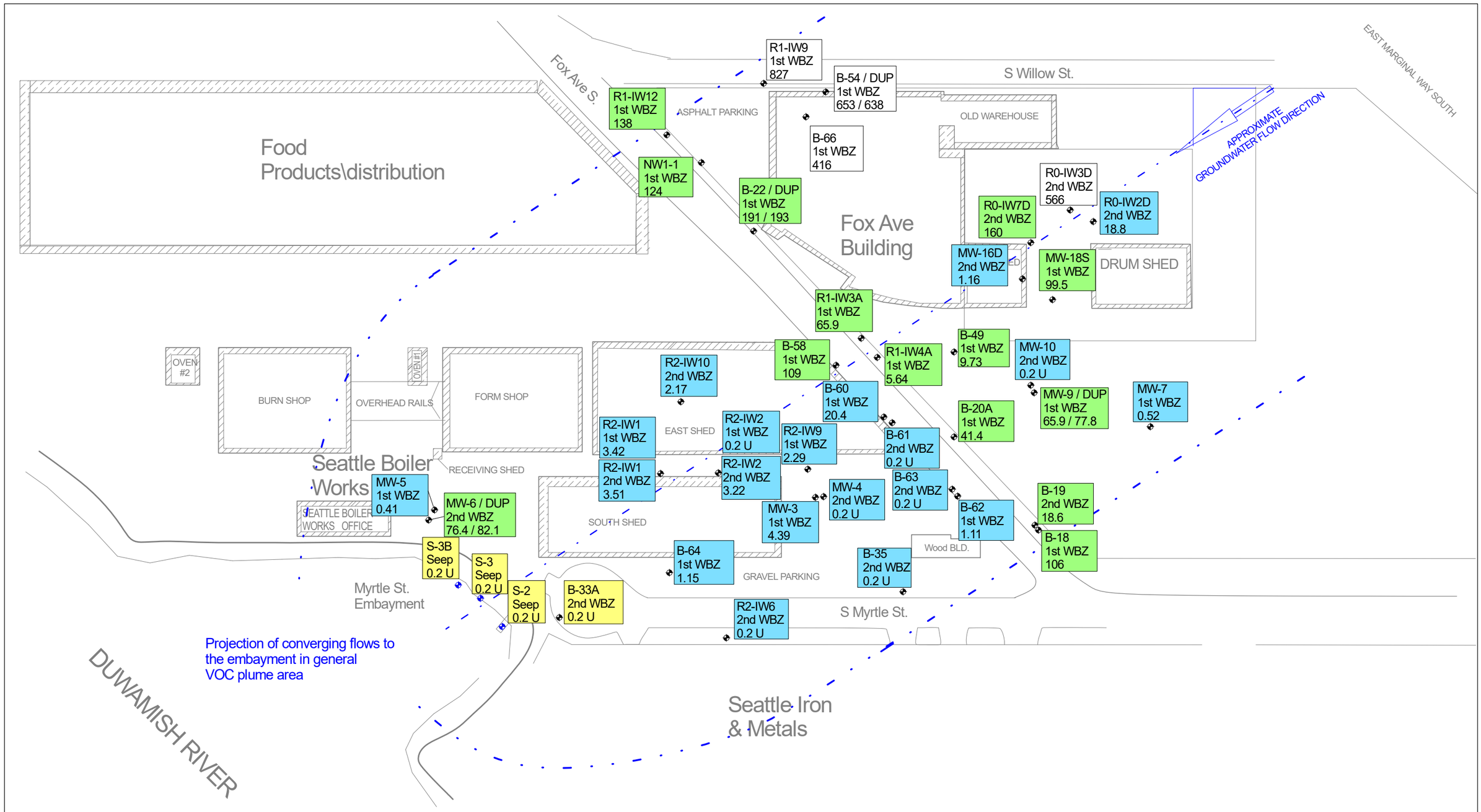
CALIBRE

2022 Monitoring Summary
Fox Avenue Site
Seattle, Washington

Figure 1.1
Site Plan



CALIBRE Systems Inc.	ERD Degradation Processes Fox Avenue Site Seattle, Washington	Figure 2.1 Primary Degradation Pathways of Chlorinated Ethenes by Reductive Dechlorination



CALIBRE

Legend

Text in green box represents CVOCs below Remediation Level of 250 ug/L.

Text in blue box represents CVOCs below Remediation Level and Cleanup Levels.

Text in yellow box represents VC below Cleanup Levels, data in boxes are 7/22 VC concentrations.

Notes:
- Thermal treatment period from Jan-May 2013
- Total CVOCs include tetrachlorethene (PCE), trichloroethene (TCE), vinyl chloride (VC), and cis-1,2-dichloroethene (cis-DCE).

  Data presented are from the July 2022 sampling event.
- All data in ug/L.

0 30' 60' 120'
SCALE IN FEET

N

Figure 4.1
2022 Total CVOC Concentrations in Groundwater
1st and 2nd Water Bearing Zones
July/August 2022

Historical VOC plume boundaries, this area is 1st WBZ only

Food Products\distribution

Fox Ave S.

S Willow St.

EAST MARGINAL WAY SOUTH

APPROXIMATE GROUNDWATER FLOW DIRECTION

R1-IW9 above RL

B-54 above RL

B-66 above RL

PARKING

Fox Ave Building

OLD WAREHOUSE

R1-IW12 80.6%

NW1-1 93%

B-22 83%

R0-IW3D above RL

R0-IW2D 99.3%

R0-IW7D 91%

A

A'

WEST SHED

DRUM SHED

MW-16D 99.98%

MW-18S 95%

R1-IW3A 99%

R1-IW4A 99.96%

B-49 99.2%

B-58 99.5%

B-60 99.95%

B-61 99.99%

B-20a 97%

MW-10 99.99%

MW-9 98%

MW-7 99.9%

OVEN #2

OVEN #1

OVERHEAD RAILS

FORM SHOP

Seattle Boiler Works

EAST SHED

R2-IW10 99.93%

R2-IW1 99.98%

R2-IW2 99.97%

R2-IW9 99.8%

B-63 99.99%

B-62 99.6%

MW-4 99.99%

MW-3 99.8%

B-19 98%

B-18 97%

SEATTLE BOILER WORKS OFFICE

MW-5 99.7%

MW-6 92%

SOUTH SHED

B-64 99.9%

GRAVEL PARKING

B-35 99.99%

S Myrtle St.

S Myrtle St.

S-3b 99.9%

S-3 99.9%

S-2 98.3%

B-33A 99.99%

R2-IW6 99.99%

Myrtle St. Embayment

DUWAMISH RIVER

Seattle Iron & Metals

Historical VOC plume boundaries, prior to start of Interim Actions and CAP Implementation

CALIBRE

Legend

- Site Well **Below Cleanup Levels (CULs)**
  Cleanup Levels from the CAP:
  PCE = 3.3 ug/L
  TCE = 30 ug/L
  VC = 2.4 ug/L
- Site Well Below Remediation Level
  RL, <250 ug/L total CVOCs from the CAP
- A ___ A' Cross Section Line
- RI historical plume, pre-CAP implementation 1st and 2nd WBZ
- RI historical plume, pre-CAP implementation 1st WBZ

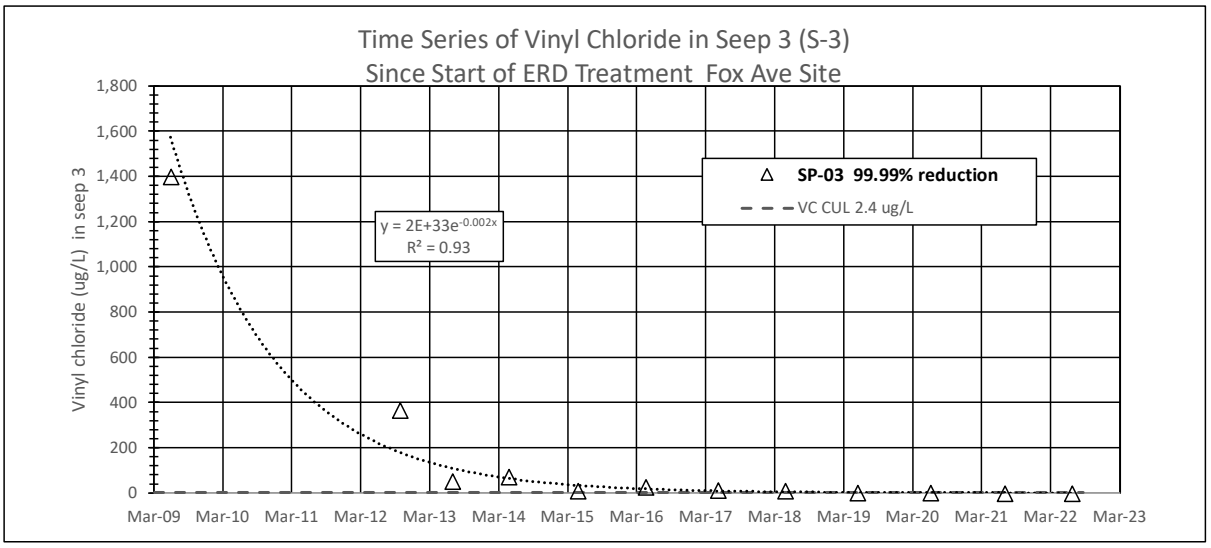
Notes:
- Percentage noted below well represents the percent reduction in total CVOCs from historical concentrations to most recent sampling event at each well (i.e., historical concentration of 1,000 ug/L reduced to 1 ug/L represents a 99.9% reduction).
- Wells posted include both 1st and 2nd water bearing zone wells.

0 30' 60' 120'
SCALE IN FEET

N

Figure 4.2
Site Wide Wells Meeting Site Remediation Level and/or Cleanup Levels Established in the CAP

Figure 4.3 Time Series of Vinyl Chloride in Seep S-3



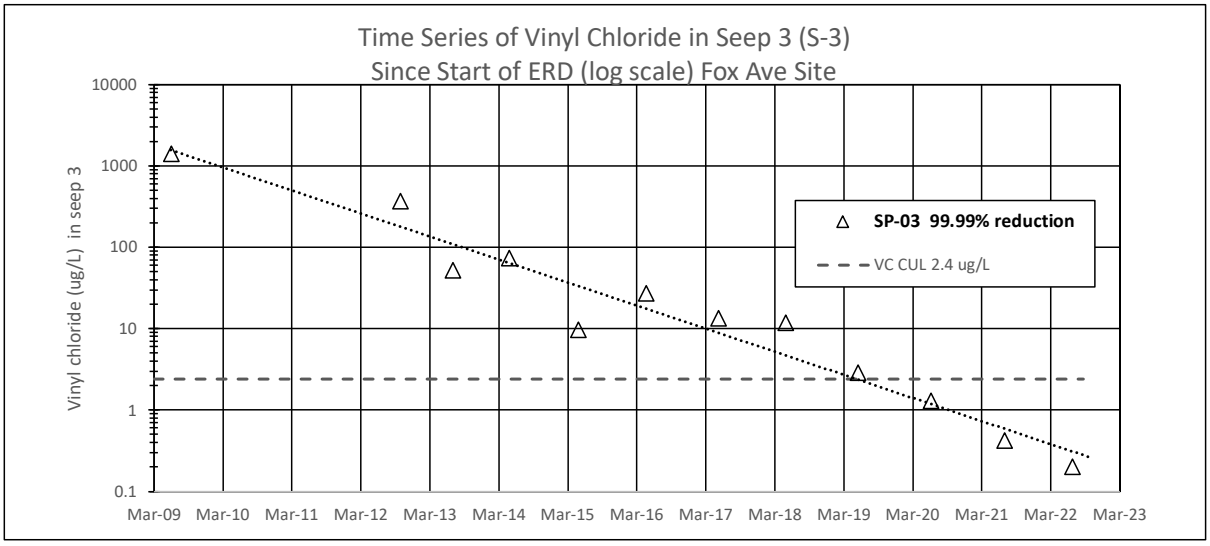
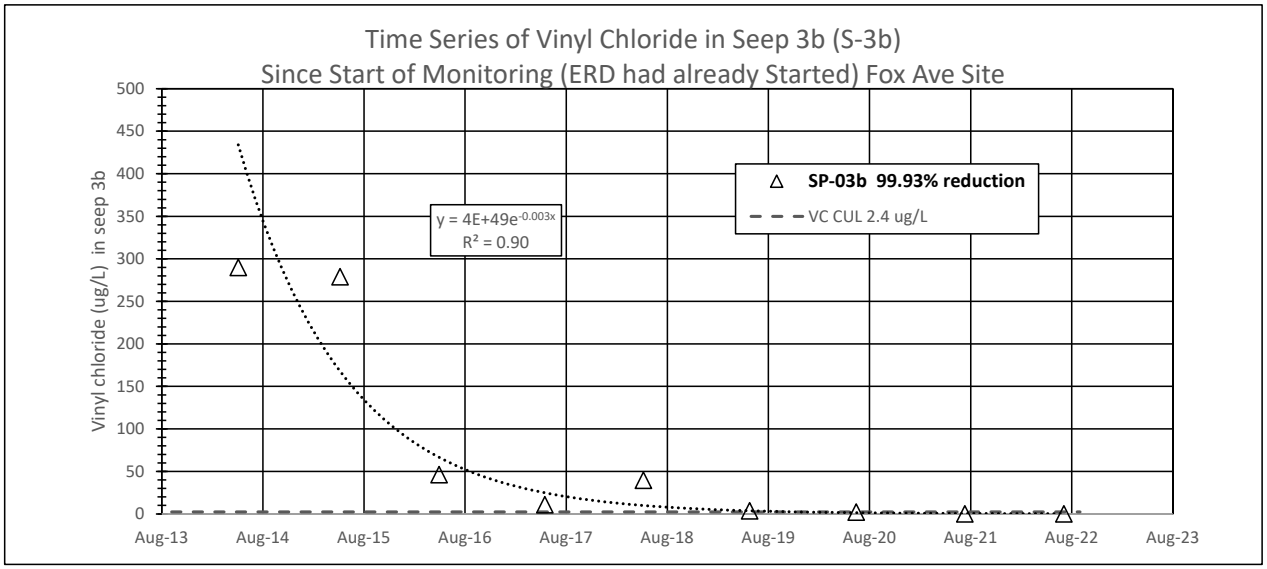
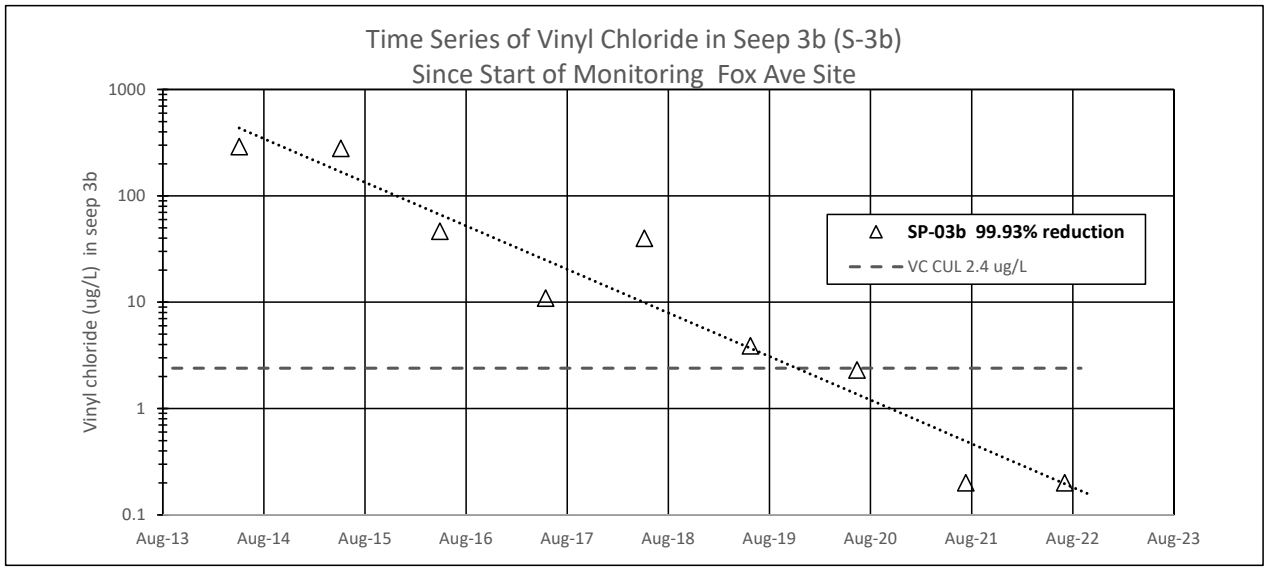


Figure 4.4 Time Series of Vinyl Chloride in Seep S-3b





Appendix A

Field Sampling Data Sheets

Well Sampling Data Sheet

Date	7/13/22	Site Location	Fox Ave - SBW
Samplers	JN CW	Well ID	MW-6
Casing Material	PVC	Constructed Depth	40
Casing Diameter	2"	Condition of Well	ok

Field Measurements:

Time	0950	Depth Measured From:	
Depth to Water	14.26		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information: Waterra

Pump:		Dedicated	X	Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	0953	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0955	0.5	14.85	2.70	0.77	4.73	101	419
1000	1.5	14.39	2.56	0.23	5.08	80	90.0
1007	~2.0	14.27	2.49	0.10	5.24	70	75.1
1012	2.5	13.94	2.16	0.02	5.19	70	51.4

Sampling Data:

Time	1017	Sample ID	MW-6-071322
Vol. Purged (gal)	3.0	Duplicates	DUP01-071322 @ 0800
Temperature (°C)	13.87	QA/QC Volumes	
Conductivity (mS/cm)	1.87		
D.O. (mg/L)	0.01		
pH	5.15		
ORP (mV)	Ti		
Turbidity (NTU)	36.6		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Rusty brown water initially
No odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/13/22	Site Location	Former SBU
Samplers	CW JN	Well ID	R2-IW1-17'
Casing Material	PVC	Constructed Depth	70'
Casing Diameter	4"	Condition of Well	

Field Measurements:

Time	1157	Depth Measured From:	
Depth to Water	1109		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information: Waterra

Pump:		Dedicated	Y	Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	1158	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
~~1158~~ 1202	0	15.81	1.18	0.65	*Recal pH (was 10.0)		
1211	0	15.95	1.25	2.16	5.72	111	30.6
1216	1.0	15.12	1.19	0.0	5.46	76	15.8
1222	2.0	15.17	1.19	0.0	6.08	67	15.3
1229	3.0	15.19	1.18	0.0	6.21	57	14.4

Sampling Data:

Time	1234	Sample ID	R2-IW1-17-071322
Vol. Purged (gal)	4.0	Duplicates	
Temperature (°C)	15.12	QA/QC Volumes	
Conductivity (mS/cm)	1.18		
D.O. (mg/L)	0.00		
pH	6.28		
ORP (mV)	51		
Turbidity (NTU)	14.1		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1 H_2SO_4	X	Other		

Sampling Notes:

17' Sample

Effervescent

Reducing odor, clear

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/13/22	Site Location	Fort Ord - SBW
Samplers	CW JN	Well ID	RZ-IW1-45'
Casing Material	PVC	Constructed Depth	70'
Casing Diameter	4"	Condition of Well	ok

Field Measurements:

Time	1157	Depth Measured From:	
Depth to Water	11.09		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N size of well	Other

Purging Information: Waterra

Pump:		Dedicated	+	Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	1248	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1250	0	15.12	1.25	0.00	6.29	45	18.0
1256	1	15.04	1.24	0.00	6.38	44	16.7
1302	2.5	14.98	1.24	0.00	6.41	42	48.7
1307	3.5	14.99	1.25	0.00	6.42	~~55~~ 41	55.2

Sampling Data:

Time	1307	Sample ID	RZ-IW1-45-071322
Vol. Purged (gal)		Duplicates	
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1 H_2SO_4	X	Other		

Sampling Notes:

45' Sample

Reducing odor

Effervescing

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL	Well ID	MW4
Casing Material	PVC	Constructed Depth	40 ft
Casing Diameter	2"	Condition of Well	good

Field Measurements:

		Depth Measured From:	
Time	0825		Top of access port
Depth to Water	9.45	✓	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	✓	Dedicated		Non-dedicated		✓	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0849	0	16.5	0.871	7.1	6.61	-72.5	—
0855	0.75	16.5	0.831	3.0	6.25	-69.0	—
0901	1.5	16.6	0.810	0.3	6.32	-78.6	—
0909	2.5	16.6	0.807	0.3	6.15	-66.9	—

Sampling Data:

Time	0915	Sample ID	MW-4-071822
Vol. Purged (gal)	3.0	Duplicates	
Temperature (°C)	16.6	QA/QC Volumes	
Conductivity (mS/cm)	0.810		
D.O. (mg/L)	0.25		
pH	6.32		
ORP (mV)	-78.3		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
H2S odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

MW-3 4-14

Well Sampling Data Sheet

Date	7/18/22	Site Location	FOX AVE SBW
Samplers	JW	Well ID	R2-IW2-17'
Casing Material	PVC	Constructed Depth	70'
Casing Diameter	4"	Condition of Well	

Field Measurements:

Time	0848	Depth Measured From:	
Depth to Water	10.57		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	0850	Purge End Time	0922				
Approximate Volume Purged	3.0						

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0851	0	15.15	1.35	5.54	6.13	150	125
0905	1.0	14.94	1.29	1.98	4.52	118	109
0910	2.0	14.90	1.26	1.61	5.13	138	106
0915	3.0	14.89	1.25	1.10	5.17	162	106

Sampling Data:

Time	0920	Sample ID	R2-IW2-17-071822
Vol. Purged (gal)	3.0	Duplicates	
Temperature (°C)	14.88	QA/QC Volumes	
Conductivity (mS/cm)	1.25		
D.O. (mg/L)	1.09		
pH	5.18		
ORP (mV)	169		
Turbidity (NTU)	99.6		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

water

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

17' Sample
well pressurized
Effervescing
Reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL & JK	Well ID	MW-3
Casing Material	PVC	Constructed Depth	14ft
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	0917	Depth Measured From:	
Depth to Water	9.66		Top of access port
		x	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated		Non-dedicated		x	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0920	0	15.9	0.201	0.52	6.15	-43.4	-
0926	0.75	15.7	0.197	0.33	5.78	10.1	-
0931	1.50	15.7	0.197	0.28	5.75	17.7	-
0935	2.00	15.7	0.197	0.26	5.76	23.1	-

Sampling Data:

Time	0945	Sample ID	MW-3-071822
Vol. Purged (gal)	2.5	Duplicates	
Temperature (°C)	15.7	QA/QC Volumes	
Conductivity (mS/cm)	0.198		
D.O. (mg/L)	0.27		
pH	5.86		
ORP (mV)	25.6		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	x	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	x	VOCs 8260	SVOCs by 8270C		Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1		Other	

Sampling Notes:
Clear, purple color

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	Former
Samplers	JN RL	Well ID	RZ-IW2-45
Casing Material	PVC	Constructed Depth	70'
Casing Diameter	4"	Condition of Well	Ok

Field Measurements:

Time	0848	Depth Measured From:	
Depth to Water	10.57		Top of access port
			Mark on PVC casing
			Mark of protective casing
		Nside of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	0926	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0927	0	15.12	1.28	0.39	5.58	160	68.5
0932	1.0	15.11	1.29	0.26	5.73	159	67.0
0937	2.0	15.14	1.28	0.11	5.75	141	65.7
0942	3.0	15.16	1.28	0.03	5.96	121	66.3

Sampling Data:

Time	0947	Sample ID	RZ-IW2-45-071822
Vol. Purged (gal)	4.0	Duplicates	
Temperature (°C)	15.17	QA/QC Volumes	
Conductivity (mS/cm)	1.28		
D.O. (mg/L)	0.02		
pH	5.99		
ORP (mV)	89		
Turbidity (NTU)	71.9		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

45' Sample
Effervescing
Reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	Former SBW
Samplers	JN	Well ID	R2-IW9 12'
Casing Material	PVC	Constructed Depth	65'
Casing Diameter	4"	Condition of Well	Ok

Field Measurements:

Time	1010	Depth Measured From:	
Depth to Water	9.55		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time		1011	Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1017	0	15.79	0.385	3.83	5.84	40	432
1016	0.5	15.31	0.312	3.75	5.88	-13	318
1022	1.0	15.18	0.312	0.35	5.91	-31	193
1027	1.5	15.24	0.316	0.59	6.04	-45	143
1032	2.0	15.27	0.323	0.57	6.25	-62	109

Sampling Data:

Time	1037	Sample ID	R2-IW9-12-071822
Vol. Purged (gal)	2.5	Duplicates	
Temperature (°C)	15.28	QA/QC Volumes	
Conductivity (mS/cm)	0.327		
D.O. (mg/L)	0.48		
pH	6.29		
ORP (mV)	-74		
Turbidity (NTU)	83.0		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Slight reducing odor
clear w/ small brown floaties
Not effervescing

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7 / 18 / 2022	Site Location	
Samplers		Well ID	B-33A
Casing Material	Steel	Constructed Depth	
Casing Diameter	2"	Condition of Well	Fair

Field Measurements:

Time	1010	Depth Measured From:	
Depth to Water	7.09		Top of access port
		✓	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	✓	Dedicated		Non-dedicated		✓	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1041	0	14.8	2.971	0.21	6.02	-26.1	—
1054	1.25	14.8	3.031	0.13	6.18	-53.8	—
1103	2.50	14.9	3.061	0.11	6.21	-59.1	—
1110	3.25	14.9	3.088	0.11	6.23	-62.1	—

Sampling Data:

Time	1115	Sample ID	B-33A-071822
Vol. Purged (gal)	3.75	Duplicates	
Temperature (°C)	14.9	QA/QC Volumes	
Conductivity (mS/cm)	3.097		
D.O. (mg/L)	0.09		
pH	6.23		
ORP (mV)	-63.9		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C		Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1		Other	

Sampling Notes:

Salty odor, light tide, clear

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	Fox Ave
Samplers	JN	Well ID	RZ-IW6 -45'
Casing Material	PVC	Constructed Depth	70'
Casing Diameter	4"	Condition of Well	ok

Field Measurements:

Time	1103	Depth Measured From:	
Depth to Water	9.60		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time		1103	Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1104	0	14.73	0.878	1.01	7.36	-125	231
1109	0.5	14.51	0.925	0.00	7.61	-161	122
1114	1.5	14.63	0.924	0.00	7.67	-166	176
1119	2.5	14.56	0.932	0.13	7.70	-171	218
1124	3.5	14.44	0.933	0.16	7.70	-173	251

Sampling Data:

Time	1128	Sample ID	RZ-IW9-45-071822
Vol. Purged (gal)	4.5	Duplicates	
Temperature (°C)	14.45	QA/QC Volumes	
Conductivity (mS/cm)	0.934		
D.O. (mg/L)	0.15		
pH	7.73		
ORP (mV)	-176		
Turbidity (NTU)	270		

Watera

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Reducing odor
Effervescing
cloudy w/ small black sediment

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	B-64
Casing Material	Steel	Constructed Depth	
Casing Diameter	2"	Condition of Well	

Field Measurements:

Time	1125	Depth Measured From:	
Depth to Water	7.91 ft		Top of access port
			Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1133	~~0.75~~	14.4	0.335	0.28	6.68	-89.2	—
1139	0.75	14.0	0.325	0.07	6.19	-75.8	—
1147	1.5	14.0	0.333	0.08	6.26	-83.3	—
1154	2.25	14.1	0.340	0.09	6.31	-85.6	—
1200	2.75	14.0	0.351	0.09	6.34	-87.1	—

Sampling Data:

Time	1205	Sample ID	B-64-071822
Vol. Purged (gal)	3.00	Duplicates	
Temperature (°C)	14.0	QA/QC Volumes	
Conductivity (mS/cm)	0.350		
D.O. (mg/L)	0.08		
pH	6.35		
ORP (mV)	-87.1		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C		Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1		Other	

Sampling Notes:
Clear, mild odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	Fox Ave
Samplers	JN	Well ID	B-35
Casing Material	SS	Constructed Depth	
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1155	Depth Measured From:	
Depth to Water	8.60		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	1158	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1158	0	13.67	0.346	1.06	8.49	-229	>999
1203	1.0	13.95	0.286	2.75	8.48	-225	271
1208	2.0	14.26	0.282	1.82	8.44	-227	159
1213	3.0	14.27	0.281	1.43	8.53	-228	116
1218	4.0	14.22	0.277	1.26	8.62	-230	91.9

Sampling Data:

Time	1220	Sample ID	B-35-071822
Vol. Purged (gal)	4.5	Duplicates	
Temperature (°C)	14.20	QA/QC Volumes	
Conductivity (mS/cm)	0.275		
D.O. (mg/L)	1.28		
pH	8.65		
ORP (mV)	-231		
Turbidity (NTU)	81.2		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	x	Teflon Bailer	

watera

Analyses to be Performed:

Volatile Organics	x	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
lots of sediment initially then cleared up
Reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL JV	Well ID	B-58
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	Good

Field Measurements:

Time	1326	Depth Measured From:	
Depth to Water	9.60 ft		Top of access port
		✓	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated	✓	Non-dedicated		✓	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1320	0	14.9	0.370	0.57	6.07	-31.2	—
1327	0.75	13.6	0.347	0.07	5.91	-12.5	—
1334	2.00	13.6	0.345	0.09	5.80	-9.9	—
1339	3.00	13.6	0.346	0.12	5.83	-10.8	—

Sampling Data:

Time	1342	Sample ID	B-58-071822
Vol. Purged (gal)	3.5	Duplicates	
Temperature (°C)	13.6	QA/QC Volumes	
Conductivity (mS/cm)	0.346		
D.O. (mg/L)	0.12		
pH	5.83		
ORP (mV)	-10.7		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Clear, mild odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	Fox Ave
Samplers	JN	Well ID	B-19
Casing Material	PVC	Constructed Depth	47.5
Casing Diameter	2"	Condition of Well	ok

Field Measurements:

Time	1338	Depth Measured From:	
Depth to Water	9.60		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time		1338	Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1339	0	15.74	0.596	1.53	7.58	-216	59.6
1344	1.0	15.48	0.534	1.64	7.62	-217	24.5
1349	2.0	15.26	0.525	1.60	7.68	-219	16.8
1354	3.0	15.19	0.554	1.37	7.68	-219	13.0
1359	4.0	15.12	0.554	1.27	7.64	-219	11.2

Sampling Data:

Time	1359	Sample ID	B-19-071822
Vol. Purged (gal)		Duplicates	
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

watera

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Reducing odor
Effervescing
Clear

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	RI-IW 4A
Casing Material	PVC	Constructed Depth	14ft
Casing Diameter	4"	Condition of Well	Good

Field Measurements:

Time	1326	Depth Measured From:	
Depth to Water	8.92		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1359	0	16.8	0.852	0.16	6.53	-65.3	—
1405	0.75	16.6	0.923	0.1	6.49	-86.4	—
1410	1.50	16.6	0.900	0.08	6.42	-88.1	—
1417	2.5	16.7	0.880	0.09	6.35	-81.5	—
1422	3.0	16.7	0.862	0.10	6.40	-83.0	

Sampling Data:

Time	1428	Sample ID	RI-IW4A-071822
Vol. Purged (gal)	3.76	Duplicates	
Temperature (°C)	16.7	QA/QC Volumes	
Conductivity (mS/cm)	0.835		
D.O. (mg/L)	0.10		
pH	6.40		
ORP (mV)	-82.3		
Turbidity (NTU)	~		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1	X	Other	

Sampling Notes:

Light reducing odor, Some Sediment

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7 / 18 / 22	Site Location	Fox Ave
Samplers	JN	Well ID	B-20a
Casing Material	PVC	Constructed Depth	16'
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1417	Depth Measured From:	
Depth to Water	9.10		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time		1479	Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1420	0	17.05	0.657	2.17	6.71	-224	26.1
1425	0.5	15.60	0.622	0.70	6.63	-222	11.6
1430	1.0	15.46	0.615	0.50	6.62	-224	10.4
1435	1.5	15.52	0.613	0.44	6.63	-227	8.8
1440	2.0	15.51	0.614	0.34	6.64	-232	7.1
1445	2.5	15.51	0.615	0.31	6.65	-233	6.4

Sampling Data:

Time	1445	Sample ID	B-20a-071822
Vol. Purged (gal)		Duplicates	
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics		VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Clear
Slight reducing odor & effervescent

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox
Samplers	RL JK	Well ID	NW1-1-S
Casing Material	PVC	Constructed Depth	148
Casing Diameter	2"	Condition of Well	good

Field Measurements:

		Depth Measured From:	
Time	1445		Top of access port
Depth to Water	9.36	X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated	X	Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1447	0	16.0	0.680	0.13	6.34	-76.8	–
1454	0.75	15.5	0.660	0.09	6.12	-88.4	–
1502	1.50	15.5	0.652	0.11	6.18	-93.4	–
1507	2.25	15.15	0.649	0.09	6.18	-94.1	–
1512	2.75	15.5	0.65	0.09	6.21	-95.3	–

Sampling Data:

Time	1515	Sample ID	NW1-1-071822
Vol. Purged (gal)	3.25	Duplicates	
Temperature (°C)	15.5	QA/QC Volumes	
Conductivity (mS/cm)	0.646		
D.O. (mg/L)	0.09		
pH	6.21		
ORP (mV)	-94.6		
Turbidity (NTU)	–		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Clear, very mild odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/22	Site Location	FUSAM
Samplers	JN	Well ID	B-22
Casing Material	SS	Constructed Depth	11'
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1507	Depth Measured From:	
Depth to Water	9.01		Top of access port
			Mark on PVC casing
			Mark of protective casing
		Nside of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1511	0	17.83	0.757	2.61	6.48	-208	66.3
1516	0.5	16.61	0.785	2.18	6.46	-204	12.1
1521	1.0	16.39	0.825	2.20	6.51	-206	6.4
1526	1.5	16.39	0826	1.76	6.50	-207	2.9

Sampling Data:

Time	1531	Sample ID	B-22-071822
Vol. Purged (gal)	2.0	Duplicates	DUP01-071822 @ 1500
Temperature (°C)	16.39	QA/QC Volumes	
Conductivity (mS/cm)	0.821		
D.O. (mg/L)	1.66		
pH	6.49		
ORP (mV)	-208		
Turbidity (NTU)	2.8		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/18/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	RI-IW9
Casing Material	PVC	Constructed Depth	14 FT
Casing Diameter	4"	Condition of Well	Good

Field Measurements:

Time	1620	Depth Measured From:	
Depth to Water	10.06		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated	X	Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1524	0	17.4	0.915	0.41	5.06	44.6	-
1530	1.00	17	0.578	0.43	4.95	43.0	-
1537	2.00	16.4	0.688	0.25	4.78	41.1	-
1544	3.00	15.8	0.726	0.14	4.77	32.5	-
1551	4.00	15.4	0.748	0.11	4.81	23.2	-
1558	4.75	15.1	0.751	0.09	4.83	17.2	-

Sampling Data:

Time	1600	Sample ID	RI-IW9-071822
Vol. Purged (gal)	5.0	Duplicates	
Temperature (°C)	15.1	QA/QC Volumes	
Conductivity (mS/cm)	0.762		
D.O. (mg/L)	0.09		
pH	4.84		
ORP (mV)	15.3		
Turbidity (NTU)	-		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1	X	Other		

Sampling Notes:

reducing odor, Cloudy

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19 / 22	Site Location	Fort Ave
Samplers	JN	Well ID	RO-IW 3D
Casing Material	PVC	Constructed Depth	65'
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	0720	Depth Measured From:	
Depth to Water	12.83		Top of access port
			Mark on PVC casing
			Mark of protective casing
		Inside of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0722	0	13.97	3.57	0.19	5.17	86	287
0729	0.5	13.82	3.59	0.00	4.26	76	306
0739	2.0	13.80	3.57	0.00	4.39	63	238
0744	2.5	13.83	3.54	0.00	4.42	60	254
0749	3.0	13.84	3.51	0.00	4.47	57	215

Sampling Data:

Time	0754	Sample ID	RO-IW3D-071922
Vol. Purged (gal)	3.5	Duplicates	
Temperature (°C)	13.83	QA/QC Volumes	
Conductivity (mS/cm)	348		
D.O. (mg/L)	0.00		
pH	4.53		
ORP (mV)	53		
Turbidity (NTU)	224		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1 H_2SO_4	X	Other		

Sampling Notes:
well pressurized
Effervescent
Strong reducing odor
small yellow diesel fpatics

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/2022	Site Location	Fox
Samplers	RL JN	Well ID	RD-IW2D
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	Good

Field Measurements:

Time	0722	Depth Measured From:	
Depth to Water	13.49		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated X		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
724	0	16.8	2.413	2.29	5.16	0.3	—
729	0.5	16.1	2.436	0.57	5.11	-27.2	—
739	1.0	15.9	2.454	0.24	5.09	-39.6	—
747	1.5	15.8	2.433	0.19	5.11	-43.7	—
756	2.0	15.7	2.459	0.16	5.08	-44.9	—
813	2.5	15.7	2.562	0.13	5.01	-44.8	—
825	3.0	15.4	2.564	0.15	4.99	-45.2	—
840	3.5	15.3	2.567	0.11	4.97	-46.2	—

Sampling Data:

Time	0940	Sample ID	RD-IW2D
Vol. Purged (gal)	3.75	Duplicates	
Temperature (°C)	15.3	QA/QC Volumes	
Conductivity (mS/cm)	2.563		
D.O. (mg/L)	0.13		
pH	4.97		
ORP (mV)	-46.4		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Strong reducing odor, grey colour effervescent

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/22	Site Location	Fox Ave
Samplers	JN	Well ID	RO-IW7D
Casing Material	PVC	Constructed Depth	65'
Casing Diameter	2"	Condition of Well	Ok

Field Measurements:

Time	0815	Depth Measured From:	
Depth to Water	34.19		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time	0826	Purge End Time					
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0827	0	14.45	2.51	0.16	4.47	40	701
0837	2.0	14.32	2.14	0.00	4.67	38	642
0843	3.0	14.45	1.79	0.00	4.87	21	561
0848	3.5	14.32	1.59	0.00	4.91	15	441
0858	4.5	14.25	1.33	0.00	5.01	19	240

Sampling Data:

Time	0903	Sample ID	RO-IW7D-071922
Vol. Purged (gal)	~~14 295.5~~	Duplicates	
Temperature (°C)	14.29	QA/QC Volumes	
Conductivity (mS/cm)	1.25		
D.O. (mg/L)	0.00		
pH	5.20		
ORP (mV)	-3		
Turbidity (NTU)	154		

Sampling Device: waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1 H_2SO_4	X	Other		

Sampling Notes:
Small yellow oil floaties
Effervescent
Reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	MW-185
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	0814	Depth Measured From:	
Depth to Water	13.97		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated X		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
0901	0	16.2	2.507	0.25	5.63	-74.1	-
0908	1.0	14.6	1.745	0.09	6.60	-122.7	-
0917	2.0	14.7	2.072	0.09	6.80	-134.5	-
0920	2.25	15.4	2.108	2.07	6.86	-119.4	-

Sampling Data:

Time	0930	Sample ID	MW-185-071922
Vol. Purged (gal)	2.50	Duplicates	
Temperature (°C)	14.9	QA/QC Volumes	
Conductivity (mS/cm)	2.033		
D.O. (mg/L)	0.81		
pH	6.83		
ORP (mV)	-94.1		
Turbidity (NTU)	-		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

* Pumped dry
reducing odor
slightly effervescent

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	MW-7-
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	0956	Depth Measured From:	
Depth to Water	10.60		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated X		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1000	0	15.9	1.324	0.22	6.24	-49.5	-
1008	1.0	14.7	1.024	0.13	6.14	-52.5	-
1015	2.0	14.7	1.019	0.15	6.19	-62.9	-
1021	3.0	14.7	1.020	0.14	6.20	-67.3	-

Sampling Data:

Time	1025	Sample ID	MW-7-071922
Vol. Purged (gal)	3.75	Duplicates	
Temperature (°C)	14.7	QA/QC Volumes	
Conductivity (mS/cm)	1.015		
D.O. (mg/L)	0.11		
pH	6.21		
ORP (mV)	-70.0		
Turbidity (NTU)			

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Clear, mild reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/22	Site Location	Fox Ave
Samplers	JN	Well ID	RI-IW12
Casing Material	PVC	Constructed Depth	15'
Casing Diameter	4"	Condition of Well	ok

Field Measurements:

Time	1008	Depth Measured From:	
Depth to Water	8.61		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1012	0	15.86	0.106	5.00	6.53	-206	64.1
1020	1.0	15.83	0.094	1.91	6.59	-217	43.9
1025	1.5	15.07	0.093	1.35	6.63	-220	36.0
1030	2.0	15.08	0.091	0.80	6.70	-222	29.9

Sampling Data:

Time	1035	Sample ID	RI-IW12-071922
Vol. Purged (gal)	2.5	Duplicates	
Temperature (°C)	15.03	QA/QC Volumes	
Conductivity (mS/cm)	0.087		
D.O. (mg/L)	0.74		
pH	6.78		
ORP (mV)	-226		
Turbidity (NTU)	24.7		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C			Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM			RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1 H_2SO_4	X		Other	

Sampling Notes:
Reducing odor, clear,
Slight effervescence

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7 / 19 / 2022	Site Location	Fox
Samplers	RL JN	Well ID	MW-9
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	Gal

Field Measurements:

Time	1010	Depth Measured From:	
Depth to Water	11.11		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated	X	Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1036	0	14.9	0.888	0.20	6.42	-52.1	—
1042	1.0	14.3	0.860	0.10	6.27	-53.0	—
1048	2.0	14.1	0.866	0.10	6.33	-62.0	—
1054	3.0	14.2	0.870	0.11	6.34	-69.1	—
1057	3.5	14.1	0.868	0.10	6.34	-70.5	—

Sampling Data:

Time	1100	Sample ID	MW-9-071922
Vol. Purged (gal)	4.00	Duplicates	DUP01-071922
Temperature (°C)	14.1	QA/QC Volumes	
Conductivity (mS/cm)	0.871		
D.O. (mg/L)	0.10		
pH	6.34		
ORP (mV)	-71.7		
Turbidity (NTU)			

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1	X	Other		

Sampling Notes:

Clear, mild odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	7/19/22	Site Location	Fox Ave
Samplers	JN	Well ID	B-49
Casing Material	SS	Constructed Depth	
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1105	Depth Measured From:	
Depth to Water	10.25		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:		Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1108	0	15.94	0.907	5.45	7.05	-231	127
1114	0.5	14.24	0.888	1.08	7.00	-238	27.2
1124	1.5	13.74	0.890	0.00	6.88	-237	11.2
1129	2.0	13.75	0.877	0.00	6.84	-235	9.4

Sampling Data:

Time	1134	Sample ID	B-49-071922
Vol. Purged (gal)	2.5	Duplicates	
Temperature (°C)	13 78	QA/QC Volumes	
Conductivity (mS/cm)	0.870		
D.O. (mg/L)	0.00		
pH	6.83		
ORP (mV)	-235		
Turbidity (NTU)	7.7		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump		Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
slight reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	4/14/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	MW-10
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	Good

Field Measurements:

Time	1012	Depth Measured From:	
Depth to Water	11.19		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated	X	Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
11.02	0	15.2	1.303	1.46	6.65	-76.0	—
11.14	1.0	15.2	1.380	0.12	6.61	-70.1	—
1121	2.0	15.2	1.397	0.10	6.64	-68.4	—
1129	3.25	15.2	1.402	0.10	6.67	-64.8	—
1134	3.75	15.2	1.407	0.09	6.68	-62.8	—
1137	4.00	15.3	1.408	0.10	6.72	-61.5	—

Sampling Data:

Time	1140	Sample ID	MW-10-041422
Vol. Purged (gal)	4.25	Duplicates	
Temperature (°C)	15.3	QA/QC Volumes	
Conductivity (mS/cm)	1.408		
D.O. (mg/L)	0.09		
pH	6.71		
ORP (mV)	-61.2		
Turbidity (NTU)	—		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Clear, reducing odor
~~Grease in water~~

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8 / 22 / 2022	Site Location	Fort Ave
Samplers	RL & JV	Well ID	B-18
Casing Material	Metal	Constructed Depth	
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	1327	Depth Measured From:	
Depth to Water	9.78		Top of access port
		✓	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	✓	Dedicated		Non-dedicated	✓	Peristaltic
Bailer:		PVC		Stainless Steel		Other:
Purge Start Time			Purge End Time			
Approximate Volume Purged						

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1337	-	22.01	0.704	1.76	6.23	-6	165
1342	1	20.63	0.727	0.22	6.58	-87	70.5
1357	2	19.32	0.738	0.00	6.71	-101	43.1
1401	2.5	18.92	0.747	0.00	6.70	-106	33.9
1405	3.0	18.80	0.751	0.00	6.76	-111	21.3
1410	3.5	18.78	0.752	0.00	6.73	-111	17.9

Sampling Data:

Time	1415	Sample ID	B-18-082222
Vol. Purged (gal)	3.75	Duplicates	
Temperature (°C)	18.75	QA/QC Volumes	
Conductivity (mS/cm)	0.752		
D.O. (mg/L)	0.00		
pH	6.73		
ORP (mV)	-110		
Turbidity (NTU)	17.7		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

No odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/22	Site Location	FUL AVE NWC
Samplers	JW	Well ID	B-54
Casing Material	PVC	Constructed Depth	14'
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1015	Depth Measured From:	
Depth to Water	10.50		Top of access port
			Mark on PVC casing
			Mark of protective casing
		Nalgene flask	Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1024	0	18.06	0.515	3.03	5.92	129	108
1029	0.5	16.02	0.502	1.98	5.94	121	56.4
1035	1.0	15.15	0.485	1.46	6.00	118	14.1
1040	1.5	14.97	0.482	1.16	5.98	119	7.1
1045	2.0	14.78	0.481	0.93	5.97	120	4.8
1050	2.5	14.71	0.484	0.90	5.93	122	2.4

Sampling Data:

Time	1050	Sample ID	B-54-082222
Vol. Purged (gal)		Duplicates	DUP01-082222 @0830
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

13' sample
clear, no odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/2022	Site Location	Fox Ave
Samplers	RL & YN	Well ID	B-60
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time		Depth Measured From:	
Depth to Water	9.58		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:		Dedicated		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1204	—	22.60	0.279	6.31	6.60	3	9.5
1210	1.0	17.66	0.305	0.09	6.47	-17	0.0
1216	2.0	16.78	0.327	0.00	6.24	-20	0.00
1226	3.5	16.60	0.344	0.00	6.26	-29	1.9

Sampling Data:

Time	1230	Sample ID	B-60-082222
Vol. Purged (gal)	4.0	Duplicates	
Temperature (°C)	16.52	QA/QC Volumes	
Conductivity (mS/cm)	0.350		
D.O. (mg/L)	0.00		
pH	6.08		
ORP (mV)	-26		
Turbidity (NTU)	4.5		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:
Mild odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/22	Site Location	Fort Ord
Samplers	J.C	Well ID	B-61
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1209	Depth Measured From:	
Depth to Water	9.81		Top of access port
			Mark on PVC casing
			Mark of protective casing
		NSW Surface	Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1213	0	17.21	0.908	3.61	6.65	-123	154
1218	0.5	16.85	0.922	3.04	6.66	-120	3.5
1223	1.0	16.55	0.951	3.55	6.64	-121	5.7
1228	1.5	16.68	0.966	3.19	6.64	-122	7.9
1233	2.0	16.68	0.977	2.90	6.63	-120	2.5
1238	2.5	16.72	0.984	2.60	6.61	-123	2.8

Sampling Data:

Time	1238	Sample ID	B-61-082222
Vol. Purged (gal)		Duplicates	
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

Sampling Device: watera

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Effervescing; clear, reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/2022	Site Location	Fox Ave
Samplers	RL JN	Well ID	B-62
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	Good

Field Measurements:

Time	1300	Depth Measured From:	
Depth to Water	9.69		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1500	-	18.54	0.115	2.94	6.36	-71	11.4
n/a	1.0	17.52	0.097	2.77	6.27	54	0.4
1521	2.0	17.83	0.086	2.60	6.29	66	0.0
1539	3.0	18.15	0.096	2.52	6.28	84	0.0

Sampling Data:

Time	1545	Sample ID	B-62-082222
Vol. Purged (gal)	3.5	Duplicates	
Temperature (°C)	18.23	QA/QC Volumes	
Conductivity (mS/cm)	0.086		
D.O. (mg/L)	2.48		
pH	6.27		
ORP (mV)	87		
Turbidity (NTU)	0.0		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/2022	Site Location	Fox Ave
Samplers	RL & JN	Well ID	B-63
Casing Material	PVC	Constructed Depth	
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	1320	Depth Measured From:	
Depth to Water	9.72		Top of access port
		X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		X	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1424	—	16.73	0.761	0.92	6.55	-43	56.8
1432	1.0	15.60	0.753	0.00	6.62	-83	23.8
1438	2.0	15.64	0.771	0.00	6.59	-85	31.1
1444	3.0	15.61	0.766	0.00	6.56	-91	15.4
1450	3.5	15.62	0.773	0.00	6.56	-94	4.5

Sampling Data:

Time	1454	Sample ID	B-63-082222
Vol. Purged (gal)	3.75	Duplicates	
Temperature (°C)	15.71	QA/QC Volumes	
Conductivity (mS/cm)	0.774		
D.O. (mg/L)	0.00		
pH	6.55		
ORP (mV)	-94		
Turbidity (NTU)	1.5		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Mild Odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/2022	Site Location	Fox Ave
Samplers	RC & JN	Well ID	B-66
Casing Material	PVC	Constructed Depth	16 F
Casing Diameter	2"	Condition of Well	Good

Field Measurements:

		Depth Measured From:	
Time	1000		Top of access port
Depth to Water	13.61	X	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	✓	Dedicated		Non-dedicated		✓	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1018	–	14.05	0.435	8.40	8.65	169	–
1024	1.0	15.66	0.452	0.97	7.16	153	7.4
1029	2	15.67	0.460	0.32	6.85	149	221

Sampling Data:

Time	1038	Sample ID	B-66-082222
Vol. Purged (gal)	2.25	Duplicates	
Temperature (°C)	17.21	QA/QC Volumes	
Conductivity (mS/cm)	0.460		
D.O. (mg/L)	0.11		
pH	6.55		
ORP (mV)	172		
Turbidity (NTU)	102		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260		SVOCs by 8270C		Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants		SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)	
Dissolved Metals				Total Organic Carbon 415.1		Other	

Sampling Notes:
Pumped dry at 2 gallon
- mild odor → not reducing

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or: (total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/22	Site Location	Fortuna - SBW
Samplers	JN	Well ID	MW-5
Casing Material	PVC	Constructed Depth	15'
Casing Diameter	2"	Condition of Well	OK

Field Measurements:

Time	1543	Depth Measured From:	
Depth to Water	9.72		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N Side of Case	Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1543	0	19.71	14.2	5.21	6.38	-15	477
1548	0.5	18.45	14.7	5.13	6.29	6	118
1553	1.0	17.91	15.1	5.36	6.29	14	46.7
1558	1.5	18.08	15.1	5.07	6.31	19	28.2
1603	2.0	18.13	15.1	4.90	6.35	26	15.7
1608	2.5	18.12	15.2	4.97	6.35	27	15.5

Sampling Data:

Time	1608	Sample ID	MW-5-082222
Vol. Purged (gal)		Duplicates	
Temperature (°C)		QA/QC Volumes	
Conductivity (mS/cm)			
D.O. (mg/L)			
pH			
ORP (mV)			
Turbidity (NTU)			

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

13' Sample

No odor, clear

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/2022	Site Location	Fox Lake
Samplers	RC & JK	Well ID	MW-16D
Casing Material	PVC	Constructed Depth	16
Casing Diameter	2"	Condition of Well	good

Field Measurements:

Time	1055	Depth Measured From:	
Depth to Water	14.26		Top of access port
		✓	Mark on PVC casing
			Mark of protective casing
			Other

Purging Information:

Pump:	✓	Dedicated		Non-dedicated		✓	Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1112	—	16.12	0.962	2.04	6.39	54	48.1
1118	1.25	15.36	1.21	0.00	6.56	-64	21.0
1122	2.25	15.37	1.21	0.00	6.64	-77	19.3
1130	3.50	15.39	1.18	0.00	6.62	-92	13.4
1135	4.25	15.41	1.18	0.00	6.59	-98	14.5

Sampling Data:

Time	1138	Sample ID	MW-16D-082222
Vol. Purged (gal)	4.75	Duplicates	
Temperature (°C)	15.52	QA/QC Volumes	
Conductivity (mS/cm)	1.18		
D.O. (mg/L)	0.00		
pH	6.61		
ORP (mV)	-102		
Turbidity (NTU)	11.0		

Sampling Device:

PVC Bailer		SS Bailer		Dedicated Pump	✓	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	✓	VOCs 8260	SVOCs by 8270C			Sulfate 375.2	
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM			RSK-175 (methane, ethane, ethene)	
Dissolved Metals			Total Organic Carbon 415.1			Other	

Sampling Notes:

Pumped almost dry 4.5 gallon

Effervescent

reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or: (total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/22	Site Location	Forum
Samplers	JW	Well ID	R1-IW3a
Casing Material	PVC	Constructed Depth	12'
Casing Diameter	4"	Condition of Well	Ok

Field Measurements:

Time	1119	Depth Measured From:	
Depth to Water	9.19		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of casing	Other

Purging Information:

Pump:	Y	Dedicated		Non-dedicated		Peristaltic	
Bailer:		PVC		Stainless Steel		Other:	
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1125	0	18.06	0.721	2.42	5.53	-51	570
1130	0.5	17.57	0.694	1.38	5.87	-80	345
1135	1.0	17.76	0.683	0.95	5.75	-94	239
1140	1.5	17.82	0.679	0.59	5.70	-106	193
1145	2.0	18.00	0.677	0.35	5.73	-116	176
1150	2.5	18.09	0.678	0.24	5.77	-122	156

Sampling Data:

Time	1155	Sample ID	R1-IW3a-082222
Vol. Purged (gal)	3.0	Duplicates	
Temperature (°C)	18.11	QA/QC Volumes	
Conductivity (mS/cm)	0.678		
D.O. (mg/L)	0.21		
pH	5.78		
ORP (mV)	-124		
Turbidity (NTU)	148		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

Strong sulfur odor, cloudy w/ slight effervescence

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Well Sampling Data Sheet

Date	8/22/22	Site Location	FORMER SBW
Samplers	JN	Well ID	R2-IW10-37'
Casing Material	PVC	Constructed Depth	
Casing Diameter	4"	Condition of Well	ok

Field Measurements:

Time	1450	Depth Measured From:	
Depth to Water	10.24		Top of access port
			Mark on PVC casing
			Mark of protective casing
		N side of case	Other

Purging Information:

Pump:	X	Dedicated		Non-dedicated			Peristaltic
Bailer:		PVC		Stainless Steel			Other:
Purge Start Time			Purge End Time				
Approximate Volume Purged							

Water Monitoring Conditions:

Time	Vol. Purged (gal)	Temperature (°C)	Conductivity (mS/cm)	D.O. (mg/L)	pH	ORP (mV)	Turbidity (NTU)
1455	0	19.20	1.21	3.53	6.79	-107	11.6
1500	0.5	18.63	1.20	3.27	6.64	-104	9.2
1505	1.0	16.32	1.27	2.26	6.54	-106	7.4
1510	1.5	15.56	1.25	0.60	6.53	-110	9.1
1515	2.0	15.56	1.24	0.51	6.53	-112	9.7

Sampling Data:

Time	1520	Sample ID	R2-IW10-37-082222
Vol. Purged (gal)	2.5	Duplicates	
Temperature (°C)	15.61	QA/QC Volumes	
Conductivity (mS/cm)	1.24		
D.O. (mg/L)	0.46		
pH	6.52		
ORP (mV)	-113		
Turbidity (NTU)	10.0		

Sampling Device: Waterra

PVC Bailer		SS Bailer		Dedicated Pump	X	Teflon Bailer	

Analyses to be Performed:

Volatile Organics	X	VOCs 8260	SVOCs by 8270C		Sulfate 375.2		
Total Metals		RCRA 8 or Priority Pollutants	SVOCs by 8270C/SIM		RSK-175 (methane, ethane, ethene)		
Dissolved Metals			Total Organic Carbon 415.1		Other		

Sampling Notes:

37' sample
Effervescing, clear, reducing odor

Well Diameter	Well Volume (Gal/ft)
1 inch	0.041
2 inch	0.163
4 inch	0.653
6 inch	1.469

Or:(total depth(ft) - DTW(ft)) x Well Dia^2 x 0.0408 = 1 Well Volume

Appendix B

Laboratory Data Package

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Calibre Systems
Tom McKeon
16935 SE 39th St.
Bellevue, WA 98008

RE: Fox Avenue Site
Work Order Number: 2207181

July 21, 2022

Attention Tom McKeon:

Fremont Analytical, Inc. received 8 sample(s) on 7/13/2022 for the analyses presented in the following report.

Total Organic Carbon by SM 5310C
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Justin Neste

Date: *07/21/2022*

CLIENT: Calibre Systems
Project: Fox Avenue Site
Work Order: 2207181

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2207181-001	MW-6-071322	07/13/2022 10:17 AM	07/13/2022 2:46 PM
2207181-002	Dup-01-071322	07/13/2022 8:00 AM	07/13/2022 2:46 PM
2207181-003	R2-IW1-17-071322	07/13/2022 12:34 PM	07/13/2022 2:46 PM
2207181-004	S-2-071322	07/13/2022 10:55 AM	07/13/2022 2:46 PM
2207181-005	S-3-071322	07/13/2022 11:02 AM	07/13/2022 2:46 PM
2207181-006	S-3B-071322	07/13/2022 11:08 AM	07/13/2022 2:46 PM
2207181-007	R2-IW1-45-071322	07/13/2022 1:07 PM	07/13/2022 2:46 PM
2207181-008	Trip Blank	07/08/2022 5:02 PM	07/13/2022 2:46 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

Case Narrative

WO#: **2207181**
Date: **7/21/2022**

CLIENT: Calibre Systems
Project: Fox Avenue Site

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Project: Fox Avenue Site
Lab ID: 2207181-001
Client Sample ID: **MW-6-071322**

Collection Date: 7/13/2022 10:17:00 AM
Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	0.943	0.200		µg/L	1	7/21/2022 7:00:18 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 7:00:18 AM
Acetone	ND	6.00		µg/L	1	7/21/2022 7:00:18 AM
trans-1,2-Dichloroethene	0.596	0.500		µg/L	1	7/21/2022 7:00:18 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/21/2022 7:00:18 AM
cis-1,2-Dichloroethene	57.6	5.00	D	µg/L	10	7/20/2022 9:27:49 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/21/2022 7:00:18 AM
Benzene	ND	0.440		µg/L	1	7/21/2022 7:00:18 AM
Trichloroethene (TCE)	8.04	0.500		µg/L	1	7/21/2022 7:00:18 AM
Toluene	ND	0.750		µg/L	1	7/21/2022 7:00:18 AM
Tetrachloroethene (PCE)	9.23	0.400		µg/L	1	7/21/2022 7:00:18 AM
Ethylbenzene	ND	0.400		µg/L	1	7/21/2022 7:00:18 AM
m,p-Xylene	ND	1.00		µg/L	1	7/21/2022 7:00:18 AM
o-Xylene	ND	0.500		µg/L	1	7/21/2022 7:00:18 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/21/2022 7:00:18 AM
Naphthalene	ND	1.25		µg/L	1	7/21/2022 7:00:18 AM
Surr: Dibromofluoromethane	111	80 - 120		%Rec	1	7/21/2022 7:00:18 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	7/21/2022 7:00:18 AM
Surr: 1-Bromo-4-fluorobenzene	88.1	80 - 120		%Rec	1	7/21/2022 7:00:18 AM

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Collection Date: 7/13/2022 8:00:00 AM
Project: Fox Avenue Site
Lab ID: 2207181-002
Matrix: Groundwater
Client Sample ID: **Dup-01-071322**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	1.09	0.200		µg/L	1	7/20/2022 10:28:04 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 10:28:04 PM
Acetone	ND	6.00		µg/L	1	7/20/2022 10:28:04 PM
trans-1,2-Dichloroethene	0.791	0.500		µg/L	1	7/20/2022 10:28:04 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/20/2022 10:28:04 PM
cis-1,2-Dichloroethene	62.0	0.500	E	µg/L	1	7/20/2022 10:28:04 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/20/2022 10:28:04 PM
Benzene	ND	0.440		µg/L	1	7/20/2022 10:28:04 PM
Trichloroethene (TCE)	8.15	0.500		µg/L	1	7/20/2022 10:28:04 PM
Toluene	ND	0.750		µg/L	1	7/20/2022 10:28:04 PM
Tetrachloroethene (PCE)	10.1	0.400		µg/L	1	7/20/2022 10:28:04 PM
Ethylbenzene	ND	0.400		µg/L	1	7/20/2022 10:28:04 PM
m,p-Xylene	ND	1.00		µg/L	1	7/20/2022 10:28:04 PM
o-Xylene	ND	0.500		µg/L	1	7/20/2022 10:28:04 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/20/2022 10:28:04 PM
Naphthalene	ND	1.25		µg/L	1	7/20/2022 10:28:04 PM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	7/20/2022 10:28:04 PM
Surr: Toluene-d8	99.9	80 - 120		%Rec	1	7/20/2022 10:28:04 PM
Surr: 1-Bromo-4-fluorobenzene	87.0	80 - 120		%Rec	1	7/20/2022 10:28:04 PM

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Collection Date: 7/13/2022 12:34:00 PM
Project: Fox Avenue Site
Lab ID: 2207181-003
Matrix: Groundwater
Client Sample ID: **R2-IW1-17-071322**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	0.811	0.200		µg/L	1	7/20/2022 7:27:19 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
Acetone	53.4	6.00		µg/L	1	7/20/2022 7:27:19 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
cis-1,2-Dichloroethene	2.61	0.500		µg/L	1	7/20/2022 7:27:19 PM
(MEK) 2-Butanone	282	1.50	E	µg/L	1	7/20/2022 7:27:19 PM
Benzene	0.521	0.440		µg/L	1	7/20/2022 7:27:19 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
Toluene	176	0.750	E	µg/L	1	7/20/2022 7:27:19 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/20/2022 7:27:19 PM
Ethylbenzene	ND	0.400		µg/L	1	7/20/2022 7:27:19 PM
m,p-Xylene	ND	1.00		µg/L	1	7/20/2022 7:27:19 PM
o-Xylene	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/20/2022 7:27:19 PM
Naphthalene	ND	1.25		µg/L	1	7/20/2022 7:27:19 PM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	7/20/2022 7:27:19 PM
Surr: Toluene-d8	99.3	80 - 120		%Rec	1	7/20/2022 7:27:19 PM
Surr: 1-Bromo-4-fluorobenzene	93.0	80 - 120		%Rec	1	7/20/2022 7:27:19 PM
Total Organic Carbon by SM 5310C				Batch ID: R76954		Analyst: SLL
Total Organic Carbon	350	50.0	D	mg/L	100	7/19/2022 9:01:00 PM

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Project: Fox Avenue Site
Lab ID: 2207181-004
Client Sample ID: **S-2-071322**

Collection Date: 7/13/2022 10:55:00 AM
Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/20/2022 10:58:10 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
Acetone	ND	6.00		µg/L	1	7/20/2022 10:58:10 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
cis-1,2-Dichloroethene	0.581	0.500	C	µg/L	1	7/20/2022 10:58:10 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/20/2022 10:58:10 PM
Benzene	ND	0.440		µg/L	1	7/20/2022 10:58:10 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
Toluene	ND	0.750		µg/L	1	7/20/2022 10:58:10 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/20/2022 10:58:10 PM
Ethylbenzene	ND	0.400		µg/L	1	7/20/2022 10:58:10 PM
m,p-Xylene	ND	1.00		µg/L	1	7/20/2022 10:58:10 PM
o-Xylene	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/20/2022 10:58:10 PM
Naphthalene	ND	1.25		µg/L	1	7/20/2022 10:58:10 PM
Surr: Dibromofluoromethane	109	80 - 120		%Rec	1	7/20/2022 10:58:10 PM
Surr: Toluene-d8	100	80 - 120		%Rec	1	7/20/2022 10:58:10 PM
Surr: 1-Bromo-4-fluorobenzene	86.6	80 - 120		%Rec	1	7/20/2022 10:58:10 PM

NOTES:
C- Possible carryover.

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Project: Fox Avenue Site
Lab ID: 2207181-005
Client Sample ID: **S-3-071322**

Collection Date: 7/13/2022 11:02:00 AM
Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/20/2022 8:27:34 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
Acetone	ND	6.00		µg/L	1	7/20/2022 8:27:34 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
cis-1,2-Dichloroethene	2.27	0.500		µg/L	1	7/20/2022 8:27:34 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/20/2022 8:27:34 PM
Benzene	1.35	0.440		µg/L	1	7/20/2022 8:27:34 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
Toluene	0.773	0.750		µg/L	1	7/20/2022 8:27:34 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/20/2022 8:27:34 PM
Ethylbenzene	ND	0.400		µg/L	1	7/20/2022 8:27:34 PM
m,p-Xylene	ND	1.00		µg/L	1	7/20/2022 8:27:34 PM
o-Xylene	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/20/2022 8:27:34 PM
Naphthalene	3.45	1.25		µg/L	1	7/20/2022 8:27:34 PM
Surr: Dibromofluoromethane	109	80 - 120		%Rec	1	7/20/2022 8:27:34 PM
Surr: Toluene-d8	99.9	80 - 120		%Rec	1	7/20/2022 8:27:34 PM
Surr: 1-Bromo-4-fluorobenzene	89.3	80 - 120		%Rec	1	7/20/2022 8:27:34 PM

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Collection Date: 7/13/2022 11:08:00 AM
Project: Fox Avenue Site
Lab ID: 2207181-006
Matrix: Groundwater
Client Sample ID: **S-3B-071322**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/20/2022 8:57:41 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
Acetone	ND	6.00		µg/L	1	7/20/2022 8:57:41 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
cis-1,2-Dichloroethene	0.542	0.500		µg/L	1	7/20/2022 8:57:41 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/20/2022 8:57:41 PM
Benzene	0.592	0.440		µg/L	1	7/20/2022 8:57:41 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
Toluene	ND	0.750		µg/L	1	7/20/2022 8:57:41 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/20/2022 8:57:41 PM
Ethylbenzene	ND	0.400		µg/L	1	7/20/2022 8:57:41 PM
m,p-Xylene	ND	1.00		µg/L	1	7/20/2022 8:57:41 PM
o-Xylene	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/20/2022 8:57:41 PM
Naphthalene	ND	1.25		µg/L	1	7/20/2022 8:57:41 PM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	7/20/2022 8:57:41 PM
Surr: Toluene-d8	98.1	80 - 120		%Rec	1	7/20/2022 8:57:41 PM
Surr: 1-Bromo-4-fluorobenzene	87.4	80 - 120		%Rec	1	7/20/2022 8:57:41 PM

Analytical Report

Work Order: **2207181**
Date Reported: **7/21/2022**

Client: Calibre Systems
Collection Date: 7/13/2022 1:07:00 PM
Project: Fox Avenue Site
Lab ID: 2207181-007
Matrix: Groundwater
Client Sample ID: **R2-IW1-45-071322**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37197		Analyst: TN
Vinyl chloride	0.864	0.200		µg/L	1	7/21/2022 7:30:28 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
Acetone	49.6	6.00		µg/L	1	7/21/2022 7:30:28 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
cis-1,2-Dichloroethene	2.65	0.500		µg/L	1	7/21/2022 7:30:28 AM
(MEK) 2-Butanone	219	15.0	D	µg/L	10	7/20/2022 9:57:58 PM
Benzene	0.562	0.440		µg/L	1	7/21/2022 7:30:28 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
Toluene	167	7.50	D	µg/L	10	7/20/2022 9:57:58 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/21/2022 7:30:28 AM
Ethylbenzene	ND	0.400		µg/L	1	7/21/2022 7:30:28 AM
m,p-Xylene	ND	1.00		µg/L	1	7/21/2022 7:30:28 AM
o-Xylene	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/21/2022 7:30:28 AM
Naphthalene	ND	1.25		µg/L	1	7/21/2022 7:30:28 AM
Surr: Dibromofluoromethane	107	80 - 120		%Rec	1	7/21/2022 7:30:28 AM
Surr: Toluene-d8	97.5	80 - 120		%Rec	1	7/21/2022 7:30:28 AM
Surr: 1-Bromo-4-fluorobenzene	90.3	80 - 120		%Rec	1	7/21/2022 7:30:28 AM
Total Organic Carbon by SM 5310C				Batch ID: R76954		Analyst: SLL
Total Organic Carbon	389	50.0	D	mg/L	100	7/19/2022 9:22:00 PM

Client: Calibre Systems
Project: Fox Avenue Site
Lab ID: 2207181-008
Client Sample ID: **Trip Blank**

Collection Date: 7/8/2022 5:02:00 PM
Matrix: Groundwater

Volatile Organic Compounds by EPA Method 8260D Batch ID: 37197 Analyst: TN

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Vinyl chloride	ND	0.200		µg/L	1	7/21/2022 1:58:53 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
Acetone	ND	6.00		µg/L	1	7/21/2022 1:58:53 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/21/2022 1:58:53 AM
Benzene	ND	0.440		µg/L	1	7/21/2022 1:58:53 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
Toluene	ND	0.750		µg/L	1	7/21/2022 1:58:53 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/21/2022 1:58:53 AM
Ethylbenzene	ND	0.400		µg/L	1	7/21/2022 1:58:53 AM
m,p-Xylene	ND	1.00		µg/L	1	7/21/2022 1:58:53 AM
o-Xylene	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/21/2022 1:58:53 AM
Naphthalene	ND	1.25		µg/L	1	7/21/2022 1:58:53 AM
Surr: Dibromofluoromethane	102	80 - 120		%Rec	1	7/21/2022 1:58:53 AM
Surr: Toluene-d8	98.7	80 - 120		%Rec	1	7/21/2022 1:58:53 AM
Surr: 1-Bromo-4-fluorobenzene	89.2	80 - 120		%Rec	1	7/21/2022 1:58:53 AM

Work Order: 2207181
CLIENT: Calibre Systems
Project: Fox Avenue Site

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-76954**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **7/19/2022**	RunNo: **76954**
Client ID: **MBLKW**	Batch ID: **R76954**		Analysis Date: **7/19/2022**	SeqNo: **1580111**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-76954**	SampType: **LCS**	Units: **mg/L**	Prep Date: **7/19/2022**	RunNo: **76954**
Client ID: **LCSW**	Batch ID: **R76954**		Analysis Date: **7/19/2022**	SeqNo: **1580112**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.82	0.500	5.000	0	96.3	90	110				

Sample ID: **2207064-001JDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **7/19/2022**	RunNo: **76954**
Client ID: **BATCH**	Batch ID: **R76954**		Analysis Date: **7/19/2022**	SeqNo: **1580114**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500						0		20	

Sample ID: **2207064-001JMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **7/19/2022**	RunNo: **76954**
Client ID: **BATCH**	Batch ID: **R76954**		Analysis Date: **7/19/2022**	SeqNo: **1580115**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.26	0.500	5.000	0.3760	97.6	68.3	120				

Sample ID: **2207064-001JMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **7/19/2022**	RunNo: **76954**
Client ID: **BATCH**	Batch ID: **R76954**		Analysis Date: **7/19/2022**	SeqNo: **1580116**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	5.09	0.500	5.000	0.3760	94.2	68.3	120	5.255	3.23	30	

Work Order: 2207181
CLIENT: Calibre Systems
Project: Fox Avenue Site

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37197** SampType: **LCS** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **LCSW** Batch ID: **37197** Analysis Date: **7/20/2022** SeqNo: **1581106**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.2	0.200	20.00	0	111	80	120				
1,1-Dichloroethene	22.7	0.500	20.00	0	114	80	120				
Acetone	57.5	6.00	50.00	0	115	80	120				
trans-1,2-Dichloroethene	22.7	0.500	20.00	0	114	80	120				
1,1-Dichloroethane	22.7	0.500	20.00	0	113	80	120				
cis-1,2-Dichloroethene	22.7	0.500	20.00	0	113	80	120				
(MEK) 2-Butanone	57.4	1.50	50.00	0	115	80	120				
Benzene	22.1	0.440	20.00	0	110	80	120				
Trichloroethene (TCE)	20.4	0.500	20.00	0	102	80	120				
Toluene	21.3	0.750	20.00	0	107	80	120				
Tetrachloroethene (PCE)	20.9	0.400	20.00	0	105	80	120				
Ethylbenzene	21.2	0.400	20.00	0	106	80	120				
m,p-Xylene	42.5	1.00	40.00	0	106	80	120				
o-Xylene	21.4	0.500	20.00	0	107	80	120				
1,2,4-Trimethylbenzene	20.6	0.500	20.00	0	103	80	120				
Naphthalene	20.8	1.25	20.00	0	104	80	120				
Surr: Dibromofluoromethane	27.4		25.00		109	80	120				
Surr: Toluene-d8	25.3		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.5		25.00		97.9	80	120				

Sample ID: **MB-37197** SampType: **MBLK** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **MBLKW** Batch ID: **37197** Analysis Date: **7/20/2022** SeqNo: **1581105**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
(MEK) 2-Butanone	ND	1.50									

Work Order: 2207181
CLIENT: Calibre Systems
Project: Fox Avenue Site

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **MB-37197** SampType: **MBLK** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **MBLKW** Batch ID: **37197** Analysis Date: **7/20/2022** SeqNo: **1581105**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	25.8		25.00		103	80	120				
Surr: Toluene-d8	24.6		25.00		98.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.7		25.00		90.7	80	120				

Sample ID: **2207181-003ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **R2-IW1-17-071322** Batch ID: **37197** Analysis Date: **7/20/2022** SeqNo: **1581082**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.733	0.200						0.8107	10.1	30	
1,1-Dichloroethene	ND	0.500						0		30	
Acetone	47.0	6.00						53.37	12.6	30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	2.37	0.500						2.611	9.75	30	
(MEK) 2-Butanone	287	1.50						282.5	1.50	30	E
Benzene	0.472	0.440						0.5208	9.85	30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	175	0.750						176.5	0.969	30	E
Tetrachloroethene (PCE)	ND	0.400						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2207181
CLIENT: Calibre Systems
Project: Fox Avenue Site

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2207181-003ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **R2-IW1-17-071322** Batch ID: **37197** Analysis Date: **7/20/2022** SeqNo: **1581082**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.500						0		30	
Naphthalene	ND	1.25						0		30	
Surr: Dibromofluoromethane	27.8		25.00		111	80	120		0		
Surr: Toluene-d8	24.9		25.00		99.7	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	22.2		25.00		89.0	80	120		0		

Sample ID: **2207193-005ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **BATCH** Batch ID: **37197** Analysis Date: **7/21/2022** SeqNo: **1581094**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
Acetone	75.4	6.00						68.93	8.98	30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	1.69	0.500						1.687	0.186	30	
(MEK) 2-Butanone	16.9	1.50						15.63	7.56	30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	ND	0.750						0		30	
Tetrachloroethene (PCE)	ND	0.400						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	
1,2,4-Trimethylbenzene	ND	0.500						0		30	
Naphthalene	ND	1.25						0		30	
Surr: Dibromofluoromethane	24.7		25.00		98.9	80	120		0		
Surr: Toluene-d8	24.9		25.00		99.5	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.2		25.00		92.8	80	120		0		

Work Order: 2207181
CLIENT: Calibre Systems
Project: Fox Avenue Site

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2207193-010AMS** SampType: **MS** Units: **µg/L** Prep Date: **7/20/2022** RunNo: **76992**
Client ID: **BATCH** Batch ID: **37197** Analysis Date: **7/21/2022** SeqNo: **1581100**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	23.9	0.200	20.00	0	119	52.3	147				
1,1-Dichloroethene	25.3	0.500	20.00	0	126	76.5	136				
Acetone	51.4	6.00	50.00	0	103	56.1	148				
trans-1,2-Dichloroethene	24.7	0.500	20.00	0	124	79.1	131				
1,1-Dichloroethane	24.3	0.500	20.00	0	122	74.3	138				
cis-1,2-Dichloroethene	23.3	0.500	20.00	0	117	78.3	131				
(MEK) 2-Butanone	53.9	1.50	50.00	0	108	61.5	139				
Benzene	24.2	0.440	20.00	0	121	78.5	133				
Trichloroethene (TCE)	21.6	0.500	20.00	0	108	75	133				
Toluene	24.5	0.750	20.00	0	122	77	133				
Tetrachloroethene (PCE)	23.7	0.400	20.00	0	119	78	131				
Ethylbenzene	22.3	0.400	20.00	0	111	77.9	133				
m,p-Xylene	43.7	1.00	40.00	0	109	74.8	133				
o-Xylene	21.5	0.500	20.00	0	108	81.2	126				
1,2,4-Trimethylbenzene	21.0	0.500	20.00	0	105	75.3	134				
Naphthalene	19.9	1.25	20.00	0	99.3	51.6	149				
Surr: Dibromofluoromethane	27.9		25.00		112	80	120				
Surr: Toluene-d8	25.8		25.00		103	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.5		25.00		93.9	80	120				

Sample Log-In Check List

Client Name:	**CLBRE**	Work Order Number:	**2207181**
Logged by:	**Elisabeth Samoray**	Date Received:	**7/13/2022 2:46:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No	☐	Not Present ☐
2.	How was the sample delivered?	Courier				

Log In

3.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No	☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☑	No	☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☑	NA ☐
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes	☐	No	☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	6.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 7/13/22 Page: 1 of: 1

Laboratory Project No (internal): 220718

Special Remarks: cc Justin Nesse

Project Name: Fox Avenue Site

Project No: Fox Ave

Collected by: C Wagoner & JNesse

Location: Seattle, WA

Report To (PM): Tom McKeon

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: Tom.McKeon@calibresys.com

Client: CALIBRE

Address: 16935 SE 39th

City, State, Zip: Bellevue, WA

Telephone: (425) 241-8449

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	TOC				Comments
1 MW-6-071322	7/13/22	1017	GW	3	X															38' Sample
2 DUP-01-071322		0800		3	X															
3 R2-IW1-17-071322		1234		4	X										X					17' Sample
4 S-2-071322		1055		3	X															Seep 2
5 S-3-071322		1102		3	X															Seep 3
6 S-3B-071322		1108		3	X															Seep 3B
7 R2-IW1-45-071322		1307		4	X										X					45' Sample
8 Trip Blank				1	X															
9																				
10																				

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day 7 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Justin Nesse	7/13/22 1355	x Yeyi Chen	Yeyi	7/13/22 14:46
x	Rubens 769	07/13/22 14:15	x		

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Calibre Systems
Tom McKeon
16935 SE 39th St.
Bellevue, WA 98008

RE: Fox Avenue
Work Order Number: 2207263

July 29, 2022

Attention Tom McKeon:

Fremont Analytical, Inc. received 28 sample(s) on 7/19/2022 for the analyses presented in the following report.

Total Organic Carbon by SM 5310C
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Justin Neste
Rune Lassen

Date: *08/10/2022*

CLIENT: Calibre Systems
Project: Fox Avenue
Work Order: 2207263

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2207263-001	R2-IW2-17-071822	07/19/2022 9:20 AM	07/19/2022 1:06 PM
2207263-002	MW-4-071822	07/19/2022 9:15 AM	07/19/2022 1:06 PM
2207263-003	R2-IW2-45-071822	07/19/2022 9:47 AM	07/19/2022 1:06 PM
2207263-004	MW-3-071822	07/19/2022 9:45 AM	07/19/2022 1:06 PM
2207263-005	B-33a-071822	07/19/2022 11:15 AM	07/19/2022 1:06 PM
2207263-006	R2-IW9-12-071822	07/19/2022 10:37 AM	07/19/2022 1:06 PM
2207263-007	R2-IW6-45-071822	07/18/2022 11:29 AM	07/19/2022 1:06 PM
2207263-008	B-64-071822	07/18/2022 12:05 PM	07/19/2022 1:06 PM
2207263-009	B-35-071822	07/18/2022 12:20 PM	07/19/2022 1:06 PM
2207263-010	B-58-071822	07/18/2022 1:42 PM	07/19/2022 1:06 PM
2207263-011	B-19-071822	07/18/2022 1:59 PM	07/19/2022 1:06 PM
2207263-012	R1-IW4a-071822	07/18/2022 2:20 PM	07/19/2022 1:06 PM
2207263-013	B-20a-071822	07/18/2022 2:45 PM	07/19/2022 1:06 PM
2207263-014	NW1-1-071822	07/18/2022 3:15 PM	07/19/2022 1:06 PM
2207263-015	B-22-071822	07/18/2022 3:31 PM	07/19/2022 1:06 PM
2207263-016	R1-IW9-071822	07/18/2022 4:00 PM	07/19/2022 1:06 PM
2207263-017	DUP01-071822	07/18/2022 8:00 AM	07/19/2022 1:06 PM
2207263-018	R0-IW2D-071922	07/19/2022 8:46 AM	07/19/2022 1:06 PM
2207263-019	R0-IW3D-071922	07/19/2022 7:54 AM	07/19/2022 1:06 PM
2207263-020	R0-IW7D-071922	07/19/2022 9:03 AM	07/19/2022 1:06 PM
2207263-021	MW-18S-071922	07/19/2022 9:30 AM	07/19/2022 1:06 PM
2207263-022	MW-7-071922	07/19/2022 10:25 AM	07/19/2022 1:06 PM
2207263-023	R1-IW12-071922	07/19/2022 10:35 AM	07/19/2022 1:06 PM
2207263-024	MW-9-071922	07/19/2022 11:00 AM	07/19/2022 1:06 PM
2207263-025	MW-10-071922	07/19/2022 11:40 AM	07/19/2022 1:06 PM
2207263-026	B-49-071922	07/19/2022 11:34 AM	07/19/2022 1:06 PM
2207263-027	DUP01-071922	07/19/2022 8:00 AM	07/19/2022 1:06 PM
2207263-028	Trip Blank	07/19/2022 1:06 PM	07/19/2022 1:06 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Revision v1

Case Narrative

WO#: **2207263**
Date: **7/29/2022**

CLIENT: Calibre Systems
Project: Fox Avenue

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Revision 1: Review of the injections of each sample indicate that the original report contained incorrect data for sample DUP01-071822 due to a swapped vial/laboratory error. An alternate injection of the correct vial has been uploaded instead. We regret the inconvenience this has caused, and hope you will contact the lab with any questions.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 9:20:00 AM
Project: Fox Avenue
Lab ID: 2207263-001
Matrix: Groundwater
Client Sample ID: R2-IW2-17-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37237		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/26/2022 9:21:01 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
Acetone	242	300	JD	µg/L	50	7/27/2022 6:58:29 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
(MEK) 2-Butanone	751	75.0	D	µg/L	50	7/27/2022 6:58:29 PM
Benzene	ND	0.440		µg/L	1	7/26/2022 9:21:01 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
Toluene	376	37.5	D	µg/L	50	7/27/2022 6:58:29 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/26/2022 9:21:01 PM
Ethylbenzene	ND	0.400		µg/L	1	7/26/2022 9:21:01 PM
m,p-Xylene	ND	1.00		µg/L	1	7/26/2022 9:21:01 PM
o-Xylene	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/26/2022 9:21:01 PM
Naphthalene	ND	1.25		µg/L	1	7/26/2022 9:21:01 PM
Surr: Dibromofluoromethane	97.8	80 - 120		%Rec	1	7/26/2022 9:21:01 PM
Surr: Toluene-d8	93.1	80 - 120		%Rec	1	7/26/2022 9:21:01 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	80 - 120		%Rec	1	7/26/2022 9:21:01 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 9:15:00 AM
Project: Fox Avenue
Lab ID: 2207263-002
Matrix: Groundwater
Client Sample ID: MW-4-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37237		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/26/2022 9:51:46 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
Acetone	ND	6.00		µg/L	1	7/26/2022 9:51:46 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/26/2022 9:51:46 PM
Benzene	ND	0.440		µg/L	1	7/26/2022 9:51:46 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
Toluene	ND	0.750		µg/L	1	7/26/2022 9:51:46 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/26/2022 9:51:46 PM
Ethylbenzene	ND	0.400		µg/L	1	7/26/2022 9:51:46 PM
m,p-Xylene	ND	1.00		µg/L	1	7/26/2022 9:51:46 PM
o-Xylene	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/26/2022 9:51:46 PM
Naphthalene	ND	1.25		µg/L	1	7/26/2022 9:51:46 PM
Surr: Dibromofluoromethane	98.8	80 - 120		%Rec	1	7/26/2022 9:51:46 PM
Surr: Toluene-d8	92.5	80 - 120		%Rec	1	7/26/2022 9:51:46 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	80 - 120		%Rec	1	7/26/2022 9:51:46 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 9:47:00 AM
Project: Fox Avenue
Lab ID: 2207263-003
Matrix: Groundwater
Client Sample ID: R2-IW2-45-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37237		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/26/2022 10:22:27 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
Acetone	246	300	JD	µg/L	50	7/27/2022 7:29:17 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
cis-1,2-Dichloroethene	3.22	0.500		µg/L	1	7/26/2022 10:22:27 PM
(MEK) 2-Butanone	856	75.0	D	µg/L	50	7/27/2022 7:29:17 PM
Benzene	ND	0.440		µg/L	1	7/26/2022 10:22:27 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
Toluene	400	37.5	D	µg/L	50	7/27/2022 7:29:17 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/26/2022 10:22:27 PM
Ethylbenzene	ND	0.400		µg/L	1	7/26/2022 10:22:27 PM
m,p-Xylene	ND	1.00		µg/L	1	7/26/2022 10:22:27 PM
o-Xylene	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/26/2022 10:22:27 PM
Naphthalene	ND	1.25		µg/L	1	7/26/2022 10:22:27 PM
Surr: Dibromofluoromethane	98.7	80 - 120		%Rec	1	7/26/2022 10:22:27 PM
Surr: Toluene-d8	92.8	80 - 120		%Rec	1	7/26/2022 10:22:27 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	80 - 120		%Rec	1	7/26/2022 10:22:27 PM

Client: Calibre Systems
Collection Date: 7/19/2022 9:45:00 AM
Project: Fox Avenue
Lab ID: 2207263-004
Matrix: Groundwater
Client Sample ID: MW-3-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D			Batch ID: 37237			Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/26/2022 10:53:10 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 10:53:10 PM
Acetone	ND	6.00		µg/L	1	7/26/2022 10:53:10 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/26/2022 10:53:10 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/26/2022 10:53:10 PM
cis-1,2-Dichloroethene	1.31	0.500		µg/L	1	7/26/2022 10:53:10 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/26/2022 10:53:10 PM
Benzene	ND	0.440		µg/L	1	7/26/2022 10:53:10 PM
Trichloroethene (TCE)	1.31	0.500		µg/L	1	7/26/2022 10:53:10 PM
Toluene	ND	0.750		µg/L	1	7/26/2022 10:53:10 PM
Tetrachloroethene (PCE)	1.77	0.400		µg/L	1	7/26/2022 10:53:10 PM
Ethylbenzene	ND	0.400		µg/L	1	7/26/2022 10:53:10 PM
m,p-Xylene	ND	1.00		µg/L	1	7/26/2022 10:53:10 PM
o-Xylene	ND	0.500		µg/L	1	7/26/2022 10:53:10 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/26/2022 10:53:10 PM
Naphthalene	ND	1.25		µg/L	1	7/26/2022 10:53:10 PM
Surr: Dibromofluoromethane	97.8	80 - 120		%Rec	1	7/26/2022 10:53:10 PM
Surr: Toluene-d8	91.4	80 - 120		%Rec	1	7/26/2022 10:53:10 PM
Surr: 1-Bromo-4-fluorobenzene	93.9	80 - 120		%Rec	1	7/26/2022 10:53:10 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 11:15:00 AM
Project: Fox Avenue
Lab ID: 2207263-005
Matrix: Groundwater
Client Sample ID: B-33a-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 1:55:58 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 1:55:58 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
1,1-Dichloroethane	0.930	0.500		µg/L	1	7/27/2022 1:55:58 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 1:55:58 AM
Benzene	4.40	0.440		µg/L	1	7/27/2022 1:55:58 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 1:55:58 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 1:55:58 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 1:55:58 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 1:55:58 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 1:55:58 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 1:55:58 AM
Surr: Dibromofluoromethane	96.5	80 - 120		%Rec	1	7/27/2022 1:55:58 AM
Surr: Toluene-d8	90.7	80 - 120		%Rec	1	7/27/2022 1:55:58 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	80 - 120		%Rec	1	7/27/2022 1:55:58 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 10:37:00 AM
Project: Fox Avenue
Lab ID: 2207263-006
Matrix: Groundwater
Client Sample ID: R2-IW9-12-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 2:26:10 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 2:26:10 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 2:26:10 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 2:26:10 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 2:26:10 AM
cis-1,2-Dichloroethene	1.72	0.500		µg/L	1	7/27/2022 2:26:10 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 2:26:10 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 2:26:10 AM
Trichloroethene (TCE)	0.567	0.500		µg/L	1	7/27/2022 2:26:10 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 2:26:10 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 2:26:10 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 2:26:10 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 2:26:10 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 2:26:10 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 2:26:10 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 2:26:10 AM
Surr: Dibromofluoromethane	96.9	80 - 120		%Rec	1	7/27/2022 2:26:10 AM
Surr: Toluene-d8	91.1	80 - 120		%Rec	1	7/27/2022 2:26:10 AM
Surr: 1-Bromo-4-fluorobenzene	92.3	80 - 120		%Rec	1	7/27/2022 2:26:10 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 11:29:00 AM
Project: Fox Avenue
Lab ID: 2207263-007
Matrix: Groundwater
Client Sample ID: R2-IW6-45-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 3:26:37 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 3:26:37 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 3:26:37 AM
Benzene	1.24	0.440		µg/L	1	7/27/2022 3:26:37 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 3:26:37 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 3:26:37 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 3:26:37 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 3:26:37 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 3:26:37 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 3:26:37 AM
Surr: Dibromofluoromethane	98.1	80 - 120		%Rec	1	7/27/2022 3:26:37 AM
Surr: Toluene-d8	90.4	80 - 120		%Rec	1	7/27/2022 3:26:37 AM
Surr: 1-Bromo-4-fluorobenzene	91.7	80 - 120		%Rec	1	7/27/2022 3:26:37 AM

Client: Calibre Systems
Collection Date: 7/18/2022 12:05:00 PM
Project: Fox Avenue
Lab ID: 2207263-008
Matrix: Groundwater
Client Sample ID: B-64-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D			Batch ID: 37251			Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 3:56:55 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 3:56:55 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
cis-1,2-Dichloroethene	1.15	0.500		µg/L	1	7/27/2022 3:56:55 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 3:56:55 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 3:56:55 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 3:56:55 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 3:56:55 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 3:56:55 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 3:56:55 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 3:56:55 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 3:56:55 AM
Surr: Dibromofluoromethane	97.6	80 - 120		%Rec	1	7/27/2022 3:56:55 AM
Surr: Toluene-d8	90.3	80 - 120		%Rec	1	7/27/2022 3:56:55 AM
Surr: 1-Bromo-4-fluorobenzene	91.6	80 - 120		%Rec	1	7/27/2022 3:56:55 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 12:20:00 PM
Project: Fox Avenue
Lab ID: 2207263-009
Matrix: Groundwater
Client Sample ID: B-35-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 4:27:12 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 4:27:12 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 4:27:12 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 4:27:12 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 4:27:12 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 4:27:12 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 4:27:12 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 4:27:12 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 4:27:12 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 4:27:12 AM
Surr: Dibromofluoromethane	97.3	80 - 120		%Rec	1	7/27/2022 4:27:12 AM
Surr: Toluene-d8	90.7	80 - 120		%Rec	1	7/27/2022 4:27:12 AM
Surr: 1-Bromo-4-fluorobenzene	91.7	80 - 120		%Rec	1	7/27/2022 4:27:12 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 1:42:00 PM
Project: Fox Avenue
Lab ID: 2207263-010
Matrix: Groundwater
Client Sample ID: B-58-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	7.62	0.200		µg/L	1	7/27/2022 4:57:29 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 4:57:29 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 4:57:29 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 4:57:29 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 4:57:29 AM
cis-1,2-Dichloroethene	30.4	0.500		µg/L	1	7/27/2022 4:57:29 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 4:57:29 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 4:57:29 AM
Trichloroethene (TCE)	11.8	0.500		µg/L	1	7/27/2022 4:57:29 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 4:57:29 AM
Tetrachloroethene (PCE)	59.0	0.400	E	µg/L	1	7/27/2022 4:57:29 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 4:57:29 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 4:57:29 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 4:57:29 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 4:57:29 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 4:57:29 AM
Surr: Dibromofluoromethane	96.8	80 - 120		%Rec	1	7/27/2022 4:57:29 AM
Surr: Toluene-d8	90.7	80 - 120		%Rec	1	7/27/2022 4:57:29 AM
Surr: 1-Bromo-4-fluorobenzene	90.8	80 - 120		%Rec	1	7/27/2022 4:57:29 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 1:59:00 PM
Project: Fox Avenue
Lab ID: 2207263-011
Matrix: Groundwater
Client Sample ID: B-19-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	9.64	0.200		µg/L	1	7/27/2022 5:27:40 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 5:27:40 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
cis-1,2-Dichloroethene	8.96	0.500		µg/L	1	7/27/2022 5:27:40 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 5:27:40 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 5:27:40 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 5:27:40 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 5:27:40 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 5:27:40 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 5:27:40 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 5:27:40 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 5:27:40 AM
Surr: Dibromofluoromethane	97.0	80 - 120		%Rec	1	7/27/2022 5:27:40 AM
Surr: Toluene-d8	90.5	80 - 120		%Rec	1	7/27/2022 5:27:40 AM
Surr: 1-Bromo-4-fluorobenzene	91.2	80 - 120		%Rec	1	7/27/2022 5:27:40 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 2:20:00 PM
Project: Fox Avenue
Lab ID: 2207263-012
Matrix: Groundwater
Client Sample ID: R1-IW4a-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	2.66	0.200		µg/L	1	7/27/2022 5:58:01 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 5:58:01 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
cis-1,2-Dichloroethene	2.98	0.500		µg/L	1	7/27/2022 5:58:01 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 5:58:01 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 5:58:01 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 5:58:01 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 5:58:01 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 5:58:01 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 5:58:01 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 5:58:01 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 5:58:01 AM
Surr: Dibromofluoromethane	97.4	80 - 120		%Rec	1	7/27/2022 5:58:01 AM
Surr: Toluene-d8	90.0	80 - 120		%Rec	1	7/27/2022 5:58:01 AM
Surr: 1-Bromo-4-fluorobenzene	93.3	80 - 120		%Rec	1	7/27/2022 5:58:01 AM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	16.0	2.00	D	mg/L	4	7/25/2022 6:42:00 PM

Client: Calibre Systems
Collection Date: 7/18/2022 2:45:00 PM
Project: Fox Avenue
Lab ID: 2207263-013
Matrix: Groundwater
Client Sample ID: B-20a-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D			Batch ID: 37251			Analyst: TN
Vinyl chloride	4.83	0.200		µg/L	1	7/27/2022 6:28:18 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:28:18 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 6:28:18 AM
trans-1,2-Dichloroethene	1.54	0.500		µg/L	1	7/27/2022 6:28:18 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 6:28:18 AM
cis-1,2-Dichloroethene	35.0	0.500		µg/L	1	7/27/2022 6:28:18 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 6:28:18 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 6:28:18 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 6:28:18 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 6:28:18 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 6:28:18 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 6:28:18 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 6:28:18 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 6:28:18 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 6:28:18 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 6:28:18 AM
Surr: Dibromofluoromethane	98.1	80 - 120		%Rec	1	7/27/2022 6:28:18 AM
Surr: Toluene-d8	91.5	80 - 120		%Rec	1	7/27/2022 6:28:18 AM
Surr: 1-Bromo-4-fluorobenzene	90.3	80 - 120		%Rec	1	7/27/2022 6:28:18 AM

Client: Calibre Systems
Collection Date: 7/18/2022 3:15:00 PM
Project: Fox Avenue
Lab ID: 2207263-014
Matrix: Groundwater
Client Sample ID: NW1-1-071822

Volatile Organic Compounds by EPA Method 8260D

Batch ID: 37251 Analyst: TN

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Vinyl chloride	77.1	2.00	D	µg/L	10	7/27/2022 8:00:07 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 6:58:29 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
cis-1,2-Dichloroethene	47.3	5.00	D	µg/L	10	7/27/2022 8:00:07 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 6:58:29 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 6:58:29 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 6:58:29 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 6:58:29 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 6:58:29 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 6:58:29 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 6:58:29 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 6:58:29 AM
Surr: Dibromofluoromethane	98.3	80 - 120		%Rec	1	7/27/2022 6:58:29 AM
Surr: Toluene-d8	90.9	80 - 120		%Rec	1	7/27/2022 6:58:29 AM
Surr: 1-Bromo-4-fluorobenzene	91.5	80 - 120		%Rec	1	7/27/2022 6:58:29 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 3:31:00 PM
Project: Fox Avenue
Lab ID: 2207263-015
Matrix: Groundwater
Client Sample ID: B-22-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	4.94	0.200		µg/L	1	7/27/2022 7:28:40 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 7:28:40 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 7:28:40 AM
trans-1,2-Dichloroethene	0.663	0.500		µg/L	1	7/27/2022 7:28:40 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 7:28:40 AM
cis-1,2-Dichloroethene	79.9	5.00	D	µg/L	10	7/27/2022 8:30:48 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 7:28:40 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 7:28:40 AM
Trichloroethene (TCE)	19.1	0.500		µg/L	1	7/27/2022 7:28:40 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 7:28:40 AM
Tetrachloroethene (PCE)	86.2	4.00	D	µg/L	10	7/27/2022 8:30:48 PM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 7:28:40 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 7:28:40 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 7:28:40 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 7:28:40 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 7:28:40 AM
Surr: Dibromofluoromethane	98.2	80 - 120		%Rec	1	7/27/2022 7:28:40 AM
Surr: Toluene-d8	90.2	80 - 120		%Rec	1	7/27/2022 7:28:40 AM
Surr: 1-Bromo-4-fluorobenzene	89.7	80 - 120		%Rec	1	7/27/2022 7:28:40 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/18/2022 4:00:00 PM
Project: Fox Avenue
Lab ID: 2207263-016
Matrix: Groundwater
Client Sample ID: R1-IW9-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	26.4	0.200		µg/L	1	7/27/2022 7:59:03 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 7:59:03 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 7:59:03 AM
trans-1,2-Dichloroethene	6.78	0.500		µg/L	1	7/27/2022 7:59:03 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 7:59:03 AM
cis-1,2-Dichloroethene	778	100	D	µg/L	200	7/27/2022 9:01:24 PM
(MEK) 2-Butanone	506	300	D	µg/L	200	7/27/2022 9:01:24 PM
Benzene	ND	0.440		µg/L	1	7/27/2022 7:59:03 AM
Trichloroethene (TCE)	4.82	0.500		µg/L	1	7/27/2022 7:59:03 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 7:59:03 AM
Tetrachloroethene (PCE)	11.4	0.400		µg/L	1	7/27/2022 7:59:03 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 7:59:03 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 7:59:03 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 7:59:03 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 7:59:03 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 7:59:03 AM
Surr: Dibromofluoromethane	92.2	80 - 120		%Rec	1	7/27/2022 7:59:03 AM
Surr: Toluene-d8	88.2	80 - 120		%Rec	1	7/27/2022 7:59:03 AM
Surr: 1-Bromo-4-fluorobenzene	94.1	80 - 120		%Rec	1	7/27/2022 7:59:03 AM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	445	50.0	D	mg/L	100	7/25/2022 7:03:00 PM

Client: Calibre Systems
Collection Date: 7/18/2022 8:00:00 AM
Project: Fox Avenue
Lab ID: 2207263-017
Matrix: Groundwater
Client Sample ID: DUP01-071822

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	2.00	D	µg/L	10	7/27/2022 9:31:56 PM
1,1-Dichloroethene	ND	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
Acetone	ND	60.0	D	µg/L	10	7/27/2022 9:31:56 PM
trans-1,2-Dichloroethene	ND	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
1,1-Dichloroethane	ND	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
cis-1,2-Dichloroethene	83.1	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
(MEK) 2-Butanone	ND	15.0	D	µg/L	10	7/27/2022 9:31:56 PM
Benzene	ND	4.40	D	µg/L	10	7/27/2022 9:31:56 PM
Trichloroethene (TCE)	18.2	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
Toluene	ND	7.50	D	µg/L	10	7/27/2022 9:31:56 PM
Tetrachloroethene (PCE)	91.3	4.00	D	µg/L	10	7/27/2022 9:31:56 PM
Ethylbenzene	ND	4.00	D	µg/L	10	7/27/2022 9:31:56 PM
m,p-Xylene	ND	10.0	D	µg/L	10	7/27/2022 9:31:56 PM
o-Xylene	ND	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
1,2,4-Trimethylbenzene	ND	5.00	D	µg/L	10	7/27/2022 9:31:56 PM
Naphthalene	ND	12.5	D	µg/L	10	7/27/2022 9:31:56 PM
Surr: Dibromofluoromethane	96.5	80 - 120	D	%Rec	10	7/27/2022 9:31:56 PM
Surr: Toluene-d8	88.8	80 - 120	D	%Rec	10	7/27/2022 9:31:56 PM
Surr: 1-Bromo-4-fluorobenzene	88.8	80 - 120	D	%Rec	10	7/27/2022 9:31:56 PM

Client: Calibre Systems
Collection Date: 7/19/2022 8:46:00 AM
Project: Fox Avenue
Lab ID: 2207263-018
Matrix: Groundwater
Client Sample ID: R0-IW2D-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 8:59:37 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
Acetone	263	60.0	D	µg/L	10	7/27/2022 10:02:23 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
cis-1,2-Dichloroethene	18.8	0.500		µg/L	1	7/27/2022 8:59:37 AM
(MEK) 2-Butanone	271	15.0	D	µg/L	10	7/27/2022 10:02:23 PM
Benzene	ND	0.440		µg/L	1	7/27/2022 8:59:37 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 8:59:37 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 8:59:37 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 8:59:37 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 8:59:37 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 8:59:37 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 8:59:37 AM
Surr: Dibromofluoromethane	98.4	80 - 120		%Rec	1	7/27/2022 8:59:37 AM
Surr: Toluene-d8	92.8	80 - 120		%Rec	1	7/27/2022 8:59:37 AM
Surr: 1-Bromo-4-fluorobenzene	100	80 - 120		%Rec	1	7/27/2022 8:59:37 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 7:54:00 AM
Project: Fox Avenue
Lab ID: 2207263-019
Matrix: Groundwater
Client Sample ID: R0-IW3D-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	279	10.0	D	µg/L	50	7/27/2022 10:32:49 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 9:29:54 AM
Acetone	513	300	D	µg/L	50	7/27/2022 10:32:49 PM
trans-1,2-Dichloroethene	2.47	0.500		µg/L	1	7/27/2022 9:29:54 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 9:29:54 AM
cis-1,2-Dichloroethene	277	25.0	D	µg/L	50	7/27/2022 10:32:49 PM
(MEK) 2-Butanone	362	75.0	D	µg/L	50	7/27/2022 10:32:49 PM
Benzene	ND	0.440		µg/L	1	7/27/2022 9:29:54 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 9:29:54 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 9:29:54 AM
Tetrachloroethene (PCE)	7.11	0.400		µg/L	1	7/27/2022 9:29:54 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 9:29:54 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 9:29:54 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 9:29:54 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 9:29:54 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 9:29:54 AM
Surr: Dibromofluoromethane	94.2	80 - 120		%Rec	1	7/27/2022 9:29:54 AM
Surr: Toluene-d8	90.3	80 - 120		%Rec	1	7/27/2022 9:29:54 AM
Surr: 1-Bromo-4-fluorobenzene	104	80 - 120		%Rec	1	7/27/2022 9:29:54 AM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	3,940	50.0	D	mg/L	100	7/25/2022 7:26:00 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 9:03:00 AM
Project: Fox Avenue
Lab ID: 2207263-020
Matrix: Groundwater
Client Sample ID: R0-IW7D-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	42.8	2.00	D	µg/L	10	7/27/2022 11:03:07 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 10:00:11 AM
Acetone	204	60.0	D	µg/L	10	7/27/2022 11:03:07 PM
trans-1,2-Dichloroethene	1.72	0.500		µg/L	1	7/27/2022 10:00:11 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 10:00:11 AM
cis-1,2-Dichloroethene	98.2	5.00	D	µg/L	10	7/27/2022 11:03:07 PM
(MEK) 2-Butanone	147	15.0	D	µg/L	10	7/27/2022 11:03:07 PM
Benzene	ND	0.440		µg/L	1	7/27/2022 10:00:11 AM
Trichloroethene (TCE)	11.4	0.500		µg/L	1	7/27/2022 10:00:11 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 10:00:11 AM
Tetrachloroethene (PCE)	5.78	0.400		µg/L	1	7/27/2022 10:00:11 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 10:00:11 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 10:00:11 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 10:00:11 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 10:00:11 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 10:00:11 AM
Surr: Dibromofluoromethane	97.4	80 - 120		%Rec	1	7/27/2022 10:00:11 AM
Surr: Toluene-d8	90.4	80 - 120		%Rec	1	7/27/2022 10:00:11 AM
Surr: 1-Bromo-4-fluorobenzene	103	80 - 120		%Rec	1	7/27/2022 10:00:11 AM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	1,250	50.0	D	mg/L	100	7/25/2022 7:49:00 PM

Client: Calibre Systems
Collection Date: 7/19/2022 9:30:00 AM
Project: Fox Avenue
Lab ID: 2207263-021
Matrix: Groundwater
Client Sample ID: MW-18S-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	52.8	2.00	D	µg/L	10	7/27/2022 11:33:27 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/28/2022 1:34:13 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 11:31:05 AM
trans-1,2-Dichloroethene	1.06	0.500		µg/L	1	7/27/2022 11:31:05 AM
1,1-Dichloroethane	4.95	0.500		µg/L	1	7/28/2022 1:34:13 AM
cis-1,2-Dichloroethene	41.6	5.00	D	µg/L	10	7/27/2022 11:33:27 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 11:31:05 AM
Benzene	ND	0.440		µg/L	1	7/28/2022 1:34:13 AM
Trichloroethene (TCE)	0.873	0.500		µg/L	1	7/28/2022 1:34:13 AM
Toluene	ND	0.750		µg/L	1	7/28/2022 1:34:13 AM
Tetrachloroethene (PCE)	3.20	0.400		µg/L	1	7/27/2022 11:31:05 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 11:31:05 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 11:31:05 AM
o-Xylene	2.32	0.500		µg/L	1	7/27/2022 11:31:05 AM
1,2,4-Trimethylbenzene	0.654	0.500		µg/L	1	7/27/2022 11:31:05 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 11:31:05 AM
Surr: Dibromofluoromethane	97.9	80 - 120		%Rec	1	7/27/2022 11:31:05 AM
Surr: Toluene-d8	90.9	80 - 120		%Rec	1	7/27/2022 11:31:05 AM
Surr: 1-Bromo-4-fluorobenzene	98.0	80 - 120		%Rec	1	7/27/2022 11:31:05 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 10:25:00 AM
Project: Fox Avenue
Lab ID: 2207263-022
Matrix: Groundwater
Client Sample ID: MW-7-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 6:27:28 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:27:28 PM
Acetone	ND	6.00		µg/L	1	7/27/2022 12:01:27 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 12:01:27 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 6:27:28 PM
cis-1,2-Dichloroethene	0.523	0.500		µg/L	1	7/27/2022 12:01:27 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 6:27:28 PM
Benzene	ND	0.440		µg/L	1	7/27/2022 6:27:28 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 6:27:28 PM
Toluene	ND	0.750		µg/L	1	7/27/2022 6:27:28 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 12:01:27 PM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 12:01:27 PM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 12:01:27 PM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 12:01:27 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 12:01:27 PM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 12:01:27 PM
Surr: Dibromofluoromethane	97.6	80 - 120		%Rec	1	7/27/2022 12:01:27 PM
Surr: Toluene-d8	90.1	80 - 120		%Rec	1	7/27/2022 12:01:27 PM
Surr: 1-Bromo-4-fluorobenzene	93.1	80 - 120		%Rec	1	7/27/2022 12:01:27 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 10:35:00 AM
Project: Fox Avenue
Lab ID: 2207263-023
Matrix: Groundwater
Client Sample ID: R1-IW12-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	72.0	2.00	D	µg/L	10	7/28/2022 12:03:44 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/28/2022 2:04:19 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 12:31:47 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 12:31:47 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/28/2022 2:04:19 AM
cis-1,2-Dichloroethene	66.2	5.00	D	µg/L	10	7/28/2022 12:03:44 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/28/2022 2:04:19 AM
Benzene	ND	0.440		µg/L	1	7/28/2022 2:04:19 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/28/2022 2:04:19 AM
Toluene	ND	0.750		µg/L	1	7/28/2022 2:04:19 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 12:31:47 PM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 12:31:47 PM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 12:31:47 PM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 12:31:47 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 12:31:47 PM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 12:31:47 PM
Surr: Dibromofluoromethane	97.1	80 - 120		%Rec	1	7/27/2022 12:31:47 PM
Surr: Toluene-d8	89.5	80 - 120		%Rec	1	7/27/2022 12:31:47 PM
Surr: 1-Bromo-4-fluorobenzene	92.5	80 - 120		%Rec	1	7/27/2022 12:31:47 PM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	26.6	0.500		mg/L	1	7/25/2022 8:13:00 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 11:00:00 AM
Project: Fox Avenue
Lab ID: 2207263-024
Matrix: Groundwater
Client Sample ID: MW-9-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37251		Analyst: TN
Vinyl chloride	45.8	2.00	D	µg/L	10	7/28/2022 12:33:56 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/28/2022 1:04:07 AM
Acetone	34.9	6.00		µg/L	1	7/27/2022 1:02:21 PM
trans-1,2-Dichloroethene	1.10	0.500		µg/L	1	7/27/2022 1:02:21 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/28/2022 1:04:07 AM
cis-1,2-Dichloroethene	19.0	0.500		µg/L	1	7/27/2022 1:02:21 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 1:02:21 PM
Benzene	ND	0.440		µg/L	1	7/28/2022 1:04:07 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/28/2022 1:04:07 AM
Toluene	ND	0.750		µg/L	1	7/28/2022 1:04:07 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 1:02:21 PM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 1:02:21 PM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 1:02:21 PM
o-Xylene	1.08	0.500		µg/L	1	7/27/2022 1:02:21 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 1:02:21 PM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 1:02:21 PM
Surr: Dibromofluoromethane	98.1	80 - 120		%Rec	1	7/27/2022 1:02:21 PM
Surr: Toluene-d8	90.5	80 - 120		%Rec	1	7/27/2022 1:02:21 PM
Surr: 1-Bromo-4-fluorobenzene	95.0	80 - 120		%Rec	1	7/27/2022 1:02:21 PM
Total Organic Carbon by SM 5310C				Batch ID: R77096		Analyst: ALT
Total Organic Carbon	8.45	5.00	D	mg/L	10	7/25/2022 9:56:00 PM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 11:40:00 AM
Project: Fox Avenue
Lab ID: 2207263-025
Matrix: Groundwater
Client Sample ID: MW-10-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37254		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 6:15:53 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 12:53:41 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 6:15:53 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 6:15:53 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 6:15:53 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 6:15:53 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 6:15:53 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 6:15:53 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 6:15:53 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 6:15:53 AM
Surr: Dibromofluoromethane	103	80 - 120		%Rec	1	7/27/2022 6:15:53 AM
Surr: Toluene-d8	98.5	80 - 120		%Rec	1	7/27/2022 6:15:53 AM
Surr: 1-Bromo-4-fluorobenzene	99.7	80 - 120		%Rec	1	7/27/2022 6:15:53 AM

Client: Calibre Systems
Collection Date: 7/19/2022 11:34:00 AM
Project: Fox Avenue
Lab ID: 2207263-026
Matrix: Groundwater
Client Sample ID: B-49-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37254		Analyst: TN
Vinyl chloride	2.23	0.200		µg/L	1	7/27/2022 6:46:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:46:00 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 6:46:00 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 6:46:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 6:46:00 AM
cis-1,2-Dichloroethene	0.881	0.500		µg/L	1	7/27/2022 6:46:00 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 6:46:00 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 6:46:00 AM
Trichloroethene (TCE)	1.34	0.500	Q	µg/L	1	7/27/2022 6:46:00 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 6:46:00 AM
Tetrachloroethene (PCE)	5.28	0.400		µg/L	1	7/27/2022 6:46:00 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 6:46:00 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 6:46:00 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 6:46:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 6:46:00 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 6:46:00 AM
Surr: Dibromofluoromethane	99.4	80 - 120		%Rec	1	7/27/2022 6:46:00 AM
Surr: Toluene-d8	97.2	80 - 120		%Rec	1	7/27/2022 6:46:00 AM
Surr: 1-Bromo-4-fluorobenzene	95.5	80 - 120		%Rec	1	7/27/2022 6:46:00 AM

NOTES:
Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 8:00:00 AM
Project: Fox Avenue
Lab ID: 2207263-027
Matrix: Groundwater
Client Sample ID: DUP01-071922

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37254		Analyst: TN
Vinyl chloride	57.0	0.200	E	µg/L	1	7/27/2022 7:16:08 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 7:16:08 AM
Acetone	22.6	6.00		µg/L	1	7/27/2022 7:16:08 AM
trans-1,2-Dichloroethene	1.58	0.500		µg/L	1	7/27/2022 7:16:08 AM
1,1-Dichloroethane	1.59	0.500		µg/L	1	7/27/2022 7:16:08 AM
cis-1,2-Dichloroethene	19.2	0.500		µg/L	1	7/27/2022 7:16:08 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 7:16:08 AM
Benzene	0.480	0.440		µg/L	1	7/27/2022 7:16:08 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 7:16:08 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 7:16:08 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 7:16:08 AM
Ethylbenzene	0.434	0.400		µg/L	1	7/27/2022 7:16:08 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 7:16:08 AM
o-Xylene	1.58	0.500		µg/L	1	7/27/2022 7:16:08 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 7:16:08 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 7:16:08 AM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	7/27/2022 7:16:08 AM
Surr: Toluene-d8	97.9	80 - 120		%Rec	1	7/27/2022 7:16:08 AM
Surr: 1-Bromo-4-fluorobenzene	97.0	80 - 120		%Rec	1	7/27/2022 7:16:08 AM

Analytical Report

Work Order: **2207263**
Date Reported: **7/29/2022**

Client: Calibre Systems
Collection Date: 7/19/2022 1:06:00 PM
Project: Fox Avenue
Lab ID: 2207263-028
Matrix: Groundwater
Client Sample ID: Trip Blank

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37254		Analyst: TN
Vinyl chloride	ND	0.200		µg/L	1	7/27/2022 5:15:33 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
Acetone	ND	6.00		µg/L	1	7/27/2022 5:15:33 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	7/27/2022 5:15:33 AM
Benzene	ND	0.440		µg/L	1	7/27/2022 5:15:33 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
Toluene	ND	0.750		µg/L	1	7/27/2022 5:15:33 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	7/27/2022 5:15:33 AM
Ethylbenzene	ND	0.400		µg/L	1	7/27/2022 5:15:33 AM
m,p-Xylene	ND	1.00		µg/L	1	7/27/2022 5:15:33 AM
o-Xylene	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	7/27/2022 5:15:33 AM
Naphthalene	ND	1.25		µg/L	1	7/27/2022 5:15:33 AM
Surr: Dibromofluoromethane	98.3	80 - 120		%Rec	1	7/27/2022 5:15:33 AM
Surr: Toluene-d8	97.0	80 - 120		%Rec	1	7/27/2022 5:15:33 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	80 - 120		%Rec	1	7/27/2022 5:15:33 AM

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Total Organic Carbon by SM 5310C

Sample ID: **MB-77096**	SampType: **MBLK**	Units: **mg/L**	Prep Date: **7/25/2022**	RunNo: **77096**
Client ID: **MBLKW**	Batch ID: **R77096**		Analysis Date: **7/25/2022**	SeqNo: **1583430**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	ND	0.500									

Sample ID: **LCS-77096**	SampType: **LCS**	Units: **mg/L**	Prep Date: **7/25/2022**	RunNo: **77096**
Client ID: **LCSW**	Batch ID: **R77096**		Analysis Date: **7/25/2022**	SeqNo: **1583431**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	4.83	0.500	5.000	0	96.6	90	110				

Sample ID: **2207263-023BDUP**	SampType: **DUP**	Units: **mg/L**	Prep Date: **7/25/2022**	RunNo: **77096**
Client ID: **R1-IW12-071922**	Batch ID: **R77096**		Analysis Date: **7/25/2022**	SeqNo: **1583437**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	26.4	0.500						26.65	0.791	20	

Sample ID: **2207263-023BMS**	SampType: **MS**	Units: **mg/L**	Prep Date: **7/25/2022**	RunNo: **77096**
Client ID: **R1-IW12-071922**	Batch ID: **R77096**		Analysis Date: **7/25/2022**	SeqNo: **1583438**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	30.7	0.500	5.000	26.65	82.0	68.3	120				

Sample ID: **2207263-023BMSD**	SampType: **MSD**	Units: **mg/L**	Prep Date: **7/25/2022**	RunNo: **77096**
Client ID: **R1-IW12-071922**	Batch ID: **R77096**		Analysis Date: **7/25/2022**	SeqNo: **1583439**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Organic Carbon	30.6	0.500	5.000	26.65	80.1	68.3	120	30.75	0.322	30	

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37237** SampType: **LCS** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **LCSW** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1583524**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	18.7	0.200	20.00	0	93.3	80	120				
1,1-Dichloroethene	19.0	0.500	20.00	0	95.0	80	120				
Acetone	55.0	6.00	50.00	0	110	80	120				
trans-1,2-Dichloroethene	19.2	0.500	20.00	0	96.0	80	120				
1,1-Dichloroethane	16.8	0.500	20.00	0	84.1	80	120				
cis-1,2-Dichloroethene	19.1	0.500	20.00	0	95.4	80	120				
(MEK) 2-Butanone	57.5	1.50	50.00	0	115	80	120				
Benzene	18.9	0.440	20.00	0	94.5	80	120				
Trichloroethene (TCE)	18.9	0.500	20.00	0	94.4	80	120				
Toluene	19.1	0.750	20.00	0	95.7	80	120				
Tetrachloroethene (PCE)	20.1	0.400	20.00	0	101	80	120				
Ethylbenzene	19.4	0.400	20.00	0	97.1	80	120				
m,p-Xylene	39.8	1.00	40.00	0	99.6	80	120				
o-Xylene	19.9	0.500	20.00	0	99.5	80	120				
1,2,4-Trimethylbenzene	20.3	0.500	20.00	0	101	80	120				
Naphthalene	21.8	1.25	20.00	0	109	80	120				
Surr: Dibromofluoromethane	24.6		25.00		98.4	80	120				
Surr: Toluene-d8	24.0		25.00		96.1	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.2		25.00		105	80	120				

Sample ID: **MB-37237** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **MBLKW** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1583523**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
(MEK) 2-Butanone	ND	1.50									

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **MB-37237** SampType: **MBLK** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **MBLKW** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1583523**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	24.4		25.00		97.4	80	120				
Surr: Toluene-d8	23.5		25.00		94.1	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.0	80	120				

Sample ID: **2207334-003ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **BATCH** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1584258**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
Acetone	ND	6.00						0		30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	ND	0.500						0		30	
(MEK) 2-Butanone	ND	1.50						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	ND	0.750						0		30	
Tetrachloroethene (PCE)	ND	0.400						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2207334-003ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **BATCH** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1584258**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.500						0		30	
Naphthalene	ND	1.25						0		30	
Surr: Dibromofluoromethane	24.4		25.00		97.8	80	120		0		
Surr: Toluene-d8	23.1		25.00		92.6	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.2		25.00		92.9	80	120		0		

Sample ID: **2207263-004AMS** SampType: **MS** Units: **µg/L** Prep Date: **7/25/2022** RunNo: **77103**
Client ID: **MW-3-071822** Batch ID: **37237** Analysis Date: **7/26/2022** SeqNo: **1584254**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	14.5	0.200	20.00	0	72.3	52.3	147				
1,1-Dichloroethene	16.0	0.500	20.00	0	80.2	76.5	136				
Acetone	42.7	6.00	50.00	0	85.4	56.1	148				
trans-1,2-Dichloroethene	17.2	0.500	20.00	0	86.0	79.1	131				
1,1-Dichloroethane	16.2	0.500	20.00	0	81.0	74.3	138				
cis-1,2-Dichloroethene	18.1	0.500	20.00	1.311	83.7	78.3	131				
(MEK) 2-Butanone	40.9	1.50	50.00	0	81.8	61.5	139				
Benzene	16.9	0.440	20.00	0	84.4	78.5	133				
Trichloroethene (TCE)	16.9	0.500	20.00	1.306	78.1	75	133				
Toluene	17.4	0.750	20.00	0	87.2	77	133				
Tetrachloroethene (PCE)	20.8	0.400	20.00	1.766	95.3	78	131				
Ethylbenzene	18.4	0.400	20.00	0	92.0	77.9	133				
m,p-Xylene	37.4	1.00	40.00	0	93.5	74.8	133				
o-Xylene	18.6	0.500	20.00	0	93.0	81.2	126				
1,2,4-Trimethylbenzene	19.1	0.500	20.00	0	95.3	75.3	134				
Naphthalene	17.6	1.25	20.00	0	87.9	51.6	149				
Surr: Dibromofluoromethane	24.3		25.00		97.4	80	120				
Surr: Toluene-d8	23.1		25.00		92.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.8	80	120				

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37251** SampType: **LCS** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **LCSW** Batch ID: **37251** Analysis Date: **7/26/2022** SeqNo: **1584475**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	18.6	0.200	20.00	0	92.8	80	120				
1,1-Dichloroethene	17.0	0.500	20.00	0	85.0	80	120				
Acetone	48.1	6.00	50.00	0	96.3	80	120				
trans-1,2-Dichloroethene	19.1	0.500	20.00	0	95.6	80	120				
1,1-Dichloroethane	18.2	0.500	20.00	0	91.0	80	120				
cis-1,2-Dichloroethene	19.0	0.500	20.00	0	95.2	80	120				
(MEK) 2-Butanone	47.1	1.50	50.00	0	94.3	80	120				
Benzene	18.6	0.440	20.00	0	92.8	80	120				
Trichloroethene (TCE)	18.1	0.500	20.00	0	90.4	80	120				
Toluene	19.4	0.750	20.00	0	96.8	80	120				
Tetrachloroethene (PCE)	20.2	0.400	20.00	0	101	80	120				
Ethylbenzene	19.7	0.400	20.00	0	98.6	80	120				
m,p-Xylene	41.1	1.00	40.00	0	103	80	120				
o-Xylene	20.4	0.500	20.00	0	102	80	120				
1,2,4-Trimethylbenzene	21.1	0.500	20.00	0	106	80	120				
Naphthalene	21.0	1.25	20.00	0	105	80	120				
Surr: Dibromofluoromethane	24.4		25.00		97.7	80	120				
Surr: Toluene-d8	23.2		25.00		92.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		101	80	120				

Sample ID: **MB-37251** SampType: **MBLK** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **MBLKW** Batch ID: **37251** Analysis Date: **7/27/2022** SeqNo: **1584473**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
(MEK) 2-Butanone	ND	1.50									

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **MB-37251** SampType: **MBLK** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **MBLKW** Batch ID: **37251** Analysis Date: **7/27/2022** SeqNo: **1584473**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	23.7		25.00		94.8	80	120				
Surr: Toluene-d8	22.8		25.00		91.1	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.3		25.00		93.3	80	120				

Sample ID: **2207263-006ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **R2-IW9-12-071822** Batch ID: **37251** Analysis Date: **7/27/2022** SeqNo: **1584451**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
Acetone	ND	6.00						0		30	
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	1.68	0.500						1.717	2.11	30	
(MEK) 2-Butanone	ND	1.50						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	0.546	0.500						0.5667	3.73	30	
Toluene	ND	0.750						0		30	
Tetrachloroethene (PCE)	ND	0.400						0		30	
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	
o-Xylene	ND	0.500						0		30	

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2207263-006ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **R2-IW9-12-071822** Batch ID: **37251** Analysis Date: **7/27/2022** SeqNo: **1584451**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trimethylbenzene	ND	0.500						0		30	
Naphthalene	ND	1.25						0		30	
Surr: Dibromofluoromethane	24.1		25.00		96.3	80	120		0		
Surr: Toluene-d8	22.7		25.00		90.8	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	23.7		25.00		95.0	80	120		0		

Sample ID: **MB-37254** SampType: **MBLK** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **MBLKW** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583877**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
(MEK) 2-Butanone	ND	1.50									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	23.8		25.00		95.2	80	120				
Surr: Toluene-d8	23.9		25.00		95.7	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.7		25.00		90.7	80	120				

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2207263-015AMS** SampType: **MS** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **B-22-071822** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583872**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	30.5	0.200	20.00	4.937	128	52.3	147				
1,1-Dichloroethene	25.4	0.500	20.00	0.2896	126	76.5	136				
Acetone	59.4	6.00	50.00	0	119	56.1	148				
trans-1,2-Dichloroethene	26.6	0.500	20.00	0.6632	130	79.1	131				
1,1-Dichloroethane	25.3	0.500	20.00	0	127	74.3	138				
cis-1,2-Dichloroethene	97.7	0.500	20.00	84.68	64.8	78.3	131				S
(MEK) 2-Butanone	50.1	1.50	50.00	0	100	61.5	139				
Benzene	25.7	0.440	20.00	0	129	78.5	133				
Trichloroethene (TCE)	43.7	0.500	20.00	19.08	123	75	133				
Toluene	24.9	0.750	20.00	0	124	77	133				
Tetrachloroethene (PCE)	93.2	0.400	20.00	92.49	3.45	78	131				S
Ethylbenzene	24.4	0.400	20.00	0	122	77.9	133				
m,p-Xylene	48.4	1.00	40.00	0	121	74.8	133				
o-Xylene	24.0	0.500	20.00	0	120	81.2	126				
Naphthalene	21.3	1.25	20.00	0	107	51.6	149				
Surr: Dibromofluoromethane	26.7		25.00		107	80	120				
Surr: Toluene-d8	25.9		25.00		104	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		100	80	120				

NOTES:
S - Spiked amount was low relative to sample concentration. Outlying spike recoveries may be expected.

Sample ID: **LCS-37254** SampType: **LCS** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **LCSW** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583874**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	21.2	0.200	20.00	0	106	80	120				
1,1-Dichloroethene	20.9	0.500	20.00	0	104	80	120				
Acetone	52.4	6.00	50.00	0	105	80	120				
trans-1,2-Dichloroethene	22.1	0.500	20.00	0	111	80	120				
1,1-Dichloroethane	21.6	0.500	20.00	0	108	80	120				
cis-1,2-Dichloroethene	22.3	0.500	20.00	0	112	80	120				
(MEK) 2-Butanone	46.4	1.50	50.00	0	92.9	80	120				

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37254** SampType: **LCS** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **LCSW** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583874**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.3	0.440	20.00	0	111	80	120				
Trichloroethene (TCE)	24.1	0.500	20.00	0	121	80	120				S
Toluene	22.0	0.750	20.00	0	110	80	120				
Tetrachloroethene (PCE)	21.7	0.400	20.00	0	109	80	120				
Ethylbenzene	21.9	0.400	20.00	0	110	80	120				
m,p-Xylene	44.2	1.00	40.00	0	111	80	120				
o-Xylene	22.0	0.500	20.00	0	110	80	120				
1,2,4-Trimethylbenzene	21.0	0.500	20.00	0	105	80	120				
Naphthalene	20.8	1.25	20.00	0	104	80	120				
Surr: Dibromofluoromethane	25.2		25.00		101	80	120				
Surr: Toluene-d8	24.5		25.00		97.9	80	120				
Surr: 1-Bromo-4-fluorobenzene	25.0		25.00		99.9	80	120				

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Sample ID: **LCSD-37254** SampType: **LCSD** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **LCSW02** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583875**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	20.6	0.200	20.00	0	103	80	120	21.24	2.83	20	
1,1-Dichloroethene	21.2	0.500	20.00	0	106	80	120	20.86	1.78	20	
Acetone	47.7	6.00	50.00	0	95.3	80	120	52.41	9.47	20	
trans-1,2-Dichloroethene	22.3	0.500	20.00	0	111	80	120	22.12	0.595	20	
1,1-Dichloroethane	22.0	0.500	20.00	0	110	80	120	21.64	1.73	20	
cis-1,2-Dichloroethene	21.9	0.500	20.00	0	109	80	120	22.31	2.01	20	
(MEK) 2-Butanone	45.1	1.50	50.00	0	90.3	80	120	46.43	2.80	20	
Benzene	22.7	0.440	20.00	0	113	80	120	22.27	1.72	20	
Trichloroethene (TCE)	21.9	0.500	20.00	0	109	80	120	24.11	9.71	20	
Toluene	22.2	0.750	20.00	0	111	80	120	22.00	0.965	20	
Tetrachloroethene (PCE)	22.1	0.400	20.00	0	110	80	120	21.71	1.78	20	
Ethylbenzene	22.4	0.400	20.00	0	112	80	120	21.93	1.93	20	
m,p-Xylene	44.6	1.00	40.00	0	112	80	120	44.24	0.818	20	

Work Order: 2207263
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCSD-37254** SampType: **LCSD** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77118**
Client ID: **LCSW02** Batch ID: **37254** Analysis Date: **7/27/2022** SeqNo: **1583875**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	22.3	0.500	20.00	0	112	80	120	21.99	1.47	20	
1,2,4-Trimethylbenzene	20.9	0.500	20.00	0	105	80	120	21.01	0.449	20	
Naphthalene	21.2	1.25	20.00	0	106	80	120	20.84	1.57	20	
Surr: Dibromofluoromethane	25.2		25.00		101	80	120		0		
Surr: Toluene-d8	24.8		25.00		99.1	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	80	120		0		

Sample ID: **2207263-015AMS** SampType: **MS** Units: **µg/L** Prep Date: **7/26/2022** RunNo: **77134**
Client ID: **B-22-071822** Batch ID: **37251** Analysis Date: **7/27/2022** SeqNo: **1584461**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.3	0.200	20.00	4.937	86.8	52.3	147				
1,1-Dichloroethene	16.5	0.500	20.00	0.2896	80.8	76.5	136				
Acetone	52.3	6.00	50.00	0	105	56.1	148				
trans-1,2-Dichloroethene	21.5	0.500	20.00	0.6632	104	79.1	131				
1,1-Dichloroethane	17.1	0.500	20.00	0	85.3	74.3	138				
cis-1,2-Dichloroethene	101	0.500	20.00	84.68	81.9	78.3	131				
(MEK) 2-Butanone	57.5	1.50	50.00	0	115	61.5	139				
Benzene	19.5	0.440	20.00	0	97.6	78.5	133				
Trichloroethene (TCE)	38.1	0.500	20.00	19.08	95.3	75	133				
Toluene	20.0	0.750	20.00	0	99.8	77	133				
Tetrachloroethene (PCE)	115	0.400	20.00	92.49	110	78	131				
Ethylbenzene	20.8	0.400	20.00	0	104	77.9	133				
m,p-Xylene	42.9	1.00	40.00	0	107	74.8	133				
o-Xylene	21.4	0.500	20.00	0	107	81.2	126				
1,2,4-Trimethylbenzene	21.7	0.500	20.00	0	108	75.3	134				
Naphthalene	23.8	1.25	20.00	0	119	51.6	149				
Surr: Dibromofluoromethane	24.0		25.00		96.1	80	120				
Surr: Toluene-d8	22.6		25.00		90.3	80	120				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.4	80	120				

Sample Log-In Check List

Client Name:	CLBRE	Work Order Number:	2207263
Logged by:	Clare Griggs	Date Received:	7/19/2022 1:06:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No	☐	Not Present ☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No	☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☐	No	☑	NA ☐
	Samples were collected the same day and chilled.					
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☑	NA ☐
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes	☐	No	☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	6.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 7/18/22 Page: 1 of: 3

Laboratory Project No (internal): 2207263

Special Remarks: cc Justin Neste & Rune Lassen

Project Name: Fox Avenue

Project No: Fox Ave

Collected by: JNeste R Lassen

Location: Fox Ave Seattle, WA

Report To (PM): Tom McKeon

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: Tom.McKeon@calibresys.com

Client: CALIBRE

Address: 16935 SE 37th

City, State, Zip: Bellevue, WA 98101

Telephone: 425-241-8449

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	TOC				Comments
1 R2-IW2-17-071822	7/18/22	0920	GW	3	X																17'
2 MW-4-071822		0915		3	X																
3 R2-IW2-45-071822		0947		3	X																45'
4 MW-3-071822		0945		3	X																
5 B-33a-071822		1118		3	X																
6 R2-IW9-12-071822		1037		3	X																12'
7 R2-IW6-45-071822		1129		3	X																45'
8 B-64-071822		1205		3	X																
9 B-35-071822		1220		3	X																
10 B-58-071822		1342		3	X																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day 7 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Rune Lassen	7/19/22 1306	x Lauren Cuneo		7/19/22 13:06
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 7/18/22 + 7/19 | Page: 2 of: 3 | Laboratory Project No (internal): 22072263

Special Remarks: cc Justin Nesse + Rune Lassen

Client: CALIBRE
Address: 16935 SE 39th
City, State, Zip: Bellevue, WA 98101
Telephone: 425 241 8449
Fax:

Project Name: Fox Avenue
Project No: FoxAve
Collected by: RLassen JNesse
Location: Fox Ave Seattle, WA
Report To (PM): Tom McKeon
PM Email: Tom.Mckeon@calibresys.com

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	TOC	Comments
1 B-19-071822	7/18/22	1359	GW	3	X													
2 RI-IW4a-071822		1420		4	X											X		
3 B-20a-071822		1445		3	X													
4 NW1-1-071822		1515		3	X													
5 B-22-071822		1531		3	X													
6 RI-IW9-071822		1600		4	X											X		
7 ~~DO~~ DWP01-071822	↓	0800		3	X													
8 RO-IW2D-071922	7/19/22	0846		3	X													
9 RO-IW3D-071922		0754		4	X											X		
10 RO-IW7D-071922	↓	0903	↓	4	X											X		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day 7 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Rune Lassen	7/19/22 1306	x	Lauren Curea	7/19/22 13:06
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Fremont Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 7/19/22 Page: 3 of: 3

Laboratory Project No (internal): 2207263

Client: CALIBRE

Address: 16935 SE 39th

City, State, Zip: Bellevue, WA 98101

Telephone: 425 241 8449

Fax:

Project Name: Fox Avenue

Project No: Fox Ave

Collected by: R Lassen J Neste

Location: Fox Ave Seattle, WA

Report To (PM): Tom McKeon

PM Email: Tom.Mckeon@calibresys.com

Special Remarks: CC Rune Lassen + Justin Neste

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	TOC				Comments
1	MW-18S-071922	7/19/22	0930	GW	3	X																
2	MW-7-071922	↓	1025	↓	3	X																
3	R1-IW12-071922		1035		4	X												X				
4	MW-9-071922		1100		4	X												X				
5	MW-10-071922		1140		3	X																
6	B-49-071922		1134		3	X																
7	DUP01-071922		0800		3	X																
8	Trip Blank				1	X																
9																						
10																						

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☐ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day 7 Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x [signature]	Rune Lassen	7/19/22	x [signature]	E. Lawrence	7/19/22 13:06
x			x		

Data Validation Summary, Fox Ave Building Site, Sampling in July 2022

Two sample delivery groups (SDGs or Work Orders): **2207181, 2207263**
36 samples to lab (total, including duplicates and trip blanks)
28 wells and three seeps sampled
3 field duplicates (FDs)
List of duplicate/parent FD pair names
a) Dup-01 -07132022/MW-6
b) Dup-01-07182022/B-22
c) Dup-01-07192022/MW-9
2 trip blanks
36 samples for volatile organic compounds (VOCs) by EPA Method 8260D
6 samples for total organic carbon by SM 5310C

All analyses were conducted in accordance with the project Quality Assurance Project Plan. The samples were analyzed in accordance with procedures described in Test Methods for Evaluating Solid Waste, Physical and Chemical Methods (EPA SW-846 3rd Edition). The Washington State certified analytical laboratory, Fremont Analytical (Fremont) is responsible for the initial data review and internal quality control (QC) prior to reporting analytical results; any results that do not meet the laboratory QC acceptance criteria are identified, or the analysis repeated, validated, and, if acceptance criteria are met, reported. The laboratory follows method-specific QC procedures to evaluate performance and compare results with precision and accuracy criteria (from SW-846) as minimum guidelines for data validation.

All analyses were performed consistent with the Quality Assurance Program of Fremont. Freemont reviewed all analytical results against the laboratory QC acceptance criteria and no deficiencies were identified.

List of sample identifiers (IDs) collected:

Work Order: 2207181

Lab Sample ID	Client Sample ID	Date Collected
2207181-001	MW-6-071322	07/13/2022
2207181-002	Dup-01-071322	07/13/2022
2207181-003	R2-IW1-17-071322	07/13/2022
2207181-004	S-2-071322	07/13/2022
2207181-005	S-3-071322	07/13/2022
2207181-006	S-3B-071322	07/13/2022
2207181-007	R2-IW1-45-071322	07/13/2022
2207181-008	Trip Blank	07/08/2022

Work Order: 2207263

Lab Sample ID	Client Sample ID	Date Collected
2207263-001	R2-IW2-17-071822	07/18/2022
2207263-002	MW-4-071822	07/18/2022
2207263-003	R2-IW2-45-071822	07/18/2022
2207263-004	MW-3-071822	07/18/2022

2207263-005	B-33a-071822	07/18/2022
2207263-006	R2-IW9-12-071822	07/18/2022
2207263-007	R2-IW6-45-071822	07/18/2022
2207263-008	B-64-071822	07/18/2022
2207263-009	B-35-071822	07/18/2022
2207263-010	B-58-071822	07/18/2022
2207263-011	B-19-071822	07/18/2022
2207263-012	R1-IW4a-071822	07/18/2022
2207263-013	B-20a-071822	07/18/2022
2207263-014	NW1-1-071822	07/18/2022
2207263-015	B-22-071822	07/18/2022
2207263-016	R1-IW9-071822	07/18/2022
2207263-017	DUP01-071822	07/18/2022
2207263-018	R0-IW2D-071922	07/19/2022
2207263-019	R0-IW3D-071922	07/19/2022
2207263-020	R0-IW7D-071922	07/19/2022
2207263-021	MW-18S-071922	07/19/2022
2207263-022	MW-7-071922	07/19/2022
2207263-023	R1-IW12-071922	07/19/2022
2207263-024	MW-9-071922	07/19/2022
2207263-025	MW-10-071922	07/19/2022
2207263-026	B-49-071922	07/19/2022
2207263-027	DUP01-071922	07/19/2022
2207263-028	Trip Blank	07/19/2022

Data Validation Checklist for **2207181, 2207263**
Fox Ave Building Data Packages from July 2022
Reports Dated 7/21/2022 & 7/29/2022

Reviewed by ____Darren Curtis and Justin Neste_____8/12/2022

Criteria	Notes	Result
COC complete	Check COCs plus other notes	COCs complete (with other email notes/added clarification as necessary)
Holding times	From case narrative & sample log-In check list	Samples collected on 7/13/2022, delivered to lab on 7/13/2022; and samples collected on 7/18/2022 and 7/19/2022, delivered to lab on 7/19/2022. All samples analyzed at the laboratory within method-recommended holding time (14 days) for preserved VOC samples.
Temperature	From case narrative & sample log-In check list	Samples received at >2.0 degrees C to 6 degrees C for Work Order 2207181 (6^{o} C). Samples for Work Order 2207263 were received at 6.9^{o} C. While this is outside the recommended temperature criteria, ice was present and samples did not have

		sufficient time to cool down prior to being received by Lab.
Blanks	From case narrative, review blanks data	All method and trip blank results were free of contamination.
Field duplicate sample analysis	Calculate relative percent difference (RPD) for field duplicates	Three field duplicates collected. RPD targets in the QAPP met for dupes a) and c) noted above. Outliers for field duplicate b) were identified in the initial analysis & all data re-reviewed. From field notes and COC, no errors were found (or plausible). Lab re-reviewed all notes and samples/vial sequence into GC/MS, error found in this DUP sample (with dilution); lab report revised with this correction noted in case narrative. This last FD met RPD goals except with diluted ND analytes.
Calibration	From case narrative, & review calibration data in QC summary	No anomalies listed in the case narrative. One sample (B-49-071922) showed one analyte (TCE) Q flagged Associated calibration verification is above acceptance criteria. Result may be high-biased.
Surrogate recovery	From case narrative, & review surrogate data	Surrogates met criteria.
Matrix spike and matrix spike duplicate recovery	From case narrative, & review MS/MSDs in QC summary	MS/MSDs performed, no outliers noted
Laboratory control sample or blank spike	From case narrative, & review LCS and/or blank spikes in QC summary	LCS/LCSDs performed, no outliers noted
Internal standard performance	From case narrative	Internal standards met criteria.
Overall assessment of data for an SDG	Any reason to reject data or perform full validation?	The data are acceptable for site characterization purposes and remedial performance evaluation, with the data qualifiers as noted.

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Calibre Systems
Tom McKeon
16935 SE 39th St.
Bellevue, WA 98008

RE: Fox Avenue
Work Order Number: 2208333

August 30, 2022

Attention Tom McKeon:

Fremont Analytical, Inc. received 13 sample(s) on 8/23/2022 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Justin Neste
Rune Lassen

Date: *08/30/2022*

CLIENT: Calibre Systems
Project: Fox Avenue
Work Order: 2208333

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208333-001	B-66-082222	08/22/2022 10:38 AM	08/23/2022 8:23 AM
2208333-002	B-54-082222	08/22/2022 10:50 AM	08/23/2022 8:23 AM
2208333-003	DUP01-082222	08/22/2022 8:00 AM	08/23/2022 8:23 AM
2208333-004	MW-16D-082222	08/22/2022 11:38 AM	08/23/2022 8:23 AM
2208333-005	R1-IW3a-082222	08/22/2022 11:55 AM	08/23/2022 8:23 AM
2208333-006	B-60-082222	08/22/2022 12:30 AM	08/23/2022 8:23 AM
2208333-007	B-61-082222	08/22/2022 12:38 AM	08/23/2022 8:23 AM
2208333-008	B-18-082222	08/22/2022 2:15 PM	08/23/2022 8:23 AM
2208333-009	B-62-082222	08/22/2022 3:45 PM	08/23/2022 8:23 AM
2208333-010	B-63-082222	08/22/2022 2:54 PM	08/23/2022 8:23 AM
2208333-011	R2-IW10-37-082222	08/22/2022 3:20 PM	08/23/2022 8:23 AM
2208333-012	MW-5-082222	08/22/2022 4:08 PM	08/23/2022 8:23 AM
2208333-013	Trip Blank	08/19/2022 9:00 AM	08/23/2022 8:23 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

Case Narrative

WO#: **2208333**
Date: **8/30/2022**

CLIENT: Calibre Systems
Project: Fox Avenue

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 10:38:00 AM
Project: Fox Avenue
Lab ID: 2208333-001
Matrix: Groundwater
Client Sample ID: **B-66-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 4:57:45 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 4:57:45 AM
Acetone	24.5	6.00		µg/L	1	8/30/2022 1:31:21 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 4:57:45 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 4:57:45 AM
cis-1,2-Dichloroethene	7.39	0.500		µg/L	1	8/29/2022 4:57:45 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 4:57:45 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 4:57:45 AM
Trichloroethene (TCE)	35.0	0.500		µg/L	1	8/30/2022 1:31:21 PM
Toluene	ND	0.750		µg/L	1	8/29/2022 4:57:45 AM
Tetrachloroethene (PCE)	374	0.400	E	µg/L	1	8/30/2022 1:31:21 PM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 4:57:45 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 4:57:45 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 4:57:45 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 4:57:45 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 4:57:45 AM
Surr: Dibromofluoromethane	110	80 - 120		%Rec	1	8/29/2022 4:57:45 AM
Surr: Toluene-d8	103	80 - 120		%Rec	1	8/29/2022 4:57:45 AM
Surr: 1-Bromo-4-fluorobenzene	91.3	80 - 120		%Rec	1	8/29/2022 4:57:45 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 10:50:00 AM
Project: Fox Avenue
Lab ID: 2208333-002
Matrix: Groundwater
Client Sample ID: **B-54-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 5:27:52 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 5:27:52 AM
Acetone	18.4	6.00		µg/L	1	8/30/2022 12:31:04 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 5:27:52 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 5:27:52 AM
cis-1,2-Dichloroethene	13.5	0.500		µg/L	1	8/29/2022 5:27:52 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 5:27:52 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 5:27:52 AM
Trichloroethene (TCE)	22.0	0.500		µg/L	1	8/30/2022 12:31:04 PM
Toluene	ND	0.750		µg/L	1	8/29/2022 5:27:52 AM
Tetrachloroethene (PCE)	617	0.400	E	µg/L	1	8/30/2022 12:31:04 PM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 5:27:52 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 5:27:52 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 5:27:52 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 5:27:52 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 5:27:52 AM
Surr: Dibromofluoromethane	108	80 - 120		%Rec	1	8/29/2022 5:27:52 AM
Surr: Toluene-d8	99.0	80 - 120		%Rec	1	8/29/2022 5:27:52 AM
Surr: 1-Bromo-4-fluorobenzene	90.2	80 - 120		%Rec	1	8/29/2022 5:27:52 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 8:00:00 AM
Project: Fox Avenue
Lab ID: 2208333-003
Matrix: Groundwater
Client Sample ID: **DUP01-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 5:58:00 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 5:58:00 AM
Acetone	18.7	6.00		µg/L	1	8/30/2022 1:01:13 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 5:58:00 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 5:58:00 AM
cis-1,2-Dichloroethene	14.0	0.500		µg/L	1	8/29/2022 5:58:00 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 5:58:00 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 5:58:00 AM
Trichloroethene (TCE)	21.8	0.500		µg/L	1	8/30/2022 1:01:13 PM
Toluene	ND	0.750		µg/L	1	8/29/2022 5:58:00 AM
Tetrachloroethene (PCE)	602	0.400		µg/L	1	8/30/2022 1:01:13 PM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 5:58:00 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 5:58:00 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 5:58:00 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 5:58:00 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 5:58:00 AM
Surr: Dibromofluoromethane	111	80 - 120		%Rec	1	8/29/2022 5:58:00 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	8/29/2022 5:58:00 AM
Surr: 1-Bromo-4-fluorobenzene	90.8	80 - 120		%Rec	1	8/29/2022 5:58:00 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 11:38:00 AM
Project: Fox Avenue
Lab ID: 2208333-004
Matrix: Groundwater
Client Sample ID: **MW-16D-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/30/2022 6:29:24 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 6:29:24 AM
Acetone	14.8	6.00		µg/L	1	8/30/2022 6:29:24 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 6:29:24 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/30/2022 6:29:24 AM
cis-1,2-Dichloroethene	0.758	0.500		µg/L	1	8/30/2022 6:29:24 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/30/2022 6:29:24 AM
Benzene	ND	0.440		µg/L	1	8/30/2022 6:29:24 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/30/2022 6:29:24 AM
Toluene	ND	0.750		µg/L	1	8/30/2022 6:29:24 AM
Tetrachloroethene (PCE)	0.405	0.400		µg/L	1	8/30/2022 6:29:24 AM
Ethylbenzene	ND	0.400		µg/L	1	8/30/2022 6:29:24 AM
m,p-Xylene	ND	1.00		µg/L	1	8/30/2022 6:29:24 AM
o-Xylene	1.89	0.500		µg/L	1	8/30/2022 6:29:24 AM
1,2,4-Trimethylbenzene	10.7	0.500		µg/L	1	8/30/2022 6:29:24 AM
Naphthalene	1.30	1.25		µg/L	1	8/30/2022 6:29:24 AM
Surr: Dibromofluoromethane	99.2	80 - 120		%Rec	1	8/30/2022 6:29:24 AM
Surr: Toluene-d8	98.6	80 - 120		%Rec	1	8/30/2022 6:29:24 AM
Surr: 1-Bromo-4-fluorobenzene	111	80 - 120		%Rec	1	8/30/2022 6:29:24 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 11:55:00 AM
Project: Fox Avenue
Lab ID: 2208333-005
Matrix: Groundwater
Client Sample ID: **R1-IW3a-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	14.6	0.200		µg/L	1	8/30/2022 7:29:37 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
Acetone	36.6	6.00		µg/L	1	8/30/2022 7:29:37 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
cis-1,2-Dichloroethene	50.7	5.00	D	µg/L	10	8/30/2022 10:30:29 AM
(MEK) 2-Butanone	12.1	1.50		µg/L	1	8/30/2022 7:29:37 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 7:28:26 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 7:28:26 AM
Tetrachloroethene (PCE)	0.618	0.400		µg/L	1	8/30/2022 7:29:37 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 7:28:26 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 7:28:26 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 7:28:26 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 7:28:26 AM
Surr: Dibromofluoromethane	106	80 - 120		%Rec	1	8/29/2022 7:28:26 AM
Surr: Toluene-d8	95.9	80 - 120		%Rec	1	8/29/2022 7:28:26 AM
Surr: 1-Bromo-4-fluorobenzene	90.0	80 - 120		%Rec	1	8/29/2022 7:28:26 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 12:30:00 AM
Project: Fox Avenue
Lab ID: 2208333-006
Matrix: Groundwater
Client Sample ID: **B-60-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	0.480	0.200		µg/L	1	8/30/2022 6:59:30 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 7:58:33 AM
Acetone	ND	6.00		µg/L	1	8/30/2022 6:59:30 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 7:58:33 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 7:58:33 AM
cis-1,2-Dichloroethene	17.7	0.500		µg/L	1	8/29/2022 7:58:33 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 7:58:33 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 7:58:33 AM
Trichloroethene (TCE)	1.35	0.500		µg/L	1	8/30/2022 6:59:30 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 7:58:33 AM
Tetrachloroethene (PCE)	0.857	0.400		µg/L	1	8/30/2022 6:59:30 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 7:58:33 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 7:58:33 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 7:58:33 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 7:58:33 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 7:58:33 AM
Surr: Dibromofluoromethane	108	80 - 120		%Rec	1	8/29/2022 7:58:33 AM
Surr: Toluene-d8	99.5	80 - 120		%Rec	1	8/29/2022 7:58:33 AM
Surr: 1-Bromo-4-fluorobenzene	95.7	80 - 120		%Rec	1	8/29/2022 7:58:33 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Project: Fox Avenue
Lab ID: 2208333-007
Client Sample ID: **B-61-082222**

Collection Date: 8/22/2022 12:38:00 AM
Matrix: Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 8:28:44 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
Acetone	15.2	6.00		µg/L	1	8/30/2022 7:59:45 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 8:28:44 AM
Benzene	0.579	0.440		µg/L	1	8/30/2022 7:59:45 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 8:28:44 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	8/29/2022 8:28:44 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 8:28:44 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 8:28:44 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 8:28:44 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 8:28:44 AM
Surr: Dibromofluoromethane	112	80 - 120		%Rec	1	8/29/2022 8:28:44 AM
Surr: Toluene-d8	102	80 - 120		%Rec	1	8/29/2022 8:28:44 AM
Surr: 1-Bromo-4-fluorobenzene	93.3	80 - 120		%Rec	1	8/29/2022 8:28:44 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 2:15:00 PM
Project: Fox Avenue
Lab ID: 2208333-008
Matrix: Groundwater
Client Sample ID: **B-18-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	73.8	2.00	D	µg/L	10	8/30/2022 11:30:49 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
Acetone	21.0	6.00	Q	µg/L	1	8/29/2022 8:58:51 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
cis-1,2-Dichloroethene	32.0	0.500		µg/L	1	8/29/2022 8:58:51 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 8:58:51 AM
Benzene	1.51	0.440	Q	µg/L	1	8/29/2022 8:58:51 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 8:58:51 AM
Tetrachloroethene (PCE)	0.544	0.400		µg/L	1	8/29/2022 8:58:51 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 8:58:51 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 8:58:51 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 8:58:51 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 8:58:51 AM
Surr: Dibromofluoromethane	110	80 - 120		%Rec	1	8/29/2022 8:58:51 AM
Surr: Toluene-d8	99.3	80 - 120		%Rec	1	8/29/2022 8:58:51 AM
Surr: 1-Bromo-4-fluorobenzene	90.4	80 - 120		%Rec	1	8/29/2022 8:58:51 AM

NOTES:
Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 3:45:00 PM
Project: Fox Avenue
Lab ID: 2208333-009
Matrix: Groundwater
Client Sample ID: **B-62-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 9:28:59 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
Acetone	17.6	6.00		µg/L	1	8/30/2022 8:29:51 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 9:28:59 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 9:28:59 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 9:28:59 AM
Tetrachloroethene (PCE)	1.11	0.400		µg/L	1	8/29/2022 9:28:59 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 9:28:59 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 9:28:59 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 9:28:59 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 9:28:59 AM
Surr: Dibromofluoromethane	110	80 - 120		%Rec	1	8/29/2022 9:28:59 AM
Surr: Toluene-d8	99.9	80 - 120		%Rec	1	8/29/2022 9:28:59 AM
Surr: 1-Bromo-4-fluorobenzene	87.7	80 - 120		%Rec	1	8/29/2022 9:28:59 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 2:54:00 PM
Project: Fox Avenue
Lab ID: 2208333-010
Matrix: Groundwater
Client Sample ID: **B-63-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 12:30:00 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
Acetone	17.2	6.00		µg/L	1	8/30/2022 8:59:57 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 12:30:00 PM
Benzene	0.602	0.440		µg/L	1	8/30/2022 8:59:57 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
Toluene	ND	0.750		µg/L	1	8/29/2022 12:30:00 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	8/29/2022 12:30:00 PM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 12:30:00 PM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 12:30:00 PM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 12:30:00 PM
Naphthalene	ND	1.25		µg/L	1	8/30/2022 8:59:57 AM
Surr: Dibromofluoromethane	110	80 - 120		%Rec	1	8/29/2022 12:30:00 PM
Surr: Toluene-d8	99.2	80 - 120		%Rec	1	8/29/2022 12:30:00 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	80 - 120		%Rec	1	8/29/2022 12:30:00 PM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 3:20:00 PM
Project: Fox Avenue
Lab ID: 2208333-011
Matrix: Groundwater
Client Sample ID: **R2-IW10-37-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	0.505	0.200		µg/L	1	8/30/2022 12:00:56 PM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
Acetone	25.5	6.00		µg/L	1	8/30/2022 12:00:56 PM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
cis-1,2-Dichloroethene	1.66	0.500		µg/L	1	8/30/2022 12:00:56 PM
(MEK) 2-Butanone	2.75	1.50		µg/L	1	8/30/2022 12:00:56 PM
Benzene	ND	0.440		µg/L	1	8/30/2022 12:00:56 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
Toluene	93.4	0.750	E	µg/L	1	8/30/2022 12:00:56 PM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	8/30/2022 12:00:56 PM
Ethylbenzene	ND	0.400		µg/L	1	8/30/2022 12:00:56 PM
m,p-Xylene	ND	1.00		µg/L	1	8/30/2022 12:00:56 PM
o-Xylene	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/30/2022 12:00:56 PM
Naphthalene	ND	1.25		µg/L	1	8/30/2022 12:00:56 PM
Surr: Dibromofluoromethane	102	80 - 120		%Rec	1	8/30/2022 12:00:56 PM
Surr: Toluene-d8	98.0	80 - 120		%Rec	1	8/30/2022 12:00:56 PM
Surr: 1-Bromo-4-fluorobenzene	93.5	80 - 120		%Rec	1	8/30/2022 12:00:56 PM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/22/2022 4:08:00 PM
Project: Fox Avenue
Lab ID: 2208333-012
Matrix: Groundwater
Client Sample ID: **MW-5-082222**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/30/2022 9:30:07 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
Acetone	20.4	6.00		µg/L	1	8/30/2022 9:30:07 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/30/2022 9:30:07 AM
Benzene	ND	0.440		µg/L	1	8/30/2022 9:30:07 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
Toluene	ND	0.750		µg/L	1	8/30/2022 9:30:07 AM
Tetrachloroethene (PCE)	0.413	0.400		µg/L	1	8/30/2022 9:30:07 AM
Ethylbenzene	ND	0.400		µg/L	1	8/30/2022 9:30:07 AM
m,p-Xylene	ND	1.00		µg/L	1	8/30/2022 9:30:07 AM
o-Xylene	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/30/2022 9:30:07 AM
Naphthalene	ND	1.25		µg/L	1	8/30/2022 9:30:07 AM
Surr: Dibromofluoromethane	101	80 - 120		%Rec	1	8/30/2022 9:30:07 AM
Surr: Toluene-d8	96.8	80 - 120		%Rec	1	8/30/2022 9:30:07 AM
Surr: 1-Bromo-4-fluorobenzene	92.0	80 - 120		%Rec	1	8/30/2022 9:30:07 AM

Analytical Report

Work Order: **2208333**
Date Reported: **8/30/2022**

Client: Calibre Systems
Collection Date: 8/19/2022 9:00:00 AM
Project: Fox Avenue
Lab ID: 2208333-013
Matrix: Groundwater
Client Sample ID: **Trip Blank**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260D				Batch ID: 37588		Analyst: MS
Vinyl chloride	ND	0.200		µg/L	1	8/29/2022 3:27:20 AM
1,1-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
Acetone	29.1	6.00	Q	µg/L	1	8/29/2022 3:27:20 AM
trans-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
1,1-Dichloroethane	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
cis-1,2-Dichloroethene	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
(MEK) 2-Butanone	ND	1.50		µg/L	1	8/29/2022 3:27:20 AM
Benzene	ND	0.440		µg/L	1	8/29/2022 3:27:20 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
Toluene	ND	0.750		µg/L	1	8/29/2022 3:27:20 AM
Tetrachloroethene (PCE)	ND	0.400		µg/L	1	8/29/2022 3:27:20 AM
Ethylbenzene	ND	0.400		µg/L	1	8/29/2022 3:27:20 AM
m,p-Xylene	ND	1.00		µg/L	1	8/29/2022 3:27:20 AM
o-Xylene	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
1,2,4-Trimethylbenzene	ND	0.500		µg/L	1	8/29/2022 3:27:20 AM
Naphthalene	ND	1.25		µg/L	1	8/29/2022 3:27:20 AM
Surr: Dibromofluoromethane	109	80 - 120		%Rec	1	8/29/2022 3:27:20 AM
Surr: Toluene-d8	101	80 - 120		%Rec	1	8/29/2022 3:27:20 AM
Surr: 1-Bromo-4-fluorobenzene	90.4	80 - 120		%Rec	1	8/29/2022 3:27:20 AM

NOTES:
Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Work Order: 2208333
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37588** SampType: **LCS** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **LCSW** Batch ID: **37588** Analysis Date: **8/29/2022** SeqNo: **1599486**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	25.8	0.200	20.00	0	129	80	120				S
1,1-Dichloroethene	26.1	0.500	20.00	0	130	80	120				S
Acetone	76.5	6.00	50.00	0	153	80	120				S
trans-1,2-Dichloroethene	23.2	0.500	20.00	0	116	80	120				
1,1-Dichloroethane	24.8	0.500	20.00	0	124	80	120				S
cis-1,2-Dichloroethene	23.9	0.500	20.00	0	120	80	120				
(MEK) 2-Butanone	64.8	1.50	50.00	0	130	80	120				S
Benzene	25.9	0.440	20.00	0	129	80	120				S
Trichloroethene (TCE)	25.6	0.500	20.00	0	128	80	120				S
Toluene	24.6	0.750	20.00	0	123	80	120				S
Tetrachloroethene (PCE)	23.6	0.400	20.00	0	118	80	120				
Ethylbenzene	23.0	0.400	20.00	0	115	80	120				
m,p-Xylene	45.3	1.00	40.00	0	113	80	120				
o-Xylene	22.1	0.500	20.00	0	111	80	120				
1,2,4-Trimethylbenzene	21.0	0.500	20.00	0	105	80	120				
Naphthalene	19.4	1.25	20.00	0	97.2	80	120				
Surr: Dibromofluoromethane	27.5		25.00		110	80	120				
Surr: Toluene-d8	27.0		25.00		108	80	120				
Surr: 1-Bromo-4-fluorobenzene	26.4		25.00		106	80	120				

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a Q.

Sample ID: **MB-37588** SampType: **MBLK** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **MBLKW** Batch ID: **37588** Analysis Date: **8/29/2022** SeqNo: **1599485**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									

Work Order: 2208333
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **MB-37588** SampType: **MBLK** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **MBLKW** Batch ID: **37588** Analysis Date: **8/29/2022** SeqNo: **1599485**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
(MEK) 2-Butanone	ND	1.50									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	27.6		25.00		110	80	120				
Surr: Toluene-d8	25.2		25.00		101	80	120				
Surr: 1-Bromo-4-fluorobenzene	22.6		25.00		90.3	80	120				

Sample ID: **2208333-004ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **MW-16D-082222** Batch ID: **37588** Analysis Date: **8/29/2022** SeqNo: **1599474**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	0.500						0		30	
Acetone	25.6	6.00						17.16	39.6	30	RQ
trans-1,2-Dichloroethene	ND	0.500						0		30	
1,1-Dichloroethane	ND	0.500						0		30	
cis-1,2-Dichloroethene	ND	0.500						0.5303	16.2	30	
(MEK) 2-Butanone	ND	1.50						0		30	
Benzene	ND	0.440						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Toluene	ND	0.750						0		30	
Tetrachloroethene (PCE)	0.851	0.400						3.100	114	30	R
Ethylbenzene	ND	0.400						0		30	
m,p-Xylene	ND	1.00						0		30	

Work Order: 2208333
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **2208333-004ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **MW-16D-082222** Batch ID: **37588** Analysis Date: **8/29/2022** SeqNo: **1599474**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	2.20	0.500						2.297	4.25	30	
1,2,4-Trimethylbenzene	11.7	0.500						11.98	2.52	30	
Naphthalene	1.30	1.25						1.310	0.996	30	
Surr: Dibromofluoromethane	27.6		25.00		111	80	120		0		
Surr: Toluene-d8	25.8		25.00		103	80	120		0		
Surr: 1-Bromo-4-fluorobenzene	25.1		25.00		100	80	120		0		

NOTES:
R - High RPD observed.
Q - Associated calibration verification is above acceptance criteria. Result may be high-biased.

Sample ID: **LCS-37588** SampType: **LCS** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **LCSW** Batch ID: **37588** Analysis Date: **8/30/2022** SeqNo: **1600522**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	17.2	0.200	20.00	0	85.9	80	120				
1,1-Dichloroethene	17.7	0.500	20.00	0	88.6	80	120				
Acetone	52.7	6.00	50.00	0	105	80	120				
trans-1,2-Dichloroethene	17.1	0.500	20.00	0	85.5	80	120				
1,1-Dichloroethane	17.7	0.500	20.00	0	88.7	80	120				
cis-1,2-Dichloroethene	18.5	0.500	20.00	0	92.4	80	120				
(MEK) 2-Butanone	54.6	1.50	50.00	0	109	80	120				
Benzene	17.3	0.440	20.00	0	86.5	80	120				
Trichloroethene (TCE)	17.0	0.500	20.00	0	85.0	80	120				
Toluene	17.0	0.750	20.00	0	84.9	80	120				
Tetrachloroethene (PCE)	17.6	0.400	20.00	0	88.1	80	120				
Ethylbenzene	17.7	0.400	20.00	0	88.7	80	120				
m,p-Xylene	38.2	1.00	40.00	0	95.4	80	120				
o-Xylene	19.7	0.500	20.00	0	98.5	80	120				
1,2,4-Trimethylbenzene	18.3	0.500	20.00	0	91.6	80	120				
Naphthalene	20.1	1.25	20.00	0	100	80	120				
Surr: Dibromofluoromethane	25.1		25.00		100	80	120				
Surr: Toluene-d8	26.0		25.00		104	80	120				

Work Order: 2208333
CLIENT: Calibre Systems
Project: Fox Avenue

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: **LCS-37588** SampType: **LCS** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **LCSW** Batch ID: **37588** Analysis Date: **8/30/2022** SeqNo: **1600522**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	26.9		25.00		108	80	120				

Sample ID: **MB-37588** SampType: **MBLK** Units: **µg/L** Prep Date: **8/26/2022** RunNo: **77856**
Client ID: **MBLKW** Batch ID: **37588** Analysis Date: **8/30/2022** SeqNo: **1600651**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	0.500									
Acetone	ND	6.00									
trans-1,2-Dichloroethene	ND	0.500									
1,1-Dichloroethane	ND	0.500									
cis-1,2-Dichloroethene	ND	0.500									
(MEK) 2-Butanone	ND	1.50									
Benzene	ND	0.440									
Trichloroethene (TCE)	ND	0.500									
Toluene	ND	0.750									
Tetrachloroethene (PCE)	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	1.00									
o-Xylene	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.500									
Naphthalene	ND	1.25									
Surr: Dibromofluoromethane	25.3		25.00		101	80	120				
Surr: Toluene-d8	24.2		25.00		96.6	80	120				
Surr: 1-Bromo-4-fluorobenzene	23.3		25.00		93.0	80	120				

Sample Log-In Check List

Client Name:	**CLBRE**	Work Order Number:	**2208333**
Logged by:	**Elisabeth Samoray**	Date Received:	**8/23/2022 8:23:00 AM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No	☐	Not Present ☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☑	No	☐	Not Present ☐
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☑	No	☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes	☐	No	☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	3.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/22 Page: 1 of: 2

Laboratory Project No (internal): 2208333

Project Name: Fox Ave

Special Remarks: cc Justin Neste, Rune Lassen

Project No:

Client: CALIBRE

Address: 16935 SE 39th St

City, State, Zip: Bellevue, WA 98008

Telephone: 425 241 8449

Fax:

Collected by: RLassen + JNeste

Location: Fox Ave

Report To (PM): Tom McKeon

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: Tom.mckeon@calibresys.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	B-66-082222	8/22/22	1038	GW	3	X												
2	B-54-082222		1050		3	X												
3	DUP01-082222		0800		3	X												
4	MW-16D-082222		1138		3	X												
5	R1-IW3a-082222		1155		3	X												
6	B-60-082222		1230		3	X												
7	B-61-082222		1238		3	X												
8	B-18-082222		1415		3	X												
9	B-62-082222		1545		3	X												
10	B-63-082222		1454		3	X												

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Justin Neste	8/23/22 0611	x Justine Pogue	Justine Pogue	8/23/22 8:23
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8/22/22 Page: 2 of: 2

Laboratory Project No (internal): 2208333

Project Name: Fox Ave

Special Remarks: cc Russ Lassen & Justin Neste

Project No:

Client: CALIBRE

Collected by: J Neste R Lassen

Address: 16935 SE 39th

Location: Fox Ave

City, State, Zip: Bellevue, WA 98008

Report To (PM): Tom McKeon

Telephone: 4252418449

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Fax:

PM Email: Tom.mckeon@calibresys.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	R2-IW10-37-082222	8/22/22	1520	GW	3	X											
2	MW-5-082222	8/22/22	1608	GW	3	X											
3	Trip Blank	8/19/22	0900	AQ	1	X											
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Justin Neste	8/23/22 0611	x Justine Pogue	Justine Pogue	8/23/22 8:23
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Data Validation Summary, Fox Ave Building Site, Sampling in August 2022

1 sample delivery group (SDG or Work Order): 2208333
13 samples to lab (total, including duplicate and trip blank)
11 wells sampled
1 field duplicate
dupe/parent pair names
Dup-01-082222/B-54-082222
1 trip blank

13 samples for volatile organic compounds (VOCs) by EPA Method 8260D

All analyses were conducted in accordance with the project Quality Assurance Project Plan. The samples were analyzed in accordance with procedures described in Test Methods for Evaluating Solid Waste, Physical and Chemical Methods (EPA SW-846 3rd Edition). The certified analytical laboratory, Fremont Analytical, is responsible for the initial data review and internal quality control (QC) prior to reporting analytical results; any results that do not meet the laboratory QC acceptance criteria are identified, or the analysis repeated, validated, and, if acceptance criteria are met, reported. The laboratory follows method-specific QC procedures to evaluate performance and compare results with precision and accuracy criteria (from SW-846) as minimum guidelines for data validation.

All analyses were performed consistent with the Quality Assurance Program of Fremont Analytical, Inc. Freemont reviewed all analytical results against the laboratory QC acceptance criteria and no deficiencies were identified.

List of sample identifiers (IDs) collected:

Work Order: 2208333

Lab Sample ID	Sample ID	Date Collected
2208333-001	B-66-082222	08/22/2022
2208333-002	B-54-082222	08/22/2022
2208333-003	DUP01-082222	08/22/2022
2208333-004	MW-16D-082222	08/22/2022
2208333-005	R1-IW3a-082222	08/22/2022
2208333-006	B-60-082222	08/22/2022
2208333-007	B-61-082222	08/22/2022
2208333-008	B-18-082222	08/22/2022
2208333-009	B-62-082222	08/22/2022
2208333-010	B-63-082222	08/22/2022
2208333-011	R2-IW10-37-082222	08/22/2022
2208333-012	MW-5-082222	08/22/2022
2208333-013	Trip Blank	08/19/2022

Data Validation Checklist for 2208333
Fox Ave Building Data Package
Report Dated 8/22/2022

Reviewed by Darren Curtis 9/2/2022

Criteria	Notes	Result
COC complete	Check COC, plus any other notes	COCs complete (with other emails notes/clarification, as necessary)
Holding times	Check case narrative	Samples collected on 8/22/2022, delivered to lab on 8/23/2022.
Temperature	Check case narrative	Samples received at 3.1 degrees C and were within the range of 2.0 degrees C to 6 degrees C.
Blanks	Check case narrative, review blanks data	Acetone detected in trip blank; acetone is not a site COC therefore no additional action taken. No detections in method blanks
Field duplicate sample analysis	Calculate relative percent difference for all field dupes (FD).	1 FD collected, RPDs met the QAPP goals.
Calibration	Check case narrative, review calibration data.	Acetone detected in trip blank and acetone and benzene detected in B-18 are qualified as Q - Associated calibration verification is above acceptance criteria. Result may be high-biased. No other anomalies listed in the case narrative.
Surrogate recovery	Check case narrative, review surrogate data	Surrogates met criteria.
Matrix spike and matrix spike duplicate recovery	Check case narrative, review MS/MSDs	MS/MSDs performed, no outliers noted
Laboratory control sample or blank spike	Check case narrative, review LCS and or blank spikes	The LCS/LCSD and method blanks are reported. Relevant criteria met
Internal standard performance	Check case narrative	Internal standards met criteria.
Overall assessment of data for this SDG	Any reason to reject data or perform full validation?	The data are acceptable for site characterization purposes and remedial performance evaluation, with the data qualifiers as noted.

Appendix C

Historical Data Tables for Site Monitoring Wells

(Time Series Tables of CVOCs)

Main Source Area

R0-IW02D CVOC Data

R0-IW02D	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
2/25/2014	650		1000		1100		19		69			2,838			
5/14/2014	<1	U	0.77		10.9		<1	U	<0.2	U		11.7	X	X	99.6%
6/20/2014	<1	U	0.664		9.63		<1	U	1.25			11.5	X	X	99.6%
10/22/2014	<1	U	<0.5	U	<1	U	<1	U	0.75			0.75	X	X	100.0%
1/8/2015	<1	U	0.63		13.1		<1	U	7.41			21.1		X	99.3%
5/14/2015	<1	U	1.02		35.4		<1	U	92.8			129		X	95.4%
9/29/2015	<1	U	0.87		64.2		1.01		69.8			136		X	95.2%
5/10/2016	<1	U	0.77		14.2		<1	U	9.84			24.8		X	99.1%
12/12/2016	<1	U	1.38		32.1		<1	U	9.65			43.1		X	98.5%
5/25/2017	<1	U	1.47		37.8		1.53		6.87			47.7		X	98.3%
5/24/2018	<1	U	2.18		47.9		<1	U	<0.2	U		50.1	X	X	98.2%
7/21/2021	<0.4	U	<0.5	U	13.7		<0.5	U	<0.5	U		13.7	X	X	99.5%
7/19/2022	<0.4	U	<0.5	U	18.8		<0.5	U	<0.2	U		18.8	X	X	99.3%

Main Source Area

R0-IW03D CVOC Data

R0-IW03D	PCE (µg/L)	Qualifier	TCE (µg/L)	Qualifier	cis-1,2-DCE (µg/L)	Qualifier	trans-1,2-DCE (µg/L)	Qualifier	VC (µg/L)	Qualifier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
2/25/2014	110		170		84.0		1.4		4.9			370			
6/5/2019	2.5		10		150		<1	U	203.0			365			
6/23/2020	3.7		14		262		<1	U	342.0			622			
7/21/2021	3.4		7.5		203	D	0.98		285	D		500			
7/19/2022	7.11		<0.5	U	277		2.47		279			566			

Main Source Area

MW-16D CVOC Data

MW-16D	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
5/14/2014	<1	U	<0.5	U	4600		82.5		2240			6,923			
10/23/2014	1.42		8.11		1660		33		1080			2,783			59.8%
1/8/2015	1.99		8.51		2460		74.8		4210			6,755			2.4%
5/13/2015	<1	U	<0.5	U	2.57		1.07		75.8			79		X	98.9%
9/28/2015	<1	U	<0.5	U	1.37		<1	U	0.328			2	X	X	100.0%
1/4/2016	<1	U	<0.5	U	<1	U	<1	U	0.57			1	X	X	100.0%
5/10/2016	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0		X	100.0%
12/13/2016	8.39		2.86		6.84		<1	U	<0.2	U		18		X	99.7%
5/24/2017	3.42		<0.5	U	<1	U	<1	U	<0.2	U		3		X	100.0%
5/24/2018	3.76		0.796		6.7		<1	U	11.2			22		X	99.7%
8/22/2022	0.405		<0.5	U	0.758		<0.5	U	<0.2	U		1.2	X	X	100.0%

Main Source Area

R0-IW07D CVOC Data

R0-IW07D	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
2/25/2014	147		116		74.3		4		21.3			363			
7/21/2020	<10	U	44.6	D	599	D	10.2	D	1030			1684			0%
7/21/2021	3.4		11.9		96.3	D	1.6		87.6	D		201		X	88%
7/19/2022	5.78		11.4		98.2		1.72		42.8			160		X	91%

Main Source Area

MW-18S CVOC Data

MW-18S	PCE (µg/L)	Qualifier	TCE (µg/L)	Qualifier	cis-1,2-DCE (µg/L)	Qualifier	trans-1,2-DCE (µg/L)	Qualifier	VC (µg/L)	Qualifier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
5/15/2014	145		50.1		712		6		4.71			917			
10/23/2014	17.7		23.2		1870		10.7		41.4			1,963			0
5/14/2015	1.4		0.74		82.8		1.77		123			210		x	89%
9/28/2015	3.19		1.1		48.5		<1	U	66			119		x	94%
1/4/2016	1.96		<0.5	U	25.3		<1	U	47.7			75.0		x	96%
5/10/2016	4.29		0.81		26.3		<1	U	209			240		x	88%
12/13/2016	3.01		2.82		387		2.51		511			906			54%
5/25/2017	15.6		4.95		261		<1	U	179			461			77%
5/23/2018	37.4		16.9		347		3.3		373			778			60%
6/5/2019	<1	U	<0.5	U	8.28		<1	U	17.6			25.9		x	99%
6/23/2020	<1	U	<0.5	U	5.22		<1	U	6.13			11.4		x	99%
7/21/2021	1.67		<0.5	U	13.6		<0.5	U	8.55			23.8		x	99%
7/19/2022	3.2		0.873		41.6		1.06		52.8			99.5		x	95%

Whitehead

MW-9 CVOC Data

MW-9	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/7/2007	866		224		90.4		<20	U	2.97			1,183			
1/26/2009	3000		680		280		<20	U	20			3,980			0.0%
5/14/2014	11.8		162		1000		<1	U	36.4			1,210			69.6%
5/15/2015	114		35.1		566		<1	U	412			1,127			71.7%
9/30/2015	130		84.1		856		<1	U	160			1,230			69.1%
1/4/2016	54.8	D	37.8	D	835	D	2.29		466	D		1,396			64.9%
5/11/2016	55.5	D	48.5		313	D	1.96		818			1,237			68.9%
12/12/2016	42.5		56.5		467	D	2.08		418			986			75.2%
5/24/2017	17.6		6.47		160	D	1.75		437			623			84.4%
5/23/2018	<1	U	<0.5	U	436		4.18		180			620			84.4%
6/4/2019	<1	U	<0.5	U	1.15		1.11		<0.2	U		2.26	x	x	99.9%
6/23/2020	<1	U	<0.5	U	21.6		1.01		43.0			65.6		x	98.4%
6/29/2021	<0.4	U	<0.5	U	2.26		0.836		11.9			15.0		x	99.6%
7/19/2022	<0.4	U	<0.5	U	19		1.10		45.8			65.9		x	98.3%
7/19/2022	<0.4	U	<0.5	U	19.2		1.58		57	E		77.8		x	98.0%

Whitehead

MW-10 CVOC Data

MW-10	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/7/2007	4.23		5.6		46600				6260			52,870			0.0%
1/26/2009	<20	U	<20	U	17000		170		13000			30,170			42.9%
10/20/2010	<1	U	<1	U	1800				1700			3,500			93.4%
5/14/2014	<1	U	0.5	U	7520		44.8		274			7,839			85.2%
10/22/2014	5.50		2.46		6670		12.5		1630			8,320			84.3%
1/9/2015	5.03		1.21		4190		17.30		1440			5,654			89.3%
5/15/2015	2.89		<0.5	U	1560		1.16		469			2,033			96.2%
5/15/2015	2.73		<0.5	U	1740		1.17		529			2,273			95.7%
9/30/2015	1.33		<0.5	U	126		<1	U	742			869			98.4%
9/30/2015	1.57		<0.5	U	131		<1	U	782			915			98.3%
1/4/2016	1.41		<0.5	U	33.1		<1	U	1170			1,205			97.7%
1/4/2016	1.34		<0.5	U	34		<1	U	1320			1,355			97.4%
5/11/2016	1.13		0.52		29		<1	U	81.2			112		X	99.8%
5/11/2016	1.04		0.6		26.6		<1	U	78.8			107		x	99.8%
12/12/2016	<1	U	0.732		8.74		<1	U	30.1			39.6		x	99.9%
12/12/2016	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0.00	x	x	100%
5/24/2017	<1	U	<0.5	U	3.3		<1	U	5.62			8.92		x	99.983%
5/24/2017	<1	U	<0.5	U	2.62		<1	U	<0.2	U		2.62	x	x	99.995%
5/23/2018	<1	U	<0.5	U	1.6		<1	U	<0.2	U		1.60	x	x	99.997%
5/23/2018	<1	U	<0.5	U	1.6		<1	U	<0.2	U		1.60	x	x	99.997%
7/19/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.000%

Whitehead

B-45 CVOC Data

B-45	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/28/2009	200	U	350		2500		200	U	94			3,344			81.5%
1/28/2009	200	U	190		4400		200	U	460			5,450			69.8%
5/14/2014	<1	U	0.83		998		17.2		1030			2,046			88.7%
10/22/2014	1.55		3.03		7270		66.5		10700			18,041			0.0%
1/9/2015	<1	U	2.26		1870		40		3220			5,132			71.6%
5/13/2015	<1	U	2.05		1660		25.5		2220			3,908			78.3%
9/30/2015	1.38		0.53		49		2.74		164			218		X	98.8%
1/5/2016	1.53		<0.5	U	6.91		<1	U	59.5			68		X	99.6%
5/11/2016	<1	U	<0.5	U	<1	U	<1	U	5.92			6		X	100.0%
12/12/2016	2.15		0.654		1.15		<1	U	45.9			50		X	99.7%
5/24/2017	<1	U	<0.5	U	<1	U	<1	U	0.2			0	X	X	100.0%
5/23/2018	<1	U	<0.5	U	<1	U	<1	U	0.2			0	X	X	100.0%

Whitehead

B-49 CVOC Data

B-49	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
5/14/2014	99		42		484		12.6		5.14			643			
10/23/2014	13		26.1		1170		12.8		17			1,239			0.0%
5/13/2015	11.7		8.32		375		2.39		460			857			30.8%
9/30/2015	17.4		17		132		2.33		35.2			204			83.5%
1/5/2016	59		35.7		55		<1	U	2.38			152		x	87.7%
5/11/2016	13.7		8.78		113		1.11		124			261			79.0%
12/12/2016	121		26.6		24		<1	U	<0.2	U		172		x	86.1%
5/24/2017	4.34		2.94		79		<1	U	39			125		x	89.9%
5/23/2018	1.36		1.83		32		<1	U	49			84.4		x	93.2%
6/4/2019	<1	U	<0.5	U	5		<1	U	7.43			12.4		x	99.0%
6/23/2020	<1	U	0.672		2		<1	U	0.758			3.08	x	x	99.8%
6/29/2021	2.85		0.706		<0.5	U	<0.5	U	0.254			3.81	x	x	99.7%
7/19/2022	5.28		1.34		0.881		<0.5	U	2.23			9.73	x	x	99.2%

Whitehead

MW-7 CVOC Data

MW-7	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/7/2007	160		20		7.62				10.3			198		x	
1/28/2009	300		36.6		15	J	<20	U	16.6			368			
4/11/2014	56		66		500				10			632			0.0%
5/11/2016	64		39.2		74.8		1.11		4.25			183		x	71.0%
5/24/2017	15.5		34.7		115		1.49		4.13			171		x	73.0%
5/23/2018	<1	U	5.05		55.5		<1	U	<0.2	U		60.6	x	x	90.4%
6/4/2019	<1	U	<0.5	U	29.5		<1	U	20.3			49.8		x	92.1%
6/23/2020	<1	U	<0.5	U	39.7	D	<1	U	28.1			67.8		x	89.3%
6/29/2021	<0.4	U	<0.5	U	<0.5	U	<0.5	U	0.49			0.49	x	x	99.9%
7/19/2022	<0.4	U	<0.5	U	0.523		<0.5	U	<0.2	U		0.52	x	x	99.9%

Northwest Corner

NW1-1 CVOC Data

NW1-1	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/20/2010	1,600		60		21		<20	U	<4	U		1,681			
3/30/2011	706		40.7		11.6		<1	U	<0.2	U		758			
5/18/2011	1,190		39.6		22.2		<1	U	<0.2	U		1,252			
11/30/2011	535		33.7		28.1		<1	U	<0.2	U		597			
8/21/2012	509	D	68	D	314	D	2.3		126	D		1,019			
3/11/2013	86.5	D	48.1		243	D	1.96		11.9			391			
7/23/2013	23.9		16.2		128	D	2.1		16.2			186		x	
7/23/2013	19.4		13.9		140	D	1.8		14.1			189		x	
5/15/2014	49.1		34.8		61.2		<1	U	11.6			157		x	
5/4/2016	<1	U	15.6		210		1.3		24.2			251		X	
12/6/2016	<1	U	<0.5	U	116		<1	U	27.2			143		x	
5/25/2017	<1	U	<0.5	U	235		1.1		34.9			271			
5/17/2018	<1	U	<0.5	U	324		<1	U	63.1			387			
6/5/2019	<1	U	<0.5	U	41.2	D	<1	U	22			63		x	
6/23/2020	<1	U	<0.5	U	55.7	D	<1	U	47.1			103		x	
6/29/2021	<0.4	U	<0.5	U	80.3	D	<0.5	U	77.6			158		x	
7/18/2022	<0.4	U	<0.5	U	47.3		<0.5	U	77.1			124		x	

Northwest Corner

B-22 CVOC Data

B-22	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/7/2007	898		58.5		32.8				1.04			990			
1/20/2010	460		330		240		67.0		40			1137			
1/20/2010	440		320		240		67.0		36			1103			
11/30/2011	215		44.3		63.9		3.7		3.4			330			
8/21/2012	149		36.0		20.7		<1	U	<0.2	U		206			
8/21/2012	153		33.9		15.6		<1	U	<0.2	U		203			
5/16/2014	135		33.8		276		3.6		2.8			451			
5/4/2016	62.9		26.4		114		1.5		4.7			209		x	
5/4/2016	59.7		28.9		113		1.5		5.1			208		x	
12/6/2016	47.1		33.9		108		1.8		19			210		x	
5/25/2017	51.5		38		74.4		1.9		9.7			175		x	
5/18/2018	99.7		29.5		60.2		1.2		3.7			194		x	
5/18/2018	56.6		28.6		88.9		1.1		3.5			179		x	
6/5/2019	7.44		8.1		116	D	<1	U	12.5			144		x	
6/23/2020	26.3		101	D	914	D	2.3		45.4	D		1089			
6/29/2021	19.9		9.3		65.6	D	0.6		7.8			103		x	
6/29/2021	20.9		9.4		66.1	D	0.6		8.4			105		x	
7/18/2022	86.2		19.1		79.9		0.663		4.94			191		x	
7/18/2022	91.3		18.2		83.1		<5	U	<2	U		193		x	

Northwest Corner

R1-IW9 CVOC Data

R1-IW9	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
3/31/2011	378		58.2		825		2.12		9.55			1273			
5/18/2011	36		317		539		2.47		1.15			896			
5/18/2011	42		313		516		2.4		1.09			874			
11/30/2011	337		131		974		<1	U	2.38			1444			
8/21/2012	29.1		12.4		2170		15.2		22.6			2249			
7/23/2013	7.6		3.15		65.7		1.28		9.72			87.5		X	
6/29/2021	480		212		57.8		0.663		20.7			771			
7/18/2022	11.4		4.82		778		6.78		26.4			827			

Northwest Corner

R1-IW12 CVOC Data

R1-IW12	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/9/2012	1.52		8.85		356				343.0			344.5			
5/4/2016	<1	U	<0.5	U	23.5		<1	U	10.7			34.2		X	
7/19/2022	<0.4	U	<0.5	U	66.2		<0.5	U	72			138		X	

Northwest Corner

R1-IW15 CVOC Data

R1-IW15	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/11/2012	<1	U	<1	U	3.1		1		13.2			17.3			
10/11/2012	<1	U	<1	U	70		20.8		172			262.8			
7/24/2013	52		72.2		394		9.51		5.02			532.7			
7/24/2013	37.2		50.8		190		4.29		6.61			288.9			
5/4/2016	<1	U	0.5	U	6.61		<1	U	0.49			7.6	X	X	
5/18/2018	<1	U	0.5	U	1.12		<1	U	<0.2	U		1.6	X	X	

Fox Ave

R1-IW3a CVOC Data

R1-IW3a	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/28/2009	1600		190		280		20	U	140			2,230			
10/27/2009	18		13		4200		38		370			4,639			0.0%
11/29/2011	6.4		8.93		7.44		<1	U	0.85			24		X	99.5%
8/20/2012	<1	U	5.98		11.6		<1	U	15.7			33		X	99.3%
8/20/2012	6		17.7		46.6		13.8		3.59			88		X	98.1%
5/29/2013	7.22		52.2		793		47.1		24.4			924		X	80.1%
5/18/2015	<1	U	1.33		<1	U	<1	U	3.8			5		X	99.9%
8/22/2022	0.618		<0.5	U	50.7		<0.5	U	14.6			66		X	98.6%

Fox Ave

R1-IW4B CVOC Data

R1-IW4B	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/26/2009	560		370		660		<20	U	350			1,940			
1/26/2009	360		250		410		<20	U	310			1,330			
1/26/2009	360		220		440		<20	U	530			1,550			
1/26/2009	420		220		580		<20	U	900			2,120			
1/26/2009	360		200		570		<20	U	1100			2,230			0.0%
1/26/2009	66		36		110		<20	U	180			392			82.4%
1/26/2009	370		200		480		<20	U	1000			2,050			8.1%
1/27/2009	250		130		230		<1	U	350			960			57.0%
4/29/2009	5.6		2.9		35		1.4		350			395			82.3%
7/23/2009	<1	U	<1	U	14		2.5		270			287			87.2%
10/27/2009	1.5		<1	U	3.1		<1	U	77			82		X	96.3%
1/14/2010	<1	U	<1	U	2.1		<1	U	98			100		X	95.5%
1/29/2010	3.3		7.5		25		<3	U	62			98		X	95.6%
2/16/2010	32		37		32		<5	U	84			185		X	91.7%
4/14/2010	1.13		2		16		1.3		130			150		X	93.3%
3/31/2011	1.2		1.82		57.4		<1	U	64.9			125		X	94.4%
11/29/2011	1.33		2.97		26.1		<1	U	124			154		X	93.1%
8/20/2012	<1	U	2.18		17.2		<1	U	100			119		X	94.6%
5/29/2013	<1	U	1.03		498		21.4		108			628			71.8%
7/24/2013	<1	U	<1	U	138		1.59		55.1			195		X	91.3%
5/18/2015	<1	U	<0.5	U	1.11		<1	U	19.3			20		X	99.1%
5/5/2016	<1	U	<0.5	U	2.53		<1	U	5.89			8		X	99.6%
5/18/2018	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0	X	X	100.0%

Fox Ave
R1-IW4A CVOC Data

R1-IW4A	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/26/2009	3,100		1,100		1,300		23		290			5,813			
1/26/2009	3,100		1,100		1,300		23		290			5,813			
4/29/2009	250		88		440		11		370			1,159			
4/29/2009	260		89		450		11		400			1,210			
6/23/2009	9.6		1.4		2,500		<1	U	<0.2	U		2,511			
7/23/2009	1,700		380		1,300		35		1,500			4,915			
9/16/2009	2.9		7.3		1,200		11		260			1,481			
10/27/2009	18.0		13		4,200		39		370			4,640			
1/14/2010	<10	U	13		3,600		28		350			3,991			
1/29/2010	140		550		4,300		46		420			5,456			
2/16/2010	1,700		3,600		6,100		52		170			11,622			
2/16/2010	2,000		4,100		6,700		60		190			13,050			0.0%
4/14/2010	7.8	J	14	J	2,500		24		210			2,756			78.9%
3/31/2011	<1	U	<1	U	619		19		907			1,545			88.2%
11/29/2011	<20	U	<20	U	2,600	D	20	D	242	D		2,862			78.1%
8/20/2012	1.6		3.8		1,450	D	16		504	D		1,975			84.9%
5/29/2013	8.8		36		2,030	D	123	D	130	D		2,328			82.2%
5/29/2013	8.8		35.2		1,990	D	116	D	123	D		2,273			82.6%
7/24/2013	<1	U	5.4		1,540	D	23.4		106	D		1,675			87.2%
5/18/2015	<1	U	2		32.4		<1		46.8	D		81		x	99.4%
5/18/2015	<1	U	1.9		32.4		<1		51.9	D		86		x	99.3%
5/5/2016	<1	U	<0.5	U	<1	U	<1		6.9	D		6.9		x	99.9%
5/18/2018	<1	U	1.7		2.0		<1		8.5	D		12.2		x	99.9%
6/4/2019	<1	U	1.9		7.1		<1	U	8.5			17.5		x	99.9%
6/23/2020	1.4		3.6		13.1		<1	U	7.1			25.1		x	99.8%
6/29/2021	<0.4	U	4.3		8.7		<0.5	U	5.3			18.3			99.9%
7/18/2022	<0.4	U	<0.5	U	2.98		<0.5	U	2.66			5.64		x	100.0%

Fox Ave

B-20A CVOC Data

B-20A	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/28/2009	41.8		<20	U	<20	U	<20	U	<4	U		41.8		X	
1/28/2009	42.4		<20	U	<20	U	<20	U	<4	U		42.4		X	
6/20/2014	<1	U	11.5		1280	J	51.2		102	J		1445		X	3.6%
6/20/2014	<1	U	11.7		1270	J	50.2		97.7	J		1430		X	4.6%
5/13/2015	<1	U	5.23		1410		21.2		61.5			1498		X	0.0%
9/29/2015	<1	U	<0.5	U	972		31.4		179			1182			21.1%
1/5/2016	<1	U	<0.5	U	36.5		1.56		32.6			70.7		X	95.3%
5/5/2016	<1	U	<0.5	U	93.5		3.27		71.5			168		X	88.8%
12/16/2016	<1	U	<0.5	U	3.42		<1	U	10.7			14.1		X	99.1%
12/16/2016	<1	U	<0.5	U	3.5		<1	U	12			15.5		X	99.0%
5/26/2017	<1	U	<0.5	U	30.5		1.39		11.7			43.6		X	97.1%
5/18/2018	<1	U	<0.5	U	13.4		<1	U	14.1			27.5		X	98.2%
6/4/2019	<1	U	<0.5	U	2.46		<1	U	4.97			7.4		X	99.5%
6/23/2020	<1	U	<0.5	U	11.4		<1	U	4.74			16.1		X	98.9%
6/29/2021	<0.4	U	<0.5	U	26.6		1.34		8.76			36.7		X	97.5%
7/18/2022	<0.4	U	<0.5	U	35		1.54		4.83			41.4		X	97.2%

Fox Ave

B-19 CVOC Data

B-19	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/3/2007	0.54		10.1		34		<20	U	24.9			69.5		x	
1/21/2010	3.7		<1	U	70		<1	U	19			92.7		x	
1/21/2010	3.2		<1	U	67		<1	U	19			89.2		x	
5/15/2014	<1	U	<0.5	U	656		2.36		241			899			0.0%
5/27/2015	<1	U	<0.5	U	98.2		1.89		44.2			144		x	84.0%
5/27/2015	<1	U	<0.5	U	94.8		1.54		47.9			144		x	84.0%
5/6/2016	<1	U	<0.5	U	38.5		<1	U	22.4			60.9		x	93.2%
5/17/2018	<1	U	<0.5	U	18.9		<1	U	10.3			29.2		x	96.8%
6/4/2019	<1	U	<0.5	U	46.5	D	<1	U	10.9			57.4		x	93.6%
6/23/2020	<1	U	<0.5	U	24.2		<1	U	8.38			32.6		x	96.4%
6/23/2020	<1	U	<0.5	U	23.0		<1	U	8.18			31.2		x	96.5%
6/29/2021	<0.4	U	<0.5	U	11.5		<0.5	U	17.4			28.9		x	96.8%
7/18/2022	<0.4	U	<0.5	U	8.96		<0.5	U	9.64			18.6		x	97.9%

Fox Ave

B-18 CVOC Data

B-18	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/28/2009	150		57.2		220		12	J	3,400			3,839		x	
1/21/2010	24		15		190		8.9		1,200			1,438		x	
5/15/2014	<1	U	1.38		115		5.91		193			315		x	
5/27/2015	<1	U	<0.5	U	32.8		<1	U	136			169			95.6%
5/6/2016	<1	U	<0.5	U	2.82		<1	U	18.8			22		x	99.4%
5/6/2016 dup	<1	U	<0.5	U	2.84		<1	U	19.4			22		x	99.4%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	4.27			4		x	99.9%
8/22/2022	0.5		<0.5	U	32		<0.5	U	73.8			106		x	97.2%

Fox Ave

B-77 CVOC Data

B-77	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
5/16/2014	12.8		2.31		15.5				0.934			32		x	0.0%
5/4/2016	1.15		0.57		<1	U			<0.2	U		2	x	x	94.5%

Fox Ave

B-78 CVOC Data

B-78	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
5/16/2014	<1	U	<0.5	U	10.2				30			40		X	0.0%
5/4/2016	<1	U	<0.5	U	<1	U			<0.2	U		0	X	X	100.0%

Fox Ave

B-58 CVOC Data

B-58	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
08/19/03	4,230		2,820		14,400				238			21,688			0.0%
11/17/04	1,310	J	948	J	10,100				869	J		13,227			39.0%
01/11/05	5,520		1,810		7,510				1100			15,940			26.5%
02/10/05	5,680		2,120		4,650				597			13,047			39.8%
03/08/05	6,940		2,040		5,960				736			15,676			27.7%
08/16/05	3,340		683		3,490				993			8,506			60.8%
12/14/05	11,700		4,780		4,190				500			21,170			2.4%
02/16/06	1,730		341		638				36.4			2,745			87.3%
12/06/06	829		14		<2	U			<2	U		843			96.1%
08/09/07	2,360		<8	U	<8	U			<8	U		2,360			89.1%
01/28/09	190		16		5.8		<1	U	<0.2	U		212		X	99.0%
04/28/09	690		210		120		1.7		23			1,045			95.2%
10/26/09	890		140		60		0.95	J	6.3			1,097			94.9%
01/21/10	670		69		32		<10	U	5.7			777			96.4%
07/30/10	700		100		75		<20	U	<4	U		875			96.0%
10/21/10	430		150		240		2.5		12			835			96.2%
03/30/11	446		152		229		2.0		26.2			855			96.1%
11/29/11	171		58.9		866		15.5		368			1,479			93.2%
08/20/12	34.4		14		146	D	3.1		19.9			217		X	99.0%
05/29/13	14.4		4.38		825	D	61.4	D	181	D		1,086			95.0%
07/22/13	16.1		3.33		316	D	30.8		354	D		720			96.7%
5/15/2014	5.43		3.04		305		2.64		145			461			97.9%
5/13/2015	<1	U	<0.5	U	120		1.2		62			183		X	99.2%
9/29/2015	<1	U	1.77		78.8		1.83		50.2			133		X	99.4%
1/5/2016	<1	U	1.78		221		<1	U	38.4			261			98.8%
5/5/2016	<1	U	2.3		89.8		<1	U	16.8			109		X	99.5%
12/5/2016	<1	U	0.577		203		1.36		44			249		X	98.9%
5/25/2017	<1	U	<0.5	U	114		1.87		52.2			168		X	99.2%
5/25/2017	<1	U	<0.5	U	127		1.73		58.9			188		X	99.1%
5/17/2018	<1	U	<0.5	U	30.6		<1	U	57.8			88		X	99.6%
6/5/2019	12.5		2.66		5.88		<1	U	5.03			26		X	99.9%

Fox Ave

B-58 CVOC Data

B-58	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
6/23/2020	35.9		10.1		15.4		<1	U	1.36			63		X	99.7%
6/29/2021	55.4	D	26.6		82.1	D	<0.5	U	11.2			175		X	99.2%
7/18/2022	59	E	11.8		30.4		<0.5	U	7.62			109		X	99.5%

Fox Ave

B-59 CVOC Data

B-59	PCE (µg/L)	Qualifier	TCE (µg/L)	Qualifier	cis-1,2-DCE (µg/L)	Qualifier	trans-1,2-DCE (µg/L)	Qualifier	VC (µg/L)	Qualifier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/19/2003	6.25		5.13		294				67.4			373			
12/14/2005	40	U	40	U	462				858			1,400			
12/6/2006	9.8		4	U	1,110				1,430			2,554			0.0%
8/9/2007	0.84		1.92		225				179			407			84.1%
1/27/2009	23		6.5		48		1	U	2.5			81			96.8%
4/28/2009	18		22		150		7.7		200			398			84.4%
10/26/2009	14		1.7		3.8		1.1		7.8			28		X	98.9%
1/21/2010	45		2.4		2.8		10	U	1.7			62		X	97.6%
7/30/2010	10	U	20	U	9.8	J	20	U	22			82		X	96.8%
10/21/2010	1.2		0.54	J	16		1	U	8.7			27		X	98.9%
10/21/2010	1.1		0.6	J	27		0.55	J	7.9			37		X	98.5%
3/30/2011	1.4		1.3		7.8		1	U	5.9			17		X	99.3%
11/29/2011	<1	U	<1	U	1.5		1	U	2.1			5		X	99.8%
8/20/2012	<1	U	2		21.2		1.6		58	D		83		X	96.7%
5/29/2013	<1	U	<1	U	2.6		<1	U	12			15		X	99.4%
7/24/2013	<1	U	<1	U	2.25		<1	U	2.97			5		X	99.8%
5/15/2014	<1	U	<0.5	U	<1	U	<1	U	3.29			3		X	99.9%
10/22/2014	<1	U	<0.5	U	<1	U	<1	U	26.8			27		X	99.0%
1/9/2015	<1	U	<0.5	U	<1	U	<1	U	8.01			8		X	99.7%
5/13/2015	<1	U	<0.5	U	<1	U	<1	U	1.06			1		X	100.0%
9/29/2015	<1	U	<0.5	U	<1	U	<1	U	3.29			3		X	99.9%
1/5/2016	<1	U	<0.5	U	<1	U	<1	U	3.57			4		X	99.9%
5/5/2016	<1	U	<0.5	U	<1	U	<1	U	18.6			19		X	99.3%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	9.04			9		X	99.6%

Fox Ave

B-60 CVOC Data

B-60	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/19/2003	515		49.7		26.1				1.81			593			98.4%
12/11/2003	9,100		1,360		2,180				50	U		12,690			66.4%
1/27/2004	20,700		9,680		7,100				250	U		37,730			0.0%
2/26/2004	17,300		2,820		3,150				200	U		23,470			37.8%
3/27/2004	10,400		1,880		2,200				100	U		14,580			61.4%
4/26/2004	8,970		1,190		1,700				200	U		12,060			68.0%
1/11/2005	6,160		381		8,030				19,400			33,971			10.0%
2/10/2005	3,050		1,550		8,080	J			9,660	J		22,340			40.8%
3/8/2005	1,190		2,350		6,590				4,350			14,480			61.6%
8/16/2005	91.2		0.8		83.6				847			1,023			97.3%
12/13/2005	252		202		717				1,310			2,481			93.4%
2/16/2006	512		3,390		4,160				1,870			9,932			73.7%
7/13/2006	170		<0.2	U	191				1,740			2,101			94.4%
12/6/2006	254		38.8		345				2,670			3,308			91.2%
8/6/2007	63.3	J	<0.2	UJ	37	J			865	JB		965			97.4%
1/27/2009	60	U	1.7		1		1		4			68		X	99.8%
4/28/2009	39		1.5		5.4	U	<1	U	<0.2	U		46		X	99.9%
10/26/2009	92		2.6		2.4		<1	U	1.4			98		X	99.7%
1/14/2010	17		1		12		1		12			43		X	99.9%
2/16/2010	42		23		17		5		3.8			91		X	99.8%
4/14/2010	25		1.3		7.8		<1	U	15			49		X	99.9%
4/14/2010	28		1.3		9.7		1		15			55		X	99.9%
5/13/2015	2.11		22.6		648		8.33		47.6			729			98.1%
9/30/2015	1		12.7		463		7.62		134			618			98.4%
1/5/2016	1		1.51		367		9.92		246			625			98.3%
5/5/2016	<1	U	<0.5		104		<2.89	U	78.2			182		X	99.5%
12/5/2016	<1	U	<0.5		<1	U	<1	U	7.8			8		X	100.0%
8/22/2022	0.857		1.35		17.7		<0.5	U	0.48			20	x	x	99.9%

Fox Ave

B-61 CVOC Data

B-61	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
19-Aug-03	1	U	942		14,900				1,630			17,473			
11-Dec-03	200	U	460		9,580				1,110			11,350			
27-Jan-04	400	U	972		11,900				1,440			14,712			
26-Feb-04	250	U	1,700		15,800				1,960			19,710			
27-Mar-04	200	U	1,110		9,310				538			11,158			
26-Apr-04	200	U	982		9,740				742			11,664			
28-May-04	460		8.13		1,340				1.75			1,810			
11-Jan-05	347		2,130		8,140				100	U		10,717			
10-Feb-05	414		1,520		8,660				200	U		10,794			
8-Mar-05	248		1,720		7,420				200	U		9,588			
13-Dec-05	200	U	796		5,830				200	U		7,026			
6-Dec-06	14.4		1,170		3,630				8	U		4,822			
9-Aug-07	8	U	1,900		3,210				8.4	JB		5,126			
27-Jan-09	76		450		870		11		1	U		1,408			
28-Apr-09	1	U	1.4		1,700		36		1,200			2,938			
28-Apr-09	1	U	1.1		1,600		28		1,800			3,430			
23-Jun-09	5.7		13		100		1	U	5.2			125			
23-Jul-09	1	U	1.1		1,700		38		1,600			3,340			
16-Sep-09	1.7		1	U	1,300		15		1,300			2,618		X	86.7%
26-Oct-09	1	U	1	U	1,100		14		1,200			2,316		X	88.2%
14-Jan-10	10	U	10	U	2,300		29		3,900			6,249		X	68.3%
16-Feb-10	14		16		2,600		24		2,100			4,754		X	75.9%
14-Apr-10	20	U	20	U	1,300		16	J	950			2,306		X	88.3%
30-Jul-10	10	U	10	U	2,200		29		2,600			4,849		X	75.4%
21-Oct-10	0.82	J	1	U	350		5.4		710			1,067		X	94.6%
30-Mar-11	<1	U	1.5		848		12.8		633			1,495			92.4%
30-Mar-11	<1	U	1.4		861		30.1		632			1,524			92.3%
29-Nov-11	<1	U	1.6		1,260		11.6		1,220			2,493			87.4%
20-Aug-12	<1	U	<1	U	2.2		<1	U	9.3			12		X	99.9%
20-Aug-12	<1	U	<1	U	2.7		<1	U	10.6			13		X	99.9%

Fox Ave

B-61 CVOC Data

B-61	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
29-May-13	<1	U	<1	U	19.8		<1	U	172	D		192		X	99.0%
22-Jul-13	<1	U	<1	U	4.24		<1	U	151	D		155		X	99.2%
10/22/2014	<1	U	<0.5	U	9.64		<1	U	2.77			12		X	99.9%
1/9/2015	<1	U	<0.5	U	6.92		<1	U	1.69			9		X	100.0%
5/13/2015	<1	U	<0.5	U	165		<1	U	637			802			95.9%
9/30/2015	<1	U	0.82		463		<1	U	1100			1,564			92.1%
1/5/2016	<1	U	1.45		644		<1	U	3230			3,875			80.3%
5/5/2016	<1	U	<0.5	U	28.6		<1	U	169			198		X	99.0%
5/5/2016	<1	U	<0.5	U	21.1		<1	U	84			105		X	99.5%
12/5/2016	<1	U	0.561		4.16		<1	U	35.8			41		X	99.8%
5/25/2017	<1	U	<0.5	U	2.98		<1	U	25.5			28		X	99.9%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0	X	X	100.0%
8/22/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		0	X	X	

Fox Ave

B-62 CVOC Data

B-62	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/21/2010	130		39		33		10	U	49			261			0.0%
5/15/2014	1.52		1.13		5.93		<1	U	<0.2	U		8.58	X	X	96.7%
5/6/2016	<1	U	0.5	U	<1	U	<1	U	<0.2	U		0.5	X	X	99.8%
8/22/2022	1.11		<0.5	U	<0.5	U	<0.5	U	<0.2	U		1.11	X	X	99.6%

Fox Ave

B-63 CVOC Data

B-63	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/21/2010	<10	U	<10	U	10,000	J	150		10,000	J		20,150			
5/15/2014	<1	U	<0.5	U	4.18		<1	U	65.3			69		x	99.7%
5/6/2016	<1	U	<0.5	U	<1	U	<1	U	1.41			1.41	x	x	99.99%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	1.54			1.54	x	x	99.99%
8/22/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		0.00	x	x	100.00%

Seattle Boiler Works

MW-3 CVOC Data

MW-3	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/2/2007	1440		280		306				76.7			2,103			0.0%
10/28/2009	270		52		42		<10	U	12			376			82.1%
1/15/2010	190		55		37		<10	U	16			298			85.8%
4/15/2010	140		39		31		<1	U	25.96			236		x	88.8%
12/13/2012	40.7		17.1		63.3		1.08		37.5			160		x	92.4%
5/27/2015	<1	U	2.35		89.6		<1	U	100			192		x	90.9%
11/16/2015	<1	U	<0.5	U	44.2		<1	U	33.8			78.0		x	96.3%
11/16/2015	<1	U	<0.5	U	45.3		<1	U	36.5			81.8		x	96.1%
5/10/2016	<1	U	<0.5	U	5.2		<1	U	6.16			11.4		x	99.5%
7/18/2022	1.77		1.31		1.31		<0.5	U	<0.2	U		4.39	x	x	99.8%

Seattle Boiler Works

MW-4 CVOC Data

MW-4	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/2/2007	3.9		1.75		5980				3420			9,406			0.0%
10/28/2009	12		<10	U	3600		38		2500			6,150			34.6%
1/15/2010	7		15		3900		24		3900			7,846			16.6%
4/23/2010	4.4		<20	U	4000		18		3200			7,222			23.2%
4/23/2010	4.2		<20	U	3900		17		3100			7,021			25.4%
12/13/2012	<1	U	<1	U	<1	U	<1	U	4.44			4.44		x	100.0%
12/13/2012	<1	U	<1	U	1.52		<1	U	5.25			6.77		x	99.9%
5/27/2015	<1	U	<0.5	U	<1	U	<1	U	0.9			0.90	x	x	100.0%
11/16/2015	<1	U	<0.5	U	<1	U	<1	U	14.9			14.9		x	99.8%
5/10/2016	<1	U	<0.5	U	<1	U	<1	U	122			122		x	98.7%
12/5/2016	<1	U	<0.5	U	<1	U	<1	U	0.70			0.70	x	x	99.99%
7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.0%

Seattle Boiler Works

R2-IW9 CVOC Data

R2-IW9	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
2/20/2013	<1	U	<1	U	407		3.26		1050			1460			0.0%
5/10/2016	<1	U	<0.5	U	11.9		1.01		41.9			54.81		X	96.2%
7/18/2022	<0.4	U	0.567		1.72		<0.5	U	<0.2	U		2.29	X	X	99.8%

Seattle Boiler Works
R2-IW10 CVOC Data

R2-IW10	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
R2-IW10-12															
2/20/2013	15.9		7.07		690		7.82		2040			2,761			14.1%
2/20/2013	17.2		7.7		732		7.76		2030			2,795			13.0%
5/10/2016	<1	U	<0.5	U	3.28		<1	U	1.48			5	x	x	99.9%
5/10/2016	<1	U	<0.5	U	3.98		<1	U	1.9			6	x	x	99.8%
R2-IW10-37															
2/20/2013	<1	U	<1	U	795		8.96		2410			3,214			
8/22/2022	<0.4	U	<0.5	U	1.66		<0.5	U	0.51			2	x	x	99.9%
R2-IW10-60															
2/20/2013	<1	U	<1	U	1290		14.4		3520			4,824			
10/12/2017	<1	U	<0.5	U	1.44		<1	U	<0.2	U		1	x	x	100.0%

Seattle Boiler Works
R2-IW11 CVOC Data

R2-IW11	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
R2-IW11-12															
2/20/2013	53.2		69		214		41.3		24			402			
5/26/2016	<1	U	<0.5	U	8.46		<1	U	13.9			22		x	
R2-IW11-37															
2/20/2013	14.2		18.8		49		11.4		11.9			105		x	
R2-IW11-60															
2/20/2013	<1	U	<1	U	1.52		<1	U	0.48			2	x	x	

Seattle Boiler Works

R2-IW2 CVOC Data

R2-IW2-17	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/28/2009	260		150		1900		47		170			2527			0.0%
6/28/2010	20		52		740		99		230			1141			54.8%
12/13/2012	<1	U	<1	U	6.34		<1	U	25.3			31.6		x	98.7%
5/19/2015	<1	U	<0.5	U	<1	U	<1	U	0.96			1.0	x	x	100.0%
5/9/2016	<1	U	0.89		<1	U	<1	U	8.13			9.0		x	99.6%
7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.0%

Seattle Boiler Works

R2-IW2 CVOC Data

R2-IW2-45	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/28/2009	24		<20	U	7300		47		4500			11871			0.0%
4/23/2010	120		160		3000		65		380			3725			68.6%
6/28/2010	<10	U	52		780		<20	U	1100			1932			83.7%
6/28/2010	18		67		600		<20	U	1000			1685			85.8%
12/13/2012	<1	U	<1	U	5.71		<1	U	31.7			37.4		x	99.7%
5/19/2015	<1	U	<0.5	U	<1	U	<1	U	2.03			2.03	x	x	100.0%
5/9/2016	<1	U	0.89		<1	U	<1	U	7.55			8.44		x	99.9%
7/18/2022	<0.4	U	<0.5	U	3.22		<0.5	U	<0.2	U		3.22	x	x	99.97%

Seattle Boiler Works

R2-IW1 CVOC Data

R2-IW1-17	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/27/2009	280		160		1,900		44		170			2,554			
1/15/2010	35		27		3,000		28		810			3,900			
6/28/2010	<10	U	<20	U	1,200		<20	U	250			1,450			
12/13/2012	<1	U	<1	U	11,100	D	76.5		5,740	D		16,917			0.0%
5/29/2013	<1	U	<1	U	941	D	3.61		2,160	D		3,105			81.6%
5/19/2015	<1	U	<0.5	U	154		<1	U	416			570			96.6%
5/9/2016	<1	U	0.76		138		<1	U	180			319			98.1%
12/5/2016	1.02		1.02		23.4		<1	U	55.2			81		x	99.5%
10/12/2017	<1	U	<0.5	U	11.1		<1	U	15			26		x	99.8%
5/17/2018	<1	U	<0.5	U	87.6		<1	U	149			237		x	98.6%
6/4/2019	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0.00	x	x	100.0%
6/23/2020	<1	U	<0.5	U	4.06		<1	U	9.71			14		x	99.9%
7/21/2021	<0.4	U	<0.5	U	1.32		<0.5	U	<0.2	U		1.32	x	x	99.99%
7/13/2022	<0.4	U	<0.5	U	2.61		<0.5	U	0.811			3.42	x	x	99.98%

Seattle Boiler Works

R2-IW1 CVOC Data

R2-IW1-45	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
10/27/2009	36		<1	U	9,100		57		2,700			11,893			99.3%
1/15/2010	44		28		2,900		28		890			3,890			87.0%
1/15/2010	35		28		3,000		28		940			4,031			91.5%
2/16/2010	4.5	J	6.5		45		<5	U	71			127		x	0.0%
4/22/2010	24		24		1,900		27		280			2,255			80.1%
6/28/2010	<10	U	<20	U	1,100		110		260			1,470			95.4%
12/13/2012	<1	U	<1	U	11,500	D	76		5,800	D		17,376			97.6%
5/29/2013	<1	U	<1	U	1,030	D	17.5		2,410	D		3,458			99.5%
5/19/2015	<1	U	<0.5	U	216		<1	U	582			798			99.8%
5/9/2016	<1	U	0.78		146		<1	U	265			412			98.1%
12/5/2016	1.05		1.08		24.3		<1	U	64.2			91		x	100.0%
10/12/2017	<1	U	<0.5	U	11.5		<1	U	17.7			29		x	100.0%
5/17/2018	<1	U	<0.5	U	102		<1	U	233			335			100.0%
6/4/2019	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		-	x	x	100.0%
6/23/2020	<1	U	<0.5	U	<1	U	<1	U	1.81			1.81	x	x	100.0%
7/21/2021	<0.4	U	<0.5	U	1.47		<0.5	U	<0.2	U		1.47	x	x	100.0%
7/13/2022	<0.4	U	<0.5	U	2.65		<0.5	U	0.864			3.51	x	x	100.0%

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MW-5 CVOC Data

MW-5	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/2/2007	7		3.03		5.65		<1	U	<0.2	U		16		x	
10/27/2009	4.1		<1	U	28		<1	U	100			132		x	0.00%
12/13/2012	<1	U	<1	U	<1	U	<1	U	<0.2	U		0	x	x	100.00%
7/22/2013	8.04		<1	U	2.85		<1	U	<0.2	U		11		x	91.76%
5/10/2016	6.78		1.1		2.44		<1	U	<0.2	U		10		x	92.19%
5/17/2018	3.3		0.583		<1	U	<1	U	<0.2	U		4	x	x	97.06%
8/22/2022	0.413		<0.5	U	<0.5	U	<0.5	U	<0.2	U		0.41	x	x	99.69%

Seattle Boiler Works

MW-6 CVOC Data

MW-6	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/2/2007	332		314		386				1.71			1034			0%
10/27/2009	150		93		120		<1	U	28			391			62%
12/13/2012	22.1		9.8		40.7		1.6		<0.2	U		74.2		x	93%
7/22/2013	140	D	61.9	D	97	D	1.81		<0.2	U		301			71%
5/10/2016	26.1		12.7		65.5		1.85		4.33			110		x	89%
12/5/2016	18.8		9.6		90.7		1.44		1.87			122		x	88%
10/12/2017	22.3		22.1		84.4		1.11		<0.2	U		130		x	87%
5/17/2018	25.9		15.8		36.9		<1	U	<0.2	U		78.6		x	92%
6/4/2019	17		11.5		48	D	<1	U	<0.2	U		76.5		x	93%
6/23/2020	36.6		35.8	D	102	D	1.16		<0.2	U		176		x	83%
7/21/2021	11.7		14.1		70.9	D	0.835		1.74			99.3		x	90%
7/21/2021	11.7		14.0		70.5	D	0.871		1.83			98.9		x	90%
7/13/2022	9.23		8.0		57.6		0.596		0.943			76.4		x	93%
7/13/2022	10.1		8.2		62	E	0.791		1.09			82.1		x	92%

Myrtle Street

B-35 CVOC Data

B-35	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/6/2007	<0.2	U	1.71		8.93				1370			1,381			
1/21/2010	10		<10	U	1200		13		5000			6,223			0.0%
8/17/2012	<1	U	<1	U	96		6.31		1130			1,232			80.2%
8/17/2012	<1	U	<1	U	97.5		5.13		1200			1,303			79.1%
5/9/2016	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		-	x	x	100.0%
5/18/2018	<1	U	<0.5	U	<1	U	<1	U	2.6			2.6	x	x	100.0%
6/4/2019	<1	U	<0.5	U	<1	U	<1	U	0.50			0.5	x	x	100.0%
6/23/2020	<1	U	<0.5	U	<1	U	<1	U	0.23			0.2	x	x	100.0%
6/29/2021	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.0%
7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.0%

Myrtle Street

R2-IW6 CVOC Data

R2-IW6-45	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/26/2009	<20	U	<20	U	1,200		<20	U	4,200			5,400			7.1%
6/23/2009	<1	U	6.3		88		19		5,700			5,813			0.0%
10/29/2009	<10	U	<10	U	260		<10	U	180			440			92.4%
1/15/2010	<20	U	<20	U	120		<20	U	340			460			92.1%
1/15/2010	<10	U	<10	U	120		<10	U	300			420			92.8%
1/29/2010	<3	U	3.2		110		<3	U	520			633			89.1%
2/16/2010	5.6		14		170		<5	U	510			700			88.0%
4/15/2010	<10	U	5.2	J	110		<10	U	240			355			93.9%
4/1/2011	<1	U	3.16		999		<1	U	193			1,195			79.4%
8/17/2012	<1	U	4.73		<1	U	<1	U	21			26		X	99.6%
5/9/2016	<1	U	<0.5	U	1.48		<1	U	2.77			4.25		X	99.9%
7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		0.00	X	X	100.0%

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B-64 CVOC Data

B-64	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/18/2003	254		125		209				<5	U		588			
11/16/2004	154		66.8		130				<4	U		351			
3/7/2005	300		164		401				<10	U		865			
12/12/2005	348		115		868				<10	U		1,331			0.0%
12/6/2006	49.3	J	9.02	J	18.9	J			<1	UJ		77.2		x	94.2%
8/2/2007	143		50.6		78.7				0.22			273			79.5%
1/26/2009	<20	U	48		110		<20	U	20			178		x	86.6%
4/28/2009	94		20		55		<1	U	1.7			171		x	87.2%
10/29/2009	150		29		42		<1	U	7.8			229		x	82.8%
1/14/2010	31		8.3		23		<1	U	12			74.3		x	94.4%
2/16/2010	22		11		39		<5	U	11			83.0		x	93.8%
3/30/2011	35.1		17.7		23.3		<1	U	<0.2	U		76.1		x	94.3%
11/28/2011	12.8		4.31		14.5		<1	U	1.91			33.5		x	97.5%
8/17/2012	42.8	D	22		99.8	D	2.8		<0.2	U		167		x	87.4%
7/22/2013	12.4		3.94		60.6	D	<1	U	6.39			83.3		x	93.7%
5/27/2015	1.11		1.79		178		2.35		47.7			231		x	82.6%
5/9/2016	<1	U	<0.5	U	26.4		<1	U	17.1			43.5		x	96.7%
5/25/2017	<1	U	<0.5	U	11.8		<1	U	5.66			17.5		x	98.7%
5/17/2018	<1	U	<0.5	U	6.5		<1	U	4.82			11.3		x	99.1%
6/4/2019	<1	U	<0.5	U	4.55		<1	U	4.56			9.11		x	99.3%
6/23/2020	<1	U	<0.5	U	2.68		<1	U	1.69			4.37	x	x	99.7%
6/29/2021	<0.4	U	<0.5	U	1.97		<0.5	U	1.49			3.46	x	x	99.7%
7/18/2022	<0.4	U	<0.5	U	1.15		<0.5	U	<0.2	U		1.15	x	x	99.9%

Myrtle Street

B-65 CVOC Data

B-65	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
1/26/2009	<20	U	<20	U	15,000		130		6,500			21,630			
1/29/2009	<200	U	<200	U	23,000		150	J	9,800			32,950			0.0%
4/28/2009	<1	U	<1	U	510		2		260			772			97.7%
10/29/2009	<100	U	<100	U	1,500		<100	U	1,800			3,300			90.0%
1/14/2010	<100	U	<100	U	5,400		<100	U	5,800			11,200			66.0%
2/16/2010	<5	U	5	J	5,400		17		3,600			9,022			72.6%
2/16/2010	<5	U	4	J	5,500		12		3,900			9,416			71.4%
3/30/2011	<1	U	<1	U	2,580		17		2,270			4,867			85.2%
11/28/2011	<1	U	<1	U	2,500		11		2,010			4,521			86.3%
8/17/2012	<1	U	<1	U	220		6		518			744			97.7%
7/22/2013	<1	U	<1	U	21		<1	U	105			126			99.6%
5/27/2015	<1	U	<0.5	U	68		<1	U	347			415		x	98.7%
5/9/2016	<1	U	<0.5	U	<1	U	<1	U	3.4			3		x	99.99%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0	x	x	99.999%

Myrtle Street

B-33A CVOC Data

B-33A	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Below RL	Progress/ as % reduction
Sample Date															
8/18/2003	6.56		1	U	4,500				11,600			16,108			
12/12/2005	<200	U	<200	U	4,080				6,240			10,320			
12/6/2006	<100	UJ	<100	UJ	3,460	J			12,200	J		15,660			
8/2/2007	1.03		0.6		4,040				7,090			11,132			30.9%
1/26/2009	<20	U	<20	U	1,100		1.2	J	1,900			3,001			81.4%
1/29/2009	<200	U	<200	U	2,100		<200	U	5,000			7,100			55.9%
4/28/2009	<1	U	<1	U	2,100		1.9		1,200			3,302			79.5%
6/23/2009	<1	U	<1	U	1,300		<1	U	1,700			3,000			81.4%
6/23/2009	<1	U	<1	U	1,710		<1	U	2,700			4,410			72.6%
7/23/2009	<1	U	<1	U	3,200		3		8,100			11,303			29.8%
10/29/2009	<1	U	<1	U	3,300		<1	U	4,200			7,500			53.4%
1/15/2010	<10	U	<10	U	16		<10	U	27			43		x	99.7%
2/16/2010	<5	U	4.4	J	830		<5	U	1,800			2,634			83.6%
4/15/2010	<20	U	<20	U	1,600		<20	U	5,500			7,100			55.9%
4/15/2010	<20	U	<20	U	1,400		<20	U	4,600			6,000			62.8%
3/30/2011	<1	U	<1	U	168		<1	U	462			630			96.1%
11/28/2011	<1	U	<1	U	19		<1	U	113			132		x	99.2%
8/17/2012	<1	U	<1	U	3.3		<1	U	8.2			11		x	99.9%
7/22/2013	<1	U	<1	U	<1	U	<1	U	2.28			2.28	x	x	100.0%
7/22/2013	<1	U	<1	U	<1	U	<1	U	2.18			2.18	x	x	100.0%
5/27/2015	<1	U	<0.5	U	<1	U	<1	U	0.66			0.66	x	x	100.0%
5/9/2016	<1	U	<0.5	U	<1	U	<1	U	12.5			12.5		x	99.9%
12/5/2016	<1	U	<0.5	U	<1	U	<1	U	15.4			15.4		x	99.9%
5/25/2017	<1	U	<0.5	U	<1	U	<1	U	2.09			2.09	x	x	100.0%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	5.13			5.13		x	100.0%
6/4/2019	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		-	x	x	100.0%
6/23/2020	<1	U	<0.5	U	<1	U	<1	U	1.92			1.92	x	x	100.0%
6/29/2021	<0.4	U	<0.5	U	0.67		<0.5	U	1.59			2.26	x	x	100.0%
7/18/2022	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		-	x	x	100.0%

Embayment Seeps

SP-2 CVOC Data

SP-2	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Progress/ as % reduction
Sample Date														
	<1	U	<1	U	9.4		<1	U	20.1			29.5		
7/23/2013	<1	U	<1	U	<1	U	<1	U	<0.2	U		0.00	X	100.0%
5/16/2014	<1	U	<0.5	U	1.6		<1	U	<0.2	U		1.60	X	95.4%
5/18/2015	<1	U	<0.5	U	4.00		<1	U	30.9			34.9		0.0%
5/9/2016	<1	U	<0.5	U	1.57		<1	U	7.39			8.96		74.3%
5/26/2017	<1	U	<0.5	U	1.14		<1	U	4.35			5.49	x	84.3%
5/17/2018	<1	U	<0.5	U	<1	U	<1	U	<0.2	U		0.00	x	100.0%
7/13/2022	<0.4	U	<0.5	U	0.581		<0.5	U	<0.2	U		0.58	x	98.3%

Embayment Seeps

SP-03 CVOC Data

SP-03	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Progress/ as % reduction
Sample Date														
6/23/2009	<1	U	<1	U	1800		7		1400			3207		0.0%
10/17/2012	2.68		1.53		190	D	2.34		367	D		564		82.4%
7/23/2013	<1	U	<1	U	19.6		<1	U	52.5			72.1		97.8%
5/16/2014	<1	U	0.805		73.6	E	<1	U	372	D		446		86.1%
5/18/2015	<1	U	0.67		9.64		<1	U	7.49			17.8		99.4%
5/9/2016	<1	U	0.67		8.03		<1	U	27.1			35.8		98.9%
5/26/2017	<1	U	<0.5	U	10.6		<1	U	13.3			23.9		99.3%
5/17/2018	<1	U	0.717		9.62		<1	U	11.7			22.0		99.3%
6/4/2019	<1	U	<0.5	U	2.46		<1	U	2.88			5.34		99.8%
6/23/2020	<1	U	<0.5	U	1.65		<1	U	1.3			2.95	x	99.9%
7/21/2021	<0.4	U	<0.5	U	2.01		<0.5	U	0.415			2.43	x	99.9%
7/13/2022	<0.4	U	<0.5	U	2.27		<0.5	U	<0.2	U		2.27	x	99.9%

Embayment Seeps

SP-03B CVOC Data

SP-03B	PCE (µg/L)	Quali-fier	TCE (µg/L)	Quali-fier	cis-1,2-DCE (µg/L)	Quali-fier	trans-1,2-DCE (µg/L)	Quali-fier	VC (µg/L)	Quali-fier		CVOCs sum (µg/L)	Below CULs	Progress/ as % reduction
Sample Date														
5/16/2014	16.7		7.6		290	D	29.5		136	D		480		0.0%
5/18/2015	9.67		6.74		279	D	17.4		72.8	D		386		19.6%
5/9/2016	<1	U	<0.5	U	104	D	11.7		46.4	D		162		66.2%
5/26/2017	<1	U	<0.5	U	31.8		1.76		0.85			34	X	92.8%
5/17/2018	<1	U	1.10		69.5	D	1.46		39.8	D		112		76.7%
6/4/2019	<1	U	<0.5	U	5.96		<1	U	3.89			10		97.9%
6/23/2020	<1	U	0.81		10.4		<1	U	2.30			14	X	97.2%
7/21/2021	<0.4	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U		0.00	x	100.0%
7/13/2022	<0.4	U	<0.5	U	0.542		<0.5	U	<0.2	U		0.54	x	99.9%