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Groundwater Monitoring Report

Former Eastside Disposal Property – Former Storage Building Site
969 118th Avenue Southeast
Bellevue, WA 98005

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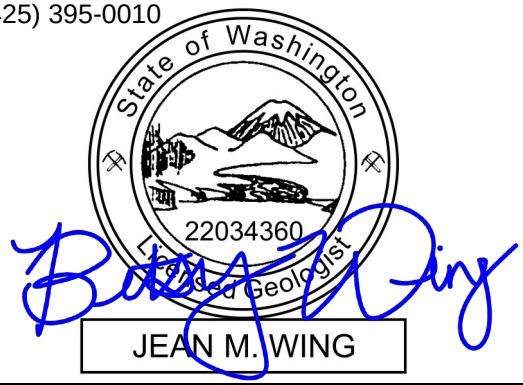

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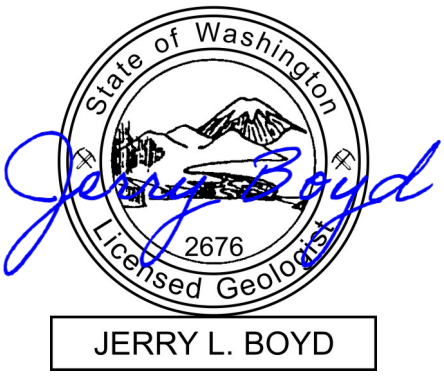

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TRC Project Number: 471241.0001

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ABBREVIATIONS AND ACRONYMS

Abbreviation/ Acronym	Definition
AMSL	Above mean sea level
bgs	Below ground surface
CAR	Cleanup Action Report
COC	Contaminant of concern
CUL	Cleanup level
DO	Dissolved oxygen
DRO	Diesel-range organics
Ecology	Washington State Department of Ecology
GRO	Gasoline-range organics
IDW	Investigation-derived waste
MTCA	Model Toxics Control Act
NWTPH-Dx	Northwest Total Petroleum Hydrocarbons as Diesel
ORO	Oil-range organics
ORP	Oxidation-reduction potential
OWS	Oil/water separator
RAR	Remedial Action Report
SGC	Silica gel cleanup
TRC	TRC Environmental Corporation
UST	Underground storage tank

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) is pleased to present this *Groundwater Monitoring Report* for the former Eastside Disposal Property located at 969 118th Avenue SE in Bellevue, Washington (subject property). The location of the subject property is indicated on Figure 1.

TRC understands that the subject property is currently being redeveloped as a multi-tenant residential building. Within the boundary of the subject property are two separate Washington State Model Toxics Control Act (MTCA) Sites:

- Former Storage Building Site (Site ID 7835)
- Former Main Building Site (Site ID 7836)

The Former Storage Building Site (hereinafter the "Site") is the focus of this *Groundwater Monitoring Report.* The Site was formerly developed with a 2,800-square foot storage building constructed in 1965. The building was historically used for equipment and material storage and vehicle maintenance. A 2,000-gallon gasoline underground storage tank (UST) and 500-gallon gasoline UST were formerly located on the north side of the building. A 1,000-gallon diesel fuel UST was formerly located near the southeast corner of the building. All three USTs were removed in 1989 and in 2011, the Former Storage Building was demolished. A representation of the Site is depicted on Figure 2.

Soil at the Site was previously impacted with petroleum hydrocarbons (gasoline-range organics [GRO], diesel-range organics [DRO], and oil-range organics (ORO]) and benzene. Together, these compounds comprise the contaminants of concern (COCs) for the Site. The apparent sources of COCs in soil at the Site were the former USTs, the oil/water separator (OWS), and the concrete washdown pad and drain.

Initial remedial actions were implemented at the Site in August and October 2012. The source areas and surrounding impacted soil were fully removed and transported offsite for disposal during remedial excavations. These actions are documented in the January 14, 2013 *Remedial Action Report, Buss LLC Property, 969 118th Ave SE, Bellevue, Washington* (RAR), prepared by Environmental Partners, Inc. (EPI). Based on a review of the RAR, the Washington State Department of Ecology (Ecology) requested that water quality data be collected hydraulically downgradient of the Site to demonstrate compliance with applicable cleanup levels.

Monitoring wells MW-1, MW-2, and MW-3 were installed downgradient of the Site in 1989 by Hart Crowser. A review of historical documentation indicated these wells were installed following the removal of three USTs from the Site. In addition to these wells, Ecology requested that two new wells (MW-4 and MW-5) be installed to evaluate conditions further south and west and downgradient of the Site. These wells were installed in May 2013.

Remedial actions completed at the Site are documented in the March 11, 2020, *Cleanup Action Report, Former Eastside Disposal Property, 969 118th Avenue SE, Bellevue, WA* (CAR), prepared by TRC.

In consultation with Ecology and after review of the CAR, Ecology requested additional characterization of the shallow groundwater chemical concentrations at the Site, including the following:

- Petroleum hydrocarbons, which originated from historical releases at the Site; and
- Arsenic, which was not released at the Site but was reported at concentrations greater than MTCA Method A Cleanup Levels in groundwater in previous rounds of investigation.

1.1 Objectives

The objectives of this *Groundwater Monitoring Report* are listed below:

- Document the construction of new wells MW-4R and MW-5R;
- Document the groundwater quality at the Site during the four quarterly monitoring events that took place from September 2022 through June 2023; and
- Provide recommendations for next steps.

2.0 SITE DESCRIPTION AND PHYSICAL SETTING

This section provides a description of the Site and its physical setting.

2.1 Site Description

The Site is located in the western portion of the subject property. Impacts to soil and groundwater at the Site are characterized by petroleum hydrocarbons and related contaminants from leaking USTs and an OWS formerly located at the Site. The USTs were formerly located to the north and south of the Site and the OWS was located in the southern portion of the Site.

2.2 Physical Setting

The Site is located at an approximate elevation of 30 feet above mean sea level (AMSL, NADV88 Datum). The topography at the subject property slopes to the west, towards Mercer Slough. The subject property is bounded to the north by commercial buildings, to the east by 118th Avenue SE, to the south by a construction site, and to the west by the riparian zone of the Mercer Slough. The Former Main Building Site (see Section 1.0) is located approximately 260 feet to the east of the Site.

The nearest surface water body is the Mercer Slough, which drains the area between two north-to-south trending ridges located east and west of the Site. The Mercer Slough is located approximately 225 feet west of the Site. The Mercer Slough flows to the south, through the City of Bellevue Mercer Slough Nature Park to Lake Washington.

The Site is currently surfaced with gravel as it is an active construction zone. Near surface soil conditions generally consist of well-graded sand with silt and well graded gravel that were observed to the maximum depth of exploration of 19.5 feet below ground surface (bgs), which corresponds to an approximate elevation of 7.2 to 20.9 feet AMSL. A layer of peat was observed at depths ranging from 8 feet to 13 feet (approximately 13.7 to 32.4 feet AMSL) in previously installed monitoring wells MW-4 and MW-5. These observations are consistent with organic-rich deposits typical proximate to bogs and similar low-energy water bodies (i.e., Mercer Slough).

Peat deposits are characterized not just by their organic matter content but also by their acidic and anaerobic conditions that serve to decrease the decomposition rate of organic matter. These conditions, when inundated with groundwater, increase both the solubility and mobility of some metal species. As a result, elevated concentrations of naturally occurring metals, such as arsenic, are common in these conditions.

3.0 MONITORING WELL INSTALLATION

The following sections describe installation and construction of replacement monitoring wells MW-4R and MW-5R.

3.1 Monitoring Well Installation

In January 2021, TRC conducted a Site Reconnaissance to locate and evaluate the condition of monitoring wells MW-1 through MW-5. Monitoring wells MW-1 through MW-3 were located but MW-4 and MW-5 were not. Based on observations during the Site Reconnaissance as well as historical documentation of their location, it was determined that these wells had been covered with stockpiled material.

On August 23, 2022, TRC oversaw the installation of groundwater monitoring wells MW-4R and MW-5R to replace MW-4 and MW-5. These wells were installed west of and downgradient from the Site using hollow-stem auger (HSA) drilling techniques.

The two wells (MW-4R and MW-5R) were installed to total depths ranging from 16.5 feet to 19.5 feet, which corresponds to elevations 7.2 to 23.9 feet AMSL.

Soil samples were field screened using a photoionization detector (PID) for the presence of elevated volatile compounds and visual/olfactory techniques. Each boring was logged in accordance with the Unified Soil Classification System (USCS; American Society for Testing and Materials [ASTM] D-2487) and TRC's Standard Operating Procedure (SOP) ECR-005 "Visual-Manual Procedure for Soil Description and Identification" dated January 2020. Soil conditions and field screening results are presented on soil boring logs provided in Attachment A.

Investigation-derived waste (IDW) generated from the drilling event included soil cuttings, excess soil cores, and equipment decontamination water. IDW was placed in labeled 55-gallon drums and temporarily stored at the subject property. Upon receipt of analytical results, IDW was characterized for off-property disposal.

3.2 Monitoring Well Construction

Each monitoring well was constructed with 10 feet of 0.010-inch factory slotted screen and appropriate sand filter pack, bentonite well seal, and traffic rated flush mount monuments. The screened intervals ranged from 5 to 15 feet and 8 to 18 feet bgs at MW-4Rand MW-5R, respectively. These depths correspond to approximate elevations of 11.7 to 35.4 and 8.7 to 32.4 feet AMSL. The specific construction details of monitoring wells MW-4R and MW-5R are included in the bore logs, provided in Attachment A. Following installation, each monitoring well was developed to the satisfaction of the on-Site geologist.

3.3 Wellhead Survey

The wellhead elevations of all monitoring wells located on the subject property were surveyed on September 9, 2022, by Pace Engineering. Vertical coordinates were measured at the northernmost point on the top of each well casing to the nearest 0.01 foot, relative NAVD88. Horizontal coordinates of each of the wells were measured relative to the North American Datum of 1983. A copy of the wellhead survey data is presented in Attachment B.

4.0 GROUNDWATER MONITORING AND SAMPLING PROCEDURES

Descriptions of groundwater monitoring and sampling procedures and laboratory analysis are presented in the following sections.

4.1 Depth-to-Water Groundwater Measurements

TRC personnel measured depth to groundwater in monitoring wells MW-1 through MW-5R using a decontaminated electronic water level meter. Depth to water was measured to the nearest 0.01 foot, relative to a surveyed measuring point at the top of each well casing.

In addition to monitoring wells MW-1 through MW-5R[1], TRC measured groundwater elevations in wells MW-6, MW-7, and MW-8. These wells are located on the subject property and are associated with the Former Main Building Site, which is upgradient of the Site. They were installed as part of the implementation of the August 2021 *Data Gaps Investigation Work Plan, Former Eastside Disposal Property, 969 118th Ave SE, Bellevue, WA,* prepared by TRC. Monitoring Wells MW-6 through MW-8

[1] MW-3 was dry during the September 2022 quarterly sampling event and was inaccessible during the remaining quarterly sampling events.

were only used to assess piezometric conditions for the Site. Figure 2 depicts a representation of the Site including the location of all monitoring wells evaluated.

4.2 Groundwater Sampling and Analysis

For each quarterly monitoring event, TRC mobilized to the Site to sample MW-1 through MW-5R monitoring wells using standard low flow sampling techniques. This consists of a peristaltic pump, dedicated tubing, water level meter, water quality meter, and turbidimeter. The wells were purged by starting the pump system at a low-flow rate of approximately 100 milliliters per minute. Purge water was discharged through a flow cell for field parameter measurements and collected in graduated 5-gallon buckets to measure purge volumes.

During purging, discharge water was measured for field parameters including pH, conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Groundwater samples were collected when the discharge parameters had met the purge stabilization criteria. The purge stabilization criteria are based on three successive readings within the following:

- pH: ± 0.1 pH units
- Conductivity: ± 3 percent
- Temperature: ± 0.1°Celsius (C)
- DO: ± 10 percent or sub 0.50 micrograms per liter (µg/L)
- ORP: ± 10 millivolts
- Turbidity: ± 10 percent or sub 5 nephelometric turbidity units (NTU)

The stabilized field parameter measurements were recorded on field data sheets and are summarized in Table 1. Purge water was containerized in 55-gallon steel drums.

Samples were pumped directly from the pump discharge tubing into sample containers provided by the laboratory. Samples were placed in a cooler with ice and transported under standard chain-of-custody procedures to Friedman and Bruya in Seattle, Washington. All groundwater samples were analyzed for the following:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by US Environmental Protection Agency (EPA) Method 8260D

- Gasoline-range organics (GRO) by Northwest Total Petroleum Hydrocarbons as Gasoline Extended (NWTPH-Gx) method

- Diesel-range organics and oil-range organics (DRO/ORO) by Northwest Total Petroleum Hydrocarbons as Diesel Extended (NWTPH-Dx) method with and without the silica gel cleanup (SGC) method

- Arsenic by EPA Method 6020B

4.2.1 Silica Gel Cleanup

As indicated in Section 2.1, the Site is located within 225 feet of the Mercer Slough. Observations of subsurface conditions within the vicinity of the Site indicated the presence of a significant peat layer at depths ranging between approximately 8 and 13 feet, which correspond to an elevation of 13.7 to 32.4 feet AMSL. The NWTPH-Dx method does not distinguish between organics associated with naturally occurring organic matter (polar metabolites) and organics associated with petroleum hydrocarbons (non-polar). In accordance with Ecology's Publication, *Guidance for Remediation of Petroleum Contaminated Sites, Toxics Cleanup Program Publication No. 10-09-057, REVISED June 2016,* silica gel cleanup (SGC) may be used to adsorb those polar metabolites associated with non-petroleum organic matter, such as peat.

Ecology produced *Draft Guidance for Silica Gel Cleanup in Washington State, Toxics Cleanup Program Publication No. 22-09-059* in September 2022 (Ecology 2022b). This document provides additional guidance for use of SGC and was followed during the groundwater assessment at the Site and documented herein.

5.0 FINDINGS

This section describes the findings of the four quarterly groundwater monitoring activities from September 2022 through June 2023.

5.1 Piezometric Conditions

The groundwater elevation data are presented in Table 2. Quarterly piezometric groundwater contours for September 2, 2022, December 15, 2022, March 15, 2023, and June 21, 2023, are included on Figure 3. These data indicated that the groundwater flow direction is predominantly to the west/south-west with an approximate average gradient of 0.0095 foot/foot. Groundwater generally occurred between 22 and 25 feet AMSL on the eastern portion of the property and between 20 and 22 feet on the western side of the subject property, near the slough.

5.2 Groundwater Analytical Results

Analytical results for the sampling events are summarized in Table 3. A summary of the analytical results is depicted on Figure 4. Copies of analytical reports are included in Attachment C. Groundwater analytical results were compared to MTCA Method A Groundwater Cleanup Levels (CULs) established for the Site, as shown in Table 4, below.

Table 4
Established Groundwater CULs

Compound	Groundwater [a] (µg/L)
Benzene	5
Toluene	1,000
Ethylbenzene	700
Total Xylenes	1,000
GRO	800/1,000[b]
DRO/ORO	500
Arsenic	5

Notes:
µg/L Micrograms per liter.
a MTCA Method A Cleanup Levels for Groundwater.
b MTCA Method A Groundwater Cleanup Level is 800 µg/L when benzene is present and 1,000 µg/L when benzene is not detected.

The following is a summary of groundwater results from September 2022 through June 2023:

- BTEX were not detected in any of the samples at a concentration greater than their respective CULs.

- GRO were not detected in any of the samples at concentrations greater than the CUL.

- DRO analyzed by NWTPH-Dx without SGC reported a concentration of 540 µg/L in the sample collected on June 21, 2023. This concentration is greater than the MTCA Method A CUL of 500 µg/L. The same sample as also analyzed by NWTPH-Dx with SGC and the result was less than the CUL.

- ORO analyzed by NWTPH-Dx with SGC were not detected at concentrations exceeding the MTCA Method A CUL of 500 µg/L.

  All DRO and ORO reported concentrations were laboratory flagged with an "X" qualifier. An “X” qualifier indicates the sample results do not match the standard chromatographic pattern for these compounds. Neither DRO nor ORO were detected in any of the samples analyzed by NTWPH-Dx with SGC at concentrations greater than their respective method reporting limits (MRLs). Based on the “X” qualifier in the data and the reduction in concentrations of DRO and ORO following the use of SGC, detections of DRO and ORO in on-Site groundwater are the result of organic matter interference.

- Arsenic was detected at concentrations greater than the MTCA Method A CUL of 5 µg/L in MW-1 and MW-2 in all four quarters sampled. Concentrations ranged from 6.07 µg/L to 12.0 µg/L. Arsenic was also detected at concentrations greater than the MTCA Method A CUL in

MW-5R in the first and fourth quarterly sampling events. Concentrations greater than the CUL ranged from 6.07 µg/L to 12.0 µg/L.

The concentrations greater than the MTCA Method A CUL for arsenic are consistent with naturally occurring background conditions and are not indicative of a release of arsenic at the Site. Elevated concentrations of arsenic have been reported throughout western Washington in soils and groundwater, as documented in the following Ecology publications:

- October 1994. *Natural Background Soil Metals Concentrations in Washington State (publication No. 94-115)*, prepared by Ecology (Ecology 1994); and

- January 2022. *Natural Background Groundwater Arsenic Concentrations in Washington State: Study Results (Publication No. 14-09-044),* prepared by Ecology (Ecology 2022a).

Based on a review of these publications, the calculated 90th percentile background concentrations for arsenic in groundwater in the Puget Sound Lowlands is 8.0 µg/L, with a standard deviation of 4.2 µg/L. The concentrations of arsenic detected at the Site between September 2022 and June 2023 ranged from 1.0 µg/L to 12 µg/L, which is consistent with Ecology's findings for background conditions.

As discussed in Section 2.2, arsenic solubility increases in water with anaerobic (lower dissolved oxygen) and acidic (pH values less than 7.0) conditions. Groundwater samples exhibited low DO (less than 1 milligram per liter [mg/L]) across all four quarter and pH values ranged from 6.23 to 7.68 with an average pH value of 6.8. These conditions are consistent with soil deposits rich in organic matter, such as documented peat layers at the Site[2].

6.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are supported by the findings of the quarterly groundwater monitoring events at the Site:

- The lateral extents of historical impacts to groundwater have been fully characterized.

- Groundwater flow direction at the Site is consistently to the west-southwest with an average gradient of 0.0095 foot/foot.

- GRO, DRO, and ORO were not detected at concentrations greater than the MTCA Method A CULs for four consecutive quarters.

[2] As described in Section 2.2, a layer of peat was observed in depths ranging from 8 to 13 feet bgs in previously installed well, MW-4 and MW-5. Bore logs for MW-1, MW-2 and MW-3 are not available. However, given their proximity to the Mercer Slough, similar conditions are expected in these locations.

- Arsenic concentrations detected are likely representative of naturally occurring background concentrations typical in Western Washington. There is no documented historic source of arsenic at the Site. The observed arsenic concentrations are attributed to the anaerobic (reducing) increased solubility of naturally occurring arsenic in soil (peat) deposits onsite .

Based on the results of the quarterly sampling event, it is TRC's opinion that no additional assessment, characterization, or remedial action is necessary or warranted at the Site.

7.0 LIMITATION

To the extent that preparation of this GWM has required the application of best professional judgment and the employment of scientific principles, certain results of this work have been based on subjective interpretation. TRC makes no warranties, express or implied including and without limitation warranties as to merchantability or fitness for a particular purpose.

This GWM was prepared solely for SRM Development and its affiliates, partners, and advisors, and the contents herein may not be used or relied upon by any other person without the express written consent and authorization of TRC.

8.0 REFERENCES

Washington State Department of Ecology (Ecology). 1994. *Natural Background Soil Metals Concentrations in Washington State. P*ublication No. 94-115*.* October.

———. 2016. *Guidance for Remediation of Petroleum Contaminated Sites, Toxics Cleanup Program.* Publication No. 10-09-057. REVISED June.

———. 2022a. *Natural Background Groundwater Arsenic Concentrations in Washington State: Study Results.* Publication No. 14-09-044. January.

———. 2022b. *Draft Guidance for Silica Gel Cleanup in Washington State, Toxics Cleanup Program.* Publication No. 22-09-059. September.

Tables

Table 1
Groundwater Sampling Field Parameters
Groundwater Monitoring Report
Former Eastside Disposal Property – Former Storage Building Site
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Well Designation	Sample Date	Temp. (°C)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	pH (standard units)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
MW-1	9/2/2022	14.6	0.451	0.22	6.46	99.5	16.2
	12/15/2022	12.3	0.485	0.54	6.60	-38.7	3.4
	3/15/2023	12.9	0.570	0.88	6.83	67.0	1.59
	6/21/2023	13.8	0.485	0.39	7.03	-36.4	1.43
MW-2	9/2/2022	18.1	0.435	0.2	6.23	54.7	15.2
	12/15/2022	12.1	0.408	0.44	6.26	-21.1	4.6
	3/15/2023	11.0	0.470	0.76	6.55	46.8	2.45
	6/21/2023	14.7	0.414	0.40	6.72	-49.5	2.93
MW-3	9/2/2022	Not Sampled					
	12/15/2022	Not Sampled					
	3/15/2023	Not Sampled					
	6/21/2023	Not Sampled					
MW-4R	9/2/2022	18.4	0.499	0.18	7.68	92.9	9.37
	12/15/2022	13.4	0.347	3.48	6.88	86.7	4.7
	3/15/2023	11.1	0.241	7.03	7.28	46.6	3.3
	6/21/2023	15.1	0.432	0.19	6.83	175.9	8.00
MW-5R	9/2/2022	18.7	1.428	0.32	7.67	89.1	38.1
	12/15/2022	9.9	0.967	0.30	6.86	82.9	10.9
	3/15/2023	8.2	0.810	0.30	6.77	14.0	4.7
	6/21/2023	13.9	1.47	0.23	6.50	161.4	13.3
MW-6	9/2/2022	18.6	0.35	0.29	7.12	125.6	13.7
	12/15/2022	13.6	0.365	1.81	6.39	36.4	4.3
	3/15/2023	11.9	0.305	0.85	6.3	52.9	7.08
	6/21/2023	15.1	0.288	0.30	6.24	47.1	4.87
MW-7	9/2/2022	18.3	0.560	0.18	7.82	115.5	11.2
	12/15/2022	12.8	0.438	0.45	6.88	88.1	39.1
	3/15/2023	10.7	0.389	0.63	6.9	54.7	4.3
	6/21/2023	15.0	0.481	0.23	6.98	163.1	20.2
MW-8	9/2/2022	16	0.353	0.36	7.13	103	6.08
	12/15/2022	14.4	0.385	0.49	5.88	-25.6	1.7
	3/15/2023	12.0	0.394	1.14	6.13	71.3	3.96
	6/21/2023	13.4	0.317	0.53	6.27	11.3	1.61

Table 2
Groundwater Piezometric Data
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Well	Date	Depth to Water	Elevation of Top of Casing[a]	Groundwater Elevation
MW-1	9/2/2022	8.03	28.6	20.57
	12/15/2022	7.17	28.6	21.43
	3/15/2023	6.98	28.6	21.62
	6/21/2023	7.25	28.6	21.35
MW-2	9/2/2022	6.3	27.01	20.71
	12/15/2022	5.30	27.01	21.71
	3/15/2023	5.02	27.01	21.99
	6/21/2023	5.42	27.01	21.59
MW-3	9/2/2022	Dry	26.53	NA
	12/15/2022	NM	26.53	NA
	3/15/2023	NM	26.53	NA
	6/21/2023	NM	26.53	NA
MW-4R	9/2/2022	10.41	31.03	20.62
	12/15/2022	9.26	31.03	21.77
	3/15/2023	8.95	31.03	22.08
	6/21/2023	9.59	31.03	21.44
MW-5R	9/2/2022	7.03	27.43	20.40
	12/15/2022	6.70	27.43	20.73
	3/15/2023	6.60	27.43	20.83
	6/21/2023	6.80	27.43	20.63
MW-6	9/2/2022	10.75	31.73	20.98
	12/15/2022	9.55	31.73	22.18
	3/15/2023	9.31	31.73	22.42
	6/21/2023	9.84	31.73	21.89
MW-7	9/2/2022	10.05	31.47	21.42
	12/15/2022	7.04	31.47	24.43
	3/15/2023	7.05	31.47	24.42
	6/21/2023	8.74	31.47	22.73
MW-8	9/2/2022	17.48	39.67	22.19
	12/15/2022	13.41	39.67	26.26
	3/15/2023	13.93	39.67	25.74
	6/21/2023	15.62	39.67	24.05

Notes:

a Wells surveyed by Pace on September 7, 2022 referenced to North American Vertical Datum of 1988 (NAVD88).
NA Not applicable.
NM Not measured.
DRY Well was dry.

Table 3
Groundwater Analytical Resuls
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Sample Location	Sample ID	Sample Date	Petroleum Hydrocarbons					BTEX[d,e]				Total Metals[f]
			GRO[a]	DRO[b]		ORO[b]		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Arsenic
				(with silica gel)[c]	(without silica gel)	(with silica gel)[c]	(without silica gel)					
MW-1	MW-1:GW	9/2/2022	<100	<50	**360 x**	<250	<250	<0.35	<1	<1	<1	**9.02**
	MW-1:GW	12/15/2022	<100	<50	**77 x**	<250	<250	<0.35	<1	<1	<1	**10.4**
	MW-1:GW	3/15/2023	<100	<50	**350 x**	<250	<250	<0.35	<1	<1	<3	**9.55**
	MW-1:GW	6/21/2023	<100	<50	**250 x**	<250	<250	<0.35	<1	<1	<3	**11.9**
MW-2	MW-2:GW	9/2/2022	<100	<50	**270 x**	<250	<250	<0.35	<1	<1	<1	**11.3**
	MW-2:GW	12/15/2022	<100	<50	**440 x**	<250	<250	<0.35	<1	<1	<1	**10.7**
	MW-2:GW	3/15/2023	<100	<50	**360 x**	<250	<250	<0.35	<1	<1	<3	**7.77**
	MW-2:GW	6/21/2023	<100	<50	**200 x**	<250	<250	<0.35	<1	<1	<3	**10.9**
MW-4R	MW-4R:GW	9/2/2022	<100	<50	<50	<250	<250	<0.35	<1	<1	<1	**1.18**
	MW-4R:GW	12/15/2022	<100	<50	**55 x**	<250	<250	<0.35	<1	<1	<1	**1.06**
	MW-4R:GW	3/15/2023	<100	<50	<50	<250	<250	<0.35	<1	<1	<3	<1
	MW-4R:GW DUP-1	3/15/2023	<100	<50	<50	<250	<250	<0.35	<1	<1	<3	<1
	MW-4R:GW	6/21/2023	<100	<50	**61 x**	<250	<250	<0.35	<1	<1	<3	**1.13**
	MW-4R:GW DUP-1	6/21/2023	<100	<50	**56 x**	<250	<250	<0.35	<1	<1	<3	**1.03**
MW-5R	MW-5R:GW	9/2/2022	<100	<50	**170 x**	<250	<250	<0.35	<1	<1	<1	**12.0**
	MW-5R:GW	12/15/2022	<100	<50	**130 x**	<250	<250	<0.35	<1	<1	<1	**3.3**
	MW-5R:GW	3/15/2023	<100	<50	**220 x**	<250	<250	<0.35	<1	<1	<3	**2.61**
	MW-5R:GW	6/21/2023	<100	<50	**540 x**	<250	**430 x**	<0.35	<1	<1	<3	**6.07**
MTCA Method A Cleanup Levels for Groundwater[g]			**800/1,000[h]**	**500**		**500**		**5**	**1,000**	**700**	**1,000**	**5**

Notes:

All results presented in micrograms per liter (µg/L).

Bold	Bold result exceeds laboratory reporting limit.
▭	Shaded result exceeds cleanup level
<	Result is less than laboratory reporting limit.
--	Not sampled, not analyzed, or data not available.
a	Analyzed by NWTPH-Gx.
b	Analyzed by NWTPH-Dx.
c	Sample extracts passed through a silica gel column prior to analysis.
d	Analyzed by EPA Method 8260D Series.
e	Samples collected in 2022 were analyzed by EPA Method 8021B.
f	Analyzed by EPA Method 6020B.
g	Model Toxics Control Act (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1, Washington Administrative Code (WAC) 173-340-900, July 2023.
h	MTCA Method A Groundwater Cleanup Level is 800 µg/L when benzene is present and 1,000 µg/L when benzene is not detected.

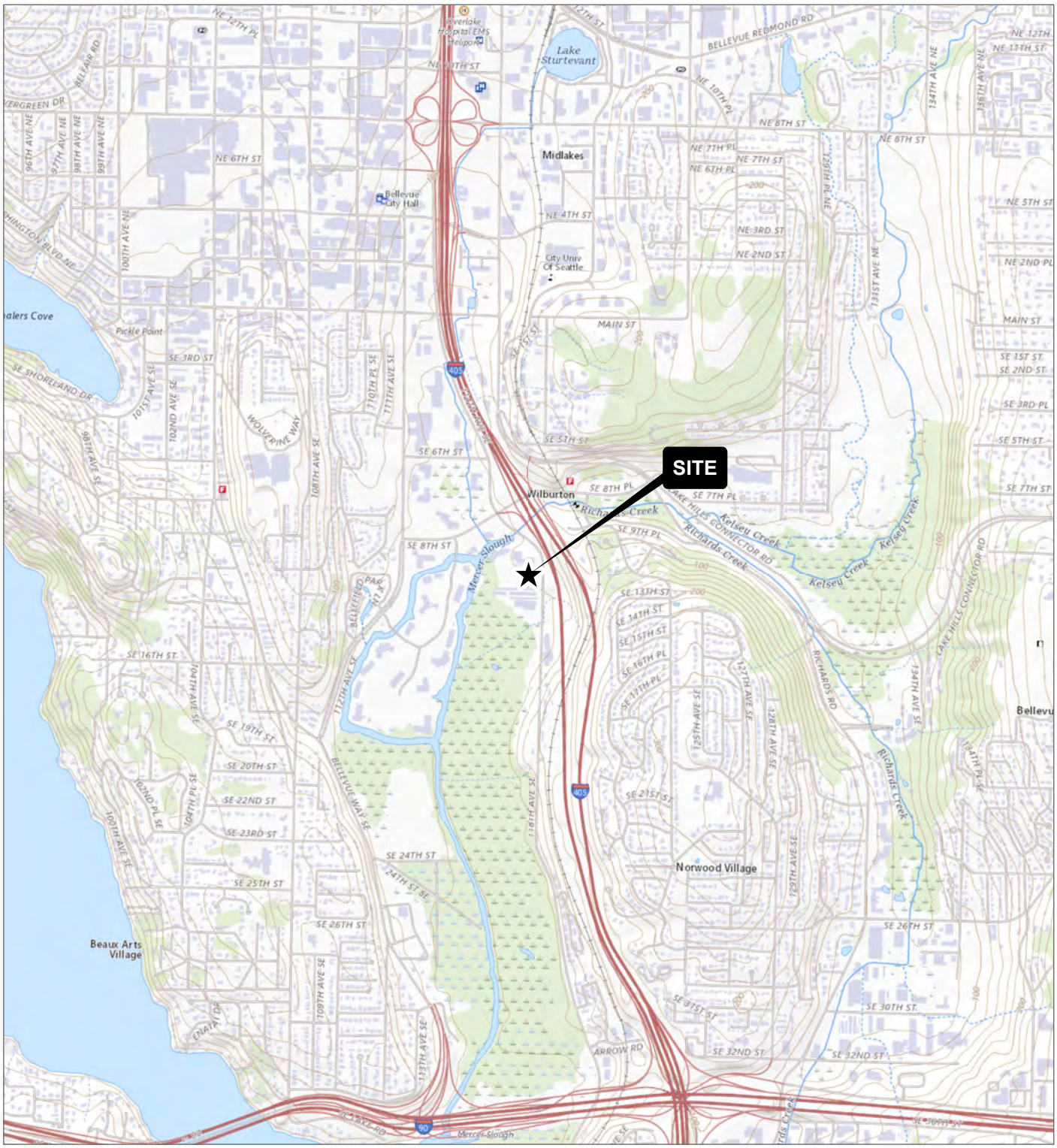
Qualifier:

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

Compounds:

GRO	Gasoline-range organics
DRO	Diesel-range organics
ORO	Oil-range organics
BTEX	Benzene, toluene, ethylbenzene, total xylenes
VOCs	Volatile organic compounds

Figures



0 1,000 2,000

FEET

1:24,000 1" = 2,000'

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

PROJECT: **FORMER EASTSIDE DISPOSAL PROPERTY - FORMER STORAGE BUILDING SITE**
969 118TH AVENUE SOUTHEAST
BELLEVUE, WASHINGTON

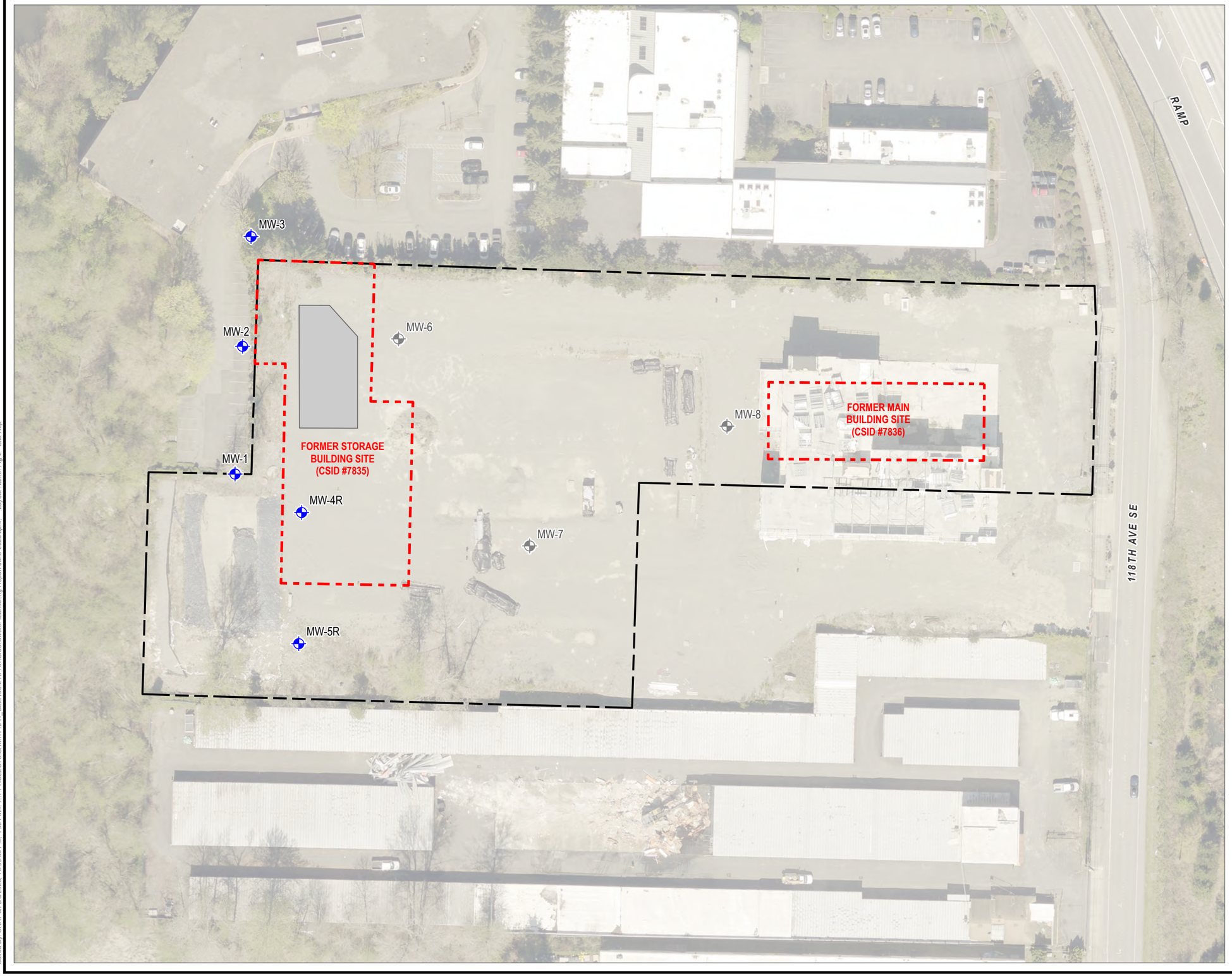
TITLE:

GENERAL VICINITY MAP
GROUNDWATER MONITORING REPORT

DRAWN BY:	S. RAY	PROJ. NO.:	471241.0000.0000
CHECKED BY:	J. WINDSOR		
APPROVED BY:	B. WING		**FIGURE 1**
DATE:	AUGUST 2023		

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: GROUNDWATER MONITORING REPORT JUNE 2023



MONITORING WELL LOCATION

MONITORING WELL LOCATION (USED FOR EVALUATION OF PIEZOMETRIC CONDITIONS ONLY)

APPROXIMATE SUBJECT PROPERTY BOUNDARY

FORMER STORAGE BUILDING

MTCA SITE BOUNDARY

BASE MAP: KING COUNTY, ARCGIS ONLINE (2021).
DATA SOURCES: TRC, PROPERTY BOUNDARY AND STREET NAMES FROM KING COUNTY, ARCGIS ONLINE (2021).

N

1:840
1" = 70'

0 70 140 FEET

PROJECT: **FORMER EASTSIDE DISPOSAL PROPERTY - FORMER STORAGE BUILDING SITE**
969 118TH AVENUE SOUTHEAST
BELLEVUE, WASHINGTON

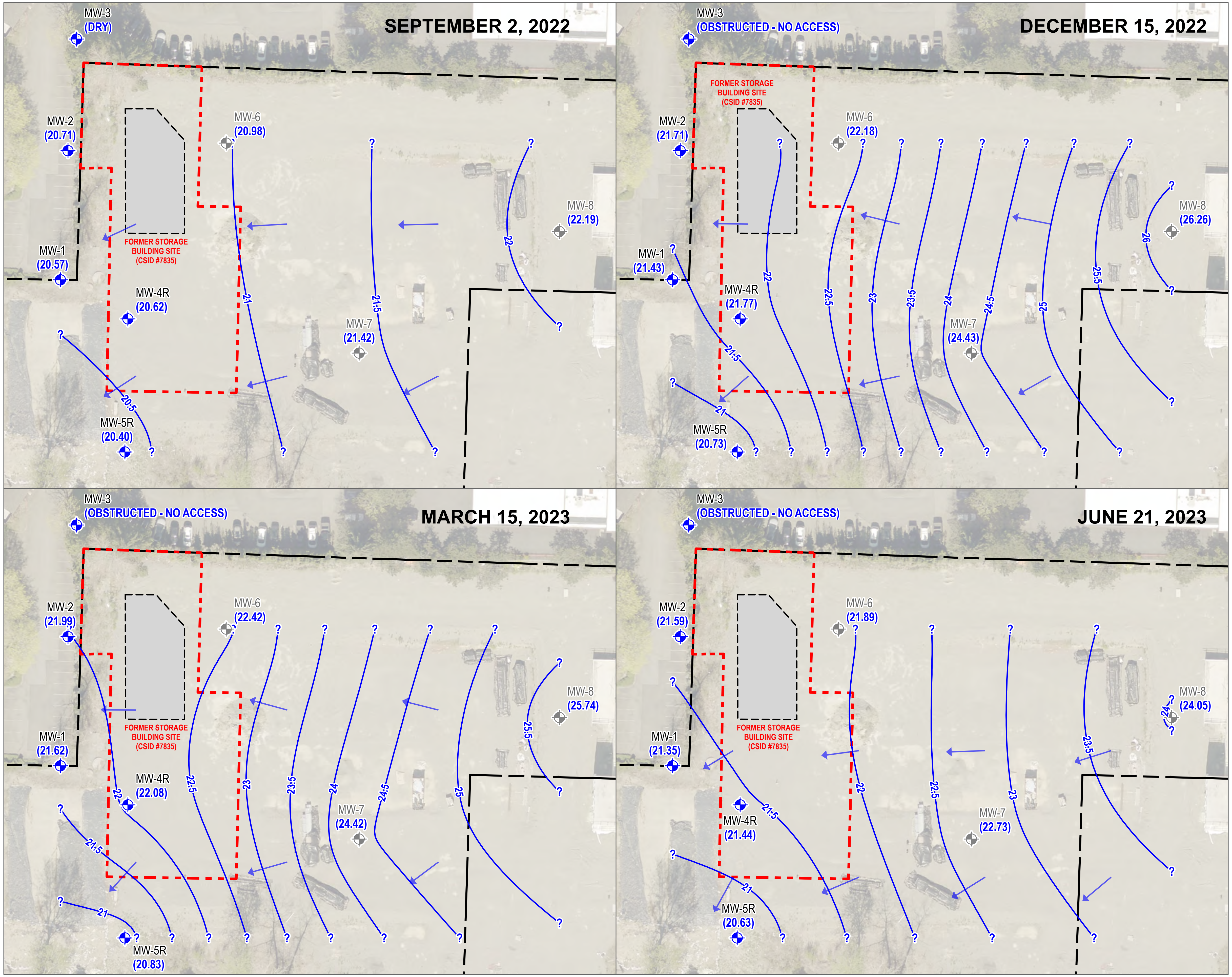
TITLE:
SITE REPRESENTATION MAP
GROUNDWATER MONITORING REPORT

DRAWN BY:	S. RAY	PROJ. NO.:	471241.0000.0000
CHECKED BY:	J. WINDSOR		**FIGURE 2**
APPROVED BY:	B. WING		
DATE:	AUGUST 2023		

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: Groundwater Monitoring Report June 2023.aprx

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet; Map Rotation: 0
Saved By: SRAY on 8/4/2023 10:03:30 PM; File Path: T:\PROJECTS\SKM\471241.Bellevue\3-APRX\Groundwater Monitoring Report June 2023.aprx; Layout Name: Fig 2 - Site Rep



MONITORING WELL LOCATION

MONITORING WELL LOCATION (USED FOR EVALUATION OF PIEZOMETRIC CONDITIONS ONLY)

GROUNDWATER CONTOUR (0.5 FOOT INTERVAL), QUERIED WHERE UNCERTAIN

INFERRED GROUNDWATER FLOW DIRECTION

APPROXIMATE SUBJECT PROPERTY BOUNDARY

FORMER STORAGE BUILDING

MTCA SITE BOUNDARY

NOTES:

(24.05) = GROUNDWATER ELEVATION, FEET ABOVE MEAN SEA LEVEL.
(DRY) = NO MEASUREABLE GROUNDWATER AVAILABLE IN WELL DURING SAMPLING EVENT.

BASE MAP: KING COUNTY, ARCGIS ONLINE (2021).
DATA SOURCES: TRC, PROPERTY BOUNDARY AND STREET NAMES FROM KING COUNTY, ARCGIS ONLINE (2021).

N

1:840

1" = 70'

0 35 70 FEET

PROJECT: FORMER EASTSIDE DISPOSAL PROPERTY - FORMER STORAGE BUILDING SITE
969 118TH AVENUE SOUTHEAST
BELLEVUE, WASHINGTON

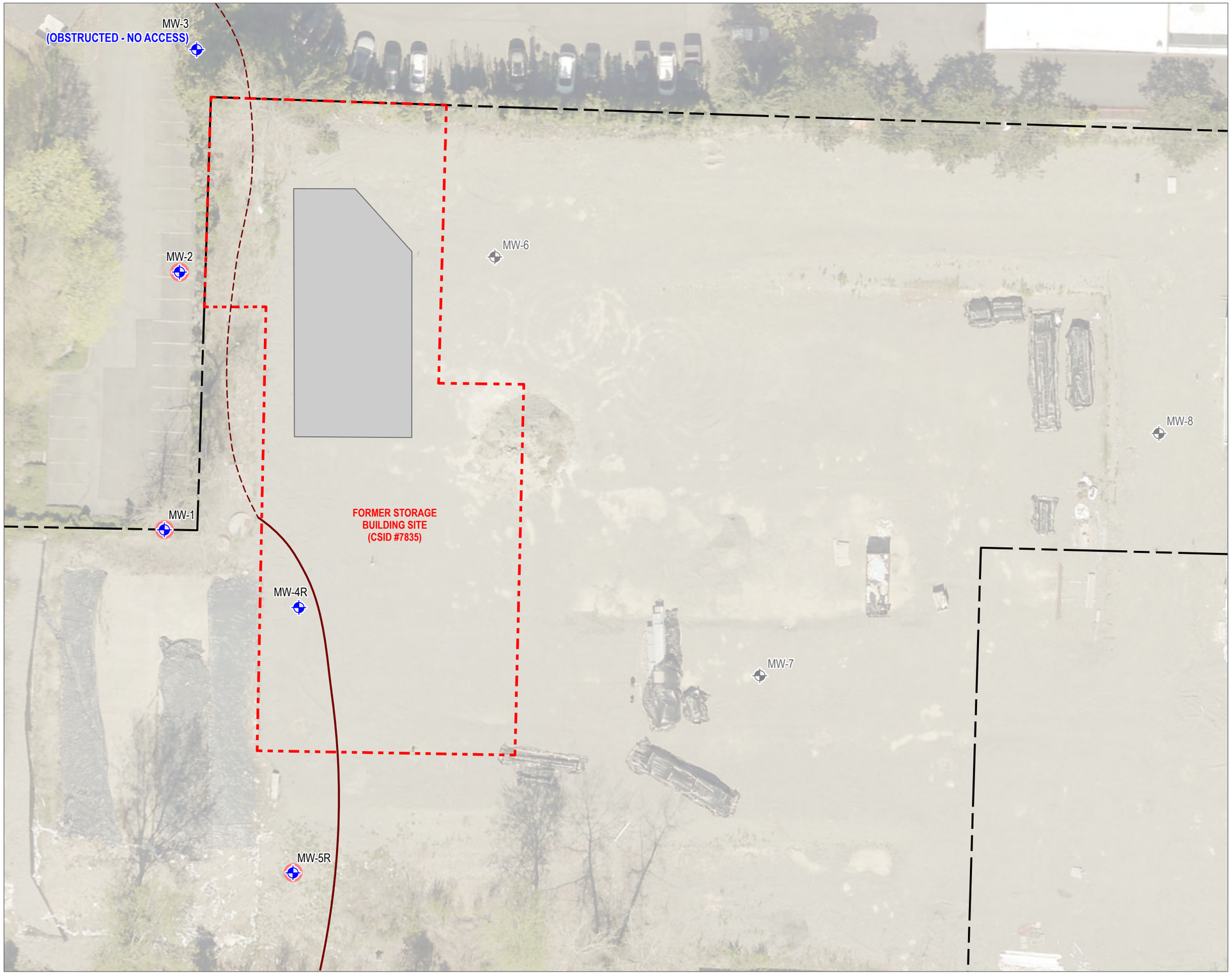
TITLE: QUARTERLY GROUNDWATER ELEVATION CONTOURS FOR SEPTEMBER 2022 THROUGH JUNE 2023 GROUNDWATER MONITORING REPORT

DRAWN BY:	S. RAY	PROJ. NO.:	471241.0000.0000
CHECKED BY:	J. WINDSOR	FIGURE 3	
APPROVED BY:	B. WING		
DATE:	AUGUST 2023		

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: Groundwater Monitoring Report June 2023.aprx

Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet; Map Rotation: 0
-- Saved By: SRAY on 9/6/2023, 16:03:30 PM; File Path: T:\1-PROJECTS\SRM471241_Bellevue\2-APRX\Groundwater Monitoring Report June 2023.aprx; Layout Name: Fig 3 - GW Contours June 2023



MONITORING WELL LOCATION

INDICATES ONE OR MORE EXCEEDANCE OF MTCA METHOD A GROUNDWATER CLEANUP LEVEL FOR ARSENIC OVER FOUR MONITORING EVENTS

EVIDENCE OF SUBSURFACE PEAT DEPOSITS, DASHED WHERE INFERRED

APPROXIMATE SUBJECT PROPERTY BOUNDARY

FORMER STORAGE BUILDING

MTCA SITE BOUNDARY

NOTES:
µg/L = MICROGRAMS PER LITER.
NO OTHER COMPOUNDS EXCEEDED APPLICABLE CLEANUP LEVELS.

BASE MAP: KING COUNTY, ARCGIS ONLINE (2021).
DATA SOURCES: TRC, PROPERTY BOUNDARY AND STREET NAMES FROM KING COUNTY, ARCGIS ONLINE (2021).

N

1:420
1" = 35'

0 35 70 FEET

PROJECT: **FORMER EASTSIDE DISPOSAL PROPERTY - FORMER STORAGE BUILDING SITE**
969 118TH AVENUE SOUTHEAST
BELLEVUE, WASHINGTON

TITLE: **SUMMARY OF GROUNDWATER ANALYTICAL RESULTS GROUNDWATER MONITORING REPORT**

DRAWN BY:	S. RAY	PROJ. NO.:	471241.0000.0000
CHECKED BY:	J. WINDSOR		**FIGURE 4**
APPROVED BY:	B. WING		
DATE:	AUGUST 2023		

TRC
1180 NW MAPLE STREET, SUITE 310
ISSAQUAH, WA 98027
PHONE: 425.395.0010

FILE: Groundwater Monitoring Report June 2023.aprx

Attachment A
Boring Logs

BORING ID: MW-4R

SITE ADDRESS **969 118th Ave SE, Bellevue, WA**	CLIENT: **SRM Development**	CASING MATERIAL AND SIZE: **2" Sch 40 PVC**
DRILLING CONTRACTOR: **Holocene Drilling Inc.**	PROJECT #: **471241**	SCREEN SIZE: **.010 in slotted PVC**
DRILLING EQUIPMENT: **CME-75**	DATE: **8/23/2022**	SCREEN INTERVAL: **5 - 15 ft**
DRILLING METHOD: **Hollow Stem Auger (HSA)**	GROUND SURFACE ELEV. FT AMSL: **NM**	FILTER PACK: **Silica Sand 10/20**
LOGGED BY: **J. Windsor** / BOREHOLE SIZE: **8 in**	TOTAL DEPTH: **16.5 ft**	FILTER PACK INTERVAL: **4 - 15 ft**

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	Blows per 6"	Sample	PID (ppm)	Well Construction
0–5	SW-SM	WELL-GRADED SAND WITH SILT AND GRAVEL; brown to dark brown; dry to damp; loose; mostly fine to coarse sand, some gravel, trace silt, possible fill material; gravel is angular to rounded, max size 1.5"	60	16, 24, 28	TSB-10/MW-4 R:5	0	Well monument; Cement; Well casing; Bentonite; Filter pack; Screen
5–10							
10–15	SW-SM	WELL-GRADED SAND WITH SILT AND GRAVEL; brown to dark brown; moist, becomes wet at 10.5 ft, mostly fine to coarse sand, some gravel, trace silt; gravel is subangular to rounded, max size 1.2"	50	6, 9, 8	TSB-10/MW-4 R:10	0	10.5 ▼; End cap
15		End of Borehole	NR				
15–30							

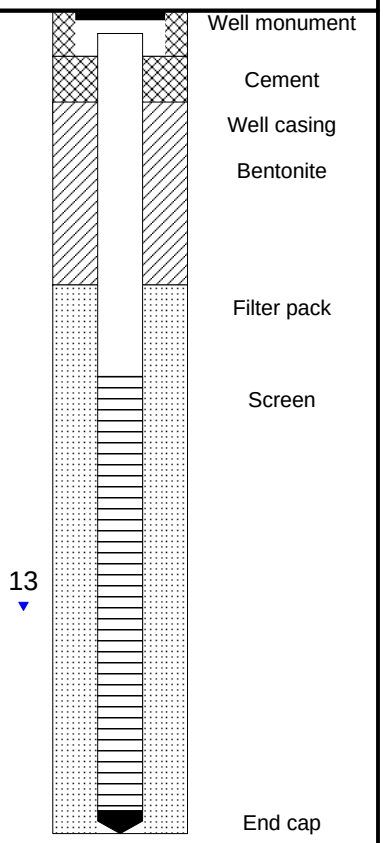
NOTES: Groundwater observed at 10.5 ft, well ID = BPK 195

BORING ID: MW-5R

SITE ADDRESS: **969 118th Ave SE, Bellevue, WA**	CLIENT: **SRM Development**	CASING MATERIAL AND SIZE: **2" Sch 40 PVC**
DRILLING CONTRACTOR: **Holocene Drilling Inc.**	PROJECT #: **471241**	SCREEN SIZE: **.010 in slotted PVC**
DRILLING EQUIPMENT: **CME-75**	DATE: **8/23/2022**	SCREEN INTERVAL: **8 - 18 ft**
DRILLING METHOD: **Hollow Stem Auger (HSA)**	GROUND SURFACE ELEV. FT AMSL: **NM**	FILTER PACK: **Silica Sand 10/20**
LOGGED BY: **J. Windsor** / BOREHOLE SIZE: **8 in**	TOTAL DEPTH: **19.5 ft**	FILTER PACK INTERVAL: **6 - 18 ft**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	Blows per 6"	Sample	PID (ppm)
0–5	SW-SM	WELL-GRADED SAND WITH SILT AND GRAVEL; brown to dark brown; damp; loose; mostly fine to coarse sand, some gravel, trace silt; possible fill material, fragments of plastic and brick present	10	20, 18, 27	TSB-11/MW-5 R:5	0
10–13	SW-SM	WELL-GRADED SAND WITH SILT AND GRAVEL; brown, becomes dark brown at 10.5 ft, damp; loose; mostly fine to coarse sand, some gravel, trace silt; brick and plastic fragments present, possibly fill material	50	11, 23, 31	TSB-11/MW-5 R:10	0.1
15–16	SM	SILTY SAND WITH GRAVEL; dark brown to dark olive gray; wet; loose; mostly fine to medium grained sand, some silt, minor gravel	10	3, 0, 0	TSB-11/MW-5 R:15	0
18–19		No recovery	0	0, 0, 0		
20		End of Borehole				

Well Construction



NOTES: Groundwater observed at ~13 ft, well ID = BPK 196

Attachment B
Wellhead Survey Data

September 7, 2022

Re: Monitoring Well Survey – PACE No. 22531

Client:	TRC Companies, INC
Project Name:	TRC-Bellevue (471241)
Site Address:	969 118th ave SE
City, and State:	Bellevue, WA

*Horizontal Datum:	NAD 83/2011 Washington SPC North (4601)
*Vertical Datum:	NAVD 88 Based on City of Bellevue benchmark #713

**** Benchmark: Punch in brass disk in concrete monument in case on CL of 118th ave SE in front of address 969 118th Ave SE**
Elevation = 52.07'

Well Name	Northing	Easting	Top of Casing Elevation	Lid Elevation
MW-1	221856.24	1306865.33	28.60	28.7
MW-2	221939.15	1306870.85	27.01	27.3
MW-3	222019.56	1306877.01	26.53	26.7
MW-4R	221812.00	1306913.99	31.03	31.5
MW-5R	221722.16	1306911.86	27.43	28.0
MW-6	221944.62	1306984.80	31.73	32.1
MW-7	221793.38	1307080.57	31.47	31.7
MW-8	221880.93	1307224.83	39.67	40.4

PACE Engineers, Inc.
11255 Kirkland Way, Suite 300
Kirkland, Washington 98033-3417
p: 425.827.2014 | *f:* 425.827.5043
www.paceengrs.com

Attachment C
Laboratory Analytical Report

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 13, 2022

Joe Sherrod, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: SRM Development 417241 186033, F&BI 209041

Dear Mr Sherrod:

Included are the results from the testing of material submitted on September 2, 2022 from the SRM Development 417241 186033, F&BI 209041 project. There are 29 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon, Jerry Boyd
TRC0913R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 2, 2022 by Friedman & Bruya, Inc. from the TRC Environmental SRM Development 417241 186033, F&BI 209041 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
209041 -01	MW-6:GW
209041 -02	MW-7:GW
209041 -03	MW-8:GW
209041 -04	MW-4R:GW
209041 -05	MW-5R:GW
209041 -06	MW-1:GW
209041 -07	MW-2:GW
209041 -08	DUP-1

The 8260D calibration standard failed the acceptance criteria for methylene chloride. The data were flagged accordingly.

All quality control requirements were acceptable.

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041
Date Extracted: 09/09/22
Date Analyzed: 09/09/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
MW-8:GW 209041-03	<100	90
MW-4R:GW 209041-04	<100	87
MW-5R:GW 209041-05	<100	87
MW-1:GW 209041-06	<100	84
MW-2:GW 209041-07	<100	89
Method Blank 02-2074 MB	<100	93

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041
Date Extracted: 09/09/22
Date Analyzed: 09/09/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING METHODS 8021B AND NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Gasoline Range	Surrogate (% Recovery) (Limit 52-124)
MW-6:GW 209041-01	<1	<1	<1	<3	<100	88
DUP-1 209041-08	<1	<1	<1	<3	<100	88
Method Blank 02-2074 MB	<1	<1	<1	<3	<100	89

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041
Date Extracted: 09/07/22
Date Analyzed: 09/09/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW-6:GW 209041-01	<50	<250	122
MW-7:GW 209041-02	<50	<250	96
MW-8:GW 209041-03	<50	<250	118
MW-4R:GW 209041-04	<50	<250	112
MW-5R:GW 209041-05	<50	<250	102
MW-1:GW 209041-06	<50	<250	121
MW-2:GW 209041-07	<50	<250	94
DUP-1 209041-08	<50	<250	119
Method Blank 02-2122 MB	<50	<250	140

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041
Date Extracted: 09/07/22
Date Analyzed: 09/07/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 47-140)
MW-6:GW 209041-01	150 x	<250	108
MW-7:GW 209041-02	<50	<250	97
MW-8:GW 209041-03	200 x	<250	115
MW-4R:GW 209041-04	<50	<250	117
MW-5R:GW 209041-05	170 x	<250	105
MW-1:GW 209041-06	360 x	<250	103
MW-2:GW 209041-07	270 x	<250	94
DUP-1 209041-08	120 x	<250	119
Method Blank 02-2122 MB	<50	<250	123

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-6:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-01
Date Analyzed:	09/12/22	Data File:	209041-01.073
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	1.94

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-7:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-02
Date Analyzed:	09/12/22	Data File:	209041-02.062
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	1.30
Barium	25.7
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-8:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-03
Date Analyzed:	09/12/22	Data File:	209041-03.065
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	3.93
Barium	35.7
Cadmium	<1
Chromium	1.07
Lead	<1
Mercury	<1
Selenium	1.24
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-4R:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-04
Date Analyzed:	09/12/22	Data File:	209041-04.066
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	1.18

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-5R:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-05
Date Analyzed:	09/12/22	Data File:	209041-05.067
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	12.0

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-06
Date Analyzed:	09/12/22	Data File:	209041-06.068
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	9.02

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-2:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-07
Date Analyzed:	09/12/22	Data File:	209041-07.069
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	11.3

Analysis For Total Metals By EPA Method 6020B

Client ID:	DUP-1	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	209041-08
Date Analyzed:	09/12/22	Data File:	209041-08.072
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	9.81

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	186033, F&BI 209041
Date Extracted:	09/12/22	Lab ID:	I2-630 mb
Date Analyzed:	09/12/22	Data File:	I2-630 mb.060
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	WE

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-7:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-02
Date Analyzed:	09/07/22	Data File:	090715.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	98	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5 ca	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-8:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-03
Date Analyzed:	09/07/22	Data File:	090716.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5 ca	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-4R:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-04
Date Analyzed:	09/06/22	Data File:	090619.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-5R:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-05
Date Analyzed:	09/06/22	Data File:	090620.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-06
Date Analyzed:	09/06/22	Data File:	090621.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	78	126
Toluene-d8	93	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-2:GW	Client:	TRC Environmental
Date Received:	09/02/22	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	209041-07
Date Analyzed:	09/06/22	Data File:	090618.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	186033, F&BI 209041
Date Extracted:	09/06/22	Lab ID:	02-1969 mb
Date Analyzed:	09/06/22	Data File:	090607.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	RF

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	101	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041
Date Extracted: 09/08/22
Date Analyzed: 09/08/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED
Results Reported as µg/L (ppb)

Sample ID Laboratory ID	EDB
MW-7:GW 209041-02	<0.01
MW-8:GW 209041-03	<0.01
Method Blank 02-2130	<0.01

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES, AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 209042-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	115	65-118
Toluene	ug/L (ppb)	50	91	72-122
Ethylbenzene	ug/L (ppb)	50	95	73-126
Xylenes	ug/L (ppb)	150	93	74-118
Gasoline	ug/L (ppb)	1,000	101	69-134

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	92	96	63-142	4

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	112	61-133	4

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

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

Laboratory Code: 209041-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	1.30	89	89	75-125	0
Barium	ug/L (ppb)	50	25.7	95	95	75-125	0
Cadmium	ug/L (ppb)	5	<1	98	97	75-125	1
Chromium	ug/L (ppb)	20	<1	95	96	75-125	1
Lead	ug/L (ppb)	10	<1	87	87	75-125	0
Mercury	ug/L (ppb)	5	<1	93	95	75-125	2
Selenium	ug/L (ppb)	5	<1	84	94	75-125	11
Silver	ug/L (ppb)	5	<1	91	90	75-125	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	89	80-120
Barium	ug/L (ppb)	50	95	80-120
Cadmium	ug/L (ppb)	5	97	80-120
Chromium	ug/L (ppb)	20	96	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	101	80-120
Selenium	ug/L (ppb)	5	98	80-120
Silver	ug/L (ppb)	5	98	80-120

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	109	107	46-206	2
Chloromethane	ug/L (ppb)	10	100	101	70-142	1
Vinyl chloride	ug/L (ppb)	10	107	106	70-130	1
Bromomethane	ug/L (ppb)	10	106	114	56-197	7
Chloroethane	ug/L (ppb)	10	114	111	70-130	3
Trichlorofluoromethane	ug/L (ppb)	10	104	101	70-130	3
Acetone	ug/L (ppb)	50	99	100	10-140	1
1,1-Dichloroethene	ug/L (ppb)	10	103	100	70-130	3
Hexane	ug/L (ppb)	10	88	87	54-136	1
Methylene chloride	ug/L (ppb)	10	77	77	43-134	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	102	99	70-130	3
trans-1,2-Dichloroethene	ug/L (ppb)	10	110	106	70-130	4
1,1-Dichloroethane	ug/L (ppb)	10	99	100	70-130	1
2,2-Dichloropropane	ug/L (ppb)	10	117	112	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	10	108	107	70-130	1
Chloroform	ug/L (ppb)	10	97	95	70-130	2
2-Butanone (MEK)	ug/L (ppb)	50	106	102	17-154	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	99	96	70-130	3
1,1,1-Trichloroethane	ug/L (ppb)	10	102	99	70-130	3
1,1-Dichloropropene	ug/L (ppb)	10	97	97	70-130	0
Carbon tetrachloride	ug/L (ppb)	10	103	103	70-130	0
Benzene	ug/L (ppb)	10	103	99	70-130	4
Trichloroethene	ug/L (ppb)	10	104	100	70-130	4
1,2-Dichloropropane	ug/L (ppb)	10	100	95	70-130	5
Bromodichloromethane	ug/L (ppb)	10	104	97	70-130	7
Dibromomethane	ug/L (ppb)	10	104	98	70-130	6
4-Methyl-2-pentanone	ug/L (ppb)	50	112	101	68-130	10
cis-1,3-Dichloropropene	ug/L (ppb)	10	106	95	69-131	11
Toluene	ug/L (ppb)	10	119	112	70-130	6
trans-1,3-Dichloropropene	ug/L (ppb)	10	109	100	70-130	9
1,1,2-Trichloroethane	ug/L (ppb)	10	111	104	70-130	7
2-Hexanone	ug/L (ppb)	50	113	111	45-138	2
1,3-Dichloropropane	ug/L (ppb)	10	105	101	70-130	4
Tetrachloroethene	ug/L (ppb)	10	111	107	70-130	4
Dibromochloromethane	ug/L (ppb)	10	111	107	60-148	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	114	106	70-130	7
Chlorobenzene	ug/L (ppb)	10	109	103	70-130	6
Ethylbenzene	ug/L (ppb)	10	112	107	70-130	5
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	107	110	70-130	3
m,p-Xylene	ug/L (ppb)	20	112	107	70-130	5
o-Xylene	ug/L (ppb)	10	110	107	70-130	3
Styrene	ug/L (ppb)	10	104	100	70-130	4
Isopropylbenzene	ug/L (ppb)	10	107	107	70-130	0
Bromoform	ug/L (ppb)	10	115	114	69-138	1
n-Propylbenzene	ug/L (ppb)	10	111	107	70-130	4
Bromobenzene	ug/L (ppb)	10	111	108	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	108	106	70-130	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	111	111	70-130	0
1,2,3-Trichloropropane	ug/L (ppb)	10	109	111	70-130	2
2-Chlorotoluene	ug/L (ppb)	10	107	106	70-130	1
4-Chlorotoluene	ug/L (ppb)	10	109	109	70-130	0
tert-Butylbenzene	ug/L (ppb)	10	108	110	70-130	2
1,2,4-Trimethylbenzene	ug/L (ppb)	10	106	107	70-130	1
sec-Butylbenzene	ug/L (ppb)	10	109	109	70-130	0
p-Isopropyltoluene	ug/L (ppb)	10	109	109	70-130	0
1,3-Dichlorobenzene	ug/L (ppb)	10	107	109	70-130	2
1,4-Dichlorobenzene	ug/L (ppb)	10	107	106	70-130	1
1,2-Dichlorobenzene	ug/L (ppb)	10	105	108	70-130	3
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	115	121	70-130	5
1,2,4-Trichlorobenzene	ug/L (ppb)	10	101	105	70-130	4
Hexachlorobutadiene	ug/L (ppb)	10	101	108	70-130	7
Naphthalene	ug/L (ppb)	10	101	105	70-130	4
1,2,3-Trichlorobenzene	ug/L (ppb)	10	101	106	70-130	5

Date of Report: 09/13/22
Date Received: 09/02/22
Project: SRM Development 417241 186033, F&BI 209041

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 10)
1,2-Dibromoethane	ug/L (ppb)	0.10	99	100	70-130	1

Data Qualifiers & Definitions

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

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

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

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SAMPLE CHAIN OF CUSTODY

209041

09-02-22

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Report To Joe Sherrod

Company TRC

Address 1180 NW Maple St, #310

City, State, ZIP Issaquah, WA 98027

Phone 425-395-0010 Email JSherrod@trcompanies.com
JBoyd@
cc: cmoon@

SAMPLERS (*signature*) JW and JJ

PROJECT NAME: SRM Development 471241

PO # 186033

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- [x] Standard turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Archive samples
- [ ] Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	NWTPH-Dx w/ SGC	VOCs + MTBE by 8260C	1,2-Dibromoethane (EDB) by 8011B	RCRA 8 Metals by 200.8, 6020A, 1638E	BTEX by 8260	Arsenic by 6020	Notes
MW-6:GW	01A-D	09/02/22	0937	H_2O	4	X	X	X					X					X	SGC = Silica gel cleanup
MW-7:GW	02A-L		1040		11	X							X	X	X	X			
MW-8:GW	03		1122		11	X	X						X	X	X	X			
MW-4R:GW	04A-H		1205		8	X	X						X				X	X	
MW-5R:GW	05		1431		8	X	X						X				X	X	
MW-1:GW	06		1437		8	X	X						X				X	X	
MW-2:GW	07		1539		8	X	X						X				X	X	
DUP-1	08A-D				4	X	X	X					X					X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Joel Jacobsen	TRC	09/02/22	17:32
Received by:	Joe Mohammed	FBI	09/02/22	17:32
Relinquished by:	Samples received at 6 °C			
Received by:				

Friedman & Bruya, Inc.
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

December 28, 2022

Jerry Boyd, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: SRM Bellevue 471241.0001 193460, F&BI 212266

Dear Mr Boyd:

Included are the results from the testing of material submitted on December 16, 2022 from the SRM Bellevue 471241.0001 193460, F&BI 212266 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon, Joe Sherrod
TRC1228R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on December 16, 2022 by Friedman & Bruya, Inc. from the TRC Environmental SRM Bellevue 471241.0001 193460, F&BI 212266 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
212266-01	MW-7
212266-02	MW-8
212266-03	MW-4R
212266-04	MW-5R
212266-05	MW-1
212266-06	MW-6
212266-07	MW-2
212266-08	DUP-1

All quality control requirements were acceptable.

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266
Date Extracted: 12/21/22
Date Analyzed: 12/21/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW-7 212266-01	<100	124
MW-8 212266-02	<100	107
MW-4R 212266-03	<100	115
MW-5R 212266-04	<100	117
MW-1 212266-05	<100	112
MW-6 212266-06	<100	109
MW-2 212266-07	<100	111
DUP-1 212266-08	<100	117
Method Blank 02-2938 MB	<100	119

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266
Date Extracted: 12/19/22
Date Analyzed: 12/20/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW-7 212266-01 1/0.4	<50	<250	108
MW-8 212266-02 1/0.4	<50	<250	108
MW-4R 212266-03 1/0.4	<50	<250	121
MW-5R 212266-04 1/0.4	<50	<250	105
MW-1 212266-05 1/0.4	<50	<250	117
MW-6 212266-06 1/0.4	<50	<250	114
MW-2 212266-07 1/0.4	<50	<250	117
DUP-1 212266-08 1/0.4	<50	<250	117
Method Blank 02-3021 MB	<50	<250	121

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266
Date Extracted: 12/19/22
Date Analyzed: 12/20/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 41-152)
MW-7 212266-01 1/0.4	97 x	<260	146
MW-8 212266-02 1/0.4	220 x	<250	135
MW-4R 212266-03 1/0.4	55 x	<250	148
MW-5R 212266-04 1/0.4	130 x	<250	133
MW-1 212266-05 1/0.4	310 x	<250	143
MW-6 212266-06 1/0.4	74 x	<250	150
MW-2 212266-07 1/0.4	440 x	<250	149
DUP-1 212266-08 1/0.4	77 x	<260	150
Method Blank 02-3021 MB	<50	<250	141

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-7	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-01
Date Analyzed:	12/19/22	Data File:	212266-01.110
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	33.1
Cadmium	<1
Chromium	1.24
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-8	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-02
Date Analyzed:	12/19/22	Data File:	212266-02.111
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	8.17
Barium	69.7
Cadmium	<1
Chromium	1.30
Lead	<1
Mercury	<1
Selenium	2.05
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-4R	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-03
Date Analyzed:	12/19/22	Data File:	212266-03.112
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.06

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-5R	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-04
Date Analyzed:	12/19/22	Data File:	212266-04.113
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	3.32

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-05
Date Analyzed:	12/19/22	Data File:	212266-05.114
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.4

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-6	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-06
Date Analyzed:	12/19/22	Data File:	212266-06.117
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.81

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-2	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-07
Date Analyzed:	12/19/22	Data File:	212266-07.118
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.7

Analysis For Total Metals By EPA Method 6020B

Client ID:	DUP-1	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	212266-08
Date Analyzed:	12/19/22	Data File:	212266-08.119
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.73

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/19/22	Lab ID:	I2-910 mb
Date Analyzed:	12/19/22	Data File:	I2-910 mb.037
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-7	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-01
Date Analyzed:	12/22/22	Data File:	122217.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-8	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-02
Date Analyzed:	12/22/22	Data File:	122218.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-4R	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-03
Date Analyzed:	12/22/22	Data File:	122219.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	99	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-5R	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-04
Date Analyzed:	12/22/22	Data File:	122220.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-05
Date Analyzed:	12/22/22	Data File:	122221.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-6	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-06
Date Analyzed:	12/22/22	Data File:	122222.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	78	126
Toluene-d8	92	84	115
4-Bromofluorobenzene	105	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-2	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-07
Date Analyzed:	12/22/22	Data File:	122223.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	DUP-1	Client:	TRC Environmental
Date Received:	12/16/22	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/22/22	Lab ID:	212266-08
Date Analyzed:	12/22/22	Data File:	122224.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	96	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	SRM Bellevue 471241.0001
Date Extracted:	12/20/22	Lab ID:	02-2976 mb
Date Analyzed:	12/20/22	Data File:	122007.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266
Date Extracted: 12/21/22
Date Analyzed: 12/21/22

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR 1,2-DIBROMOETHANE BY EPA METHOD 8011 MODIFIED
Results Reported as µg/L (ppb)

Sample ID Laboratory ID	EDB
MW-7 212266-01	<0.01
MW-8 212266-02	<0.01
Method Blank 02-2786 MB	<0.01

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: 212287-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	110	70-130

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	1,000	84	85	70-130	1

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	1,000	109	108	70-130	1

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: 212279-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<1	100	99	75-125	1
Barium	ug/L (ppb)	50	33.8	107	105	75-125	2
Cadmium	ug/L (ppb)	5	<1	101	101	75-125	0
Chromium	ug/L (ppb)	20	<1	109	102	75-125	7
Lead	ug/L (ppb)	10	2.24	90	89	75-125	1
Mercury	ug/L (ppb)	5	<1	105	97	75-125	8
Selenium	ug/L (ppb)	5	<1	107	109	75-125	2
Silver	ug/L (ppb)	5	<1	91	91	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	93	80-120
Barium	ug/L (ppb)	50	97	80-120
Cadmium	ug/L (ppb)	5	95	80-120
Chromium	ug/L (ppb)	20	100	80-120
Lead	ug/L (ppb)	10	97	80-120
Mercury	ug/L (ppb)	5	92	80-120
Selenium	ug/L (ppb)	5	100	80-120
Silver	ug/L (ppb)	5	96	80-120

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: 212284-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<10	108	50-150
Chloromethane	ug/L (ppb)	10	<10	99	50-150
Vinyl chloride	ug/L (ppb)	10	<0.2	103	50-150
Bromomethane	ug/L (ppb)	10	<1	116	50-150
Chloroethane	ug/L (ppb)	10	<1	109	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	96	50-150
Acetone	ug/L (ppb)	50	<10	77	50-150
1,1-Dichloroethene	ug/L (ppb)	10	<1	107	50-150
Hexane	ug/L (ppb)	10	<1	105	50-150
Methylene chloride	ug/L (ppb)	10	<5	92	50-150
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	102	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	103	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	104	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	112	50-150
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	104	50-150
Chloroform	ug/L (ppb)	10	<1	99	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<10	99	50-150
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<1	100	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	102	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	100	50-150
Carbon tetrachloride	ug/L (ppb)	10	<1	108	50-150
Benzene	ug/L (ppb)	10	<0.35	103	50-150
Trichloroethene	ug/L (ppb)	10	<1	96	50-150
1,2-Dichloropropane	ug/L (ppb)	10	<1	99	50-150
Bromodichloromethane	ug/L (ppb)	10	<1	101	50-150
Dibromomethane	ug/L (ppb)	10	<1	105	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	100	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<1	99	50-150
Toluene	ug/L (ppb)	10	<1	100	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<1	102	50-150
1,1,2-Trichloroethane	ug/L (ppb)	10	<1	102	50-150
2-Hexanone	ug/L (ppb)	50	<10	97	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	105	50-150
Tetrachloroethene	ug/L (ppb)	10	2.1	95	50-150
Dibromochloromethane	ug/L (ppb)	10	<1	106	50-150
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	102	50-150
Chlorobenzene	ug/L (ppb)	10	<1	100	50-150
Ethylbenzene	ug/L (ppb)	10	<1	102	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	104	50-150
m,p-Xylene	ug/L (ppb)	20	<2	101	50-150
o-Xylene	ug/L (ppb)	10	<1	104	50-150
Styrene	ug/L (ppb)	10	<1	96	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	97	50-150
Bromoform	ug/L (ppb)	10	<1	106	50-150
n-Propylbenzene	ug/L (ppb)	10	<1	107	50-150
Bromobenzene	ug/L (ppb)	10	<1	109	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	105	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<1	121	50-150
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	107	50-150
2-Chlorotoluene	ug/L (ppb)	10	<1	108	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	104	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	110	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	109	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	108	50-150
p-Isopropyltoluene	ug/L (ppb)	10	<1	108	50-150
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	105	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	100	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	104	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	110	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	96	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<1	102	50-150
Naphthalene	ug/L (ppb)	10	<1	67	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	94	50-150

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	108	106	46-206	2
Chloromethane	ug/L (ppb)	10	98	96	70-142	2
Vinyl chloride	ug/L (ppb)	10	102	102	70-130	0
Bromomethane	ug/L (ppb)	10	121	120	56-197	1
Chloroethane	ug/L (ppb)	10	110	109	70-130	1
Trichlorofluoromethane	ug/L (ppb)	10	101	96	70-130	5
Acetone	ug/L (ppb)	50	77	81	10-140	5
1,1-Dichloroethene	ug/L (ppb)	10	108	107	70-130	1
Hexane	ug/L (ppb)	10	106	105	54-136	1
Methylene chloride	ug/L (ppb)	10	96	96	43-134	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	103	101	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	104	102	70-130	2
1,1-Dichloroethane	ug/L (ppb)	10	106	104	70-130	2
2,2-Dichloropropane	ug/L (ppb)	10	101	105	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	10	106	105	70-130	1
Chloroform	ug/L (ppb)	10	104	100	70-130	4
2-Butanone (MEK)	ug/L (ppb)	50	103	98	17-154	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	101	99	70-130	2
1,1,1-Trichloroethane	ug/L (ppb)	10	104	102	70-130	2
1,1-Dichloropropene	ug/L (ppb)	10	105	101	70-130	4
Carbon tetrachloride	ug/L (ppb)	10	112	110	70-130	2
Benzene	ug/L (ppb)	10	105	104	70-130	1
Trichloroethene	ug/L (ppb)	10	98	96	70-130	2
1,2-Dichloropropane	ug/L (ppb)	10	102	100	70-130	2
Bromodichloromethane	ug/L (ppb)	10	102	103	70-130	1
Dibromomethane	ug/L (ppb)	10	104	99	70-130	5
4-Methyl-2-pentanone	ug/L (ppb)	50	103	98	68-130	5
cis-1,3-Dichloropropene	ug/L (ppb)	10	95	96	69-131	1
Toluene	ug/L (ppb)	10	101	101	70-130	0
trans-1,3-Dichloropropene	ug/L (ppb)	10	108	107	70-130	1
1,1,2-Trichloroethane	ug/L (ppb)	10	102	103	70-130	1
2-Hexanone	ug/L (ppb)	50	103	93	45-138	10
1,3-Dichloropropane	ug/L (ppb)	10	104	102	70-130	2
Tetrachloroethene	ug/L (ppb)	10	100	100	70-130	0
Dibromochloromethane	ug/L (ppb)	10	104	105	60-148	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	102	102	70-130	0
Chlorobenzene	ug/L (ppb)	10	102	103	70-130	1
Ethylbenzene	ug/L (ppb)	10	101	102	70-130	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	105	108	70-130	3
m,p-Xylene	ug/L (ppb)	20	102	101	70-130	1
o-Xylene	ug/L (ppb)	10	104	104	70-130	0
Styrene	ug/L (ppb)	10	100	97	70-130	3
Isopropylbenzene	ug/L (ppb)	10	99	95	70-130	4
Bromoform	ug/L (ppb)	10	105	103	69-138	2
n-Propylbenzene	ug/L (ppb)	10	103	100	70-130	3
Bromobenzene	ug/L (ppb)	10	103	103	70-130	0
1,3,5-Trimethylbenzene	ug/L (ppb)	10	103	100	70-130	3
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	116	112	70-130	4
1,2,3-Trichloropropane	ug/L (ppb)	10	100	101	70-130	1
2-Chlorotoluene	ug/L (ppb)	10	103	99	70-130	4
4-Chlorotoluene	ug/L (ppb)	10	100	99	70-130	1
tert-Butylbenzene	ug/L (ppb)	10	105	101	70-130	4
1,2,4-Trimethylbenzene	ug/L (ppb)	10	104	99	70-130	5
sec-Butylbenzene	ug/L (ppb)	10	103	100	70-130	3
p-Isopropyltoluene	ug/L (ppb)	10	104	102	70-130	2
1,3-Dichlorobenzene	ug/L (ppb)	10	102	100	70-130	2
1,4-Dichlorobenzene	ug/L (ppb)	10	100	96	70-130	4
1,2-Dichlorobenzene	ug/L (ppb)	10	105	100	70-130	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	99	100	70-130	1
1,2,4-Trichlorobenzene	ug/L (ppb)	10	106	100	70-130	6
Hexachlorobutadiene	ug/L (ppb)	10	104	99	70-130	5
Naphthalene	ug/L (ppb)	10	89	85	70-130	5
1,2,3-Trichlorobenzene	ug/L (ppb)	10	98	93	70-130	5

Date of Report: 12/28/22
Date Received: 12/16/22
Project: SRM Bellevue 471241.0001 193460, F&BI 212266

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 10)
1,2-Dibromoethane	ug/L (ppb)	0.10	119	120	70-130	1

Data Qualifiers & Definitions

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

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

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

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

212266

SAMPLE CHAIN OF CUSTODY

12/16/22 I3/N4/VW6 1 of 1

Report To Jerry Boyd, Joe Sherrod

Company TRC

Address 1180 NW Maple St, Suite 310

City, State, ZIP Issaquah, WA 98027

Phone (425) 395-0010 Email JBoyd@trccompanies.com JSherrod@trccompanies.com CMoon@trccompanies.com

SAMPLERS (*signature*) GW NTH

PROJECT NAME: SRM Bellevue 471241.0001

PO #: 193460

REMARKS: Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- [x] Standard turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Archive samples
- [ ] Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8260	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	VOCs and MTBE by 8260C	1,2-dibromoethane (EDB) by 8260C	RCRA 8 by 200.8/6020A, 7470A	DRO w/ SGC*	DRO/ORO w/ SGC*	Arsenic by 6020	Notes
MW-7	01 A-H	12/15/22	1140	H_2O	8	X	X						X	X	X	X			
MW-8	02		1148		8	X	X						X	X	X	X			
MW-4R	03 A-F		1300		6	X	X	X									X	X	
MW-5R	04		1500		6	X	X	X									X	X	
MW-1	05 A-H		1508		8	X	X	X									X	X	
MW-6	06		1315		8	X	X	X									X	X	
MW-2	07		1625		8	X	X	X									X	X	* SGC = silica gel cleanup
DUP-1	08		-		8	X	X	X									X	X	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: NTH	NATE DORFNER	TRC	12/16/22	0630
Received by:	Michael Erdahl	F.I.Bruya	12/16/22	0630
Relinquished by:				
Received by:		Samples received at 4°C		

Friedman & Bruya, Inc.
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

5500 4th Avenue South
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fbi@isomedia.com
www.friedmanandbruya.com

March 24, 2023

Joe Sherrod, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: SRM Development Bellevue-471241 193460, F&BI 303256

Dear Mr Sherrod:

Included are the results from the testing of material submitted on March 16, 2023 from the SRM Development Bellevue-471241 193460, F&BI 303256 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
TRC0324R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on March 16, 2023 by Friedman & Bruya, Inc. from the TRC Environmental SRM Development Bellevue-471241 193460, F&BI 303256 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
303256-01	MW-8
303256-02	MW-7
303256-03	MW-4R
303256-04	MW-6
303256-05	MW-5R
303256-06	MW-1
303256-07	MW-2
303256-08	DUP-01

All quality control requirements were acceptable.

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256
Date Extracted: 03/17/23
Date Analyzed: 03/17/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW-8 303256-01	<100	104
MW-7 303256-02	<100	108
MW-4R 303256-03	<100	100
MW-6 303256-04	<100	104
MW-5R 303256-05	<100	98
MW-1 303256-06	<100	94
MW-2 303256-07	<100	100
DUP-01 303256-08	<100	101
Method Blank 03-581 MB	<100	99

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256
Date Extracted: 03/17/23
Date Analyzed: 03/21/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
MW-8 303256-01	<50	<250	90
MW-7 303256-02	<50	<250	94
MW-4R 303256-03	<50	<250	90
MW-6 303256-04	<50	<250	93
MW-5R 303256-05	<50	<250	88
MW-1 303256-06	<50	<250	88
MW-2 303256-07	<50	<250	90
DUP-01 303256-08	<50	<260	85
Method Blank 03-630 MB	<50	<250	84

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256
Date Extracted: 03/17/23
Date Analyzed: 03/17/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
MW-8 303256-01	230 x	<250	86
MW-7 303256-02	55 x	<250	88
MW-4R 303256-03	<50	<250	94
MW-6 303256-04	110 x	<250	88
MW-5R 303256-05	220 x	<250	89
MW-1 303256-06	350 x	<250	89
MW-2 303256-07	360 x	<250	89
DUP-01 303256-08	<50	<250	90
Method Blank 03-630 MB	<50	<250	92

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-8	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-01
Date Analyzed:	03/16/23	Data File:	303256-01.130
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	7.18
Barium	59.6
Cadmium	<1
Chromium	1.07
Lead	<1
Mercury	<1
Selenium	1.07
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-7	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-02
Date Analyzed:	03/16/23	Data File:	303256-02.131
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	20.1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-4R	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-03
Date Analyzed:	03/16/23	Data File:	303256-03.132
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-6	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-04
Date Analyzed:	03/16/23	Data File:	303256-04.133
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.51

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-5R	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-05
Date Analyzed:	03/16/23	Data File:	303256-05.134
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	2.61

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-06
Date Analyzed:	03/16/23	Data File:	303256-06.143
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	9.55

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-2	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-07
Date Analyzed:	03/16/23	Data File:	303256-07.144
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	7.77

Analysis For Total Metals By EPA Method 6020B

Client ID:	DUP-01	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	303256-08
Date Analyzed:	03/16/23	Data File:	303256-08.145
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	SRM Development Bellevue-471241
Date Extracted:	03/16/23	Lab ID:	I3-200 mb2
Date Analyzed:	03/16/23	Data File:	I3-200 mb2.121
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-8	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-01
Date Analyzed:	03/21/23	Data File:	032140.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	88	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-7	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-02
Date Analyzed:	03/21/23	Data File:	032141.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-4R	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-03
Date Analyzed:	03/21/23	Data File:	032142.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	103	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-6	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-04
Date Analyzed:	03/21/23	Data File:	032143.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	106	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-5R	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-05
Date Analyzed:	03/21/23	Data File:	032144.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-06
Date Analyzed:	03/21/23	Data File:	032145.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	86	71	132
Toluene-d8	89	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-2	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-07
Date Analyzed:	03/21/23	Data File:	032146.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	DUP-01	Client:	TRC Environmental
Date Received:	03/16/23	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	303256-08
Date Analyzed:	03/21/23	Data File:	032147.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	93	68	139
4-Bromofluorobenzene	106	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	SRM Development Bellevue-471241
Date Extracted:	03/20/23	Lab ID:	03-0623 mb
Date Analyzed:	03/20/23	Data File:	032007.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256
Date Extracted: 03/22/23
Date Analyzed: 03/22/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED
Results Reported as µg/L (ppb)

Sample ID Laboratory ID	EDB
MW-8 303256-01	<0.01
MW-7 303256-02	<0.01
Method Blank 03-650	<0.01

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: 303222-01 Matrix Spike

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	ug/L (ppb)	1,000	<100	98	104	50-150	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	96	70-130

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	116	70-130	7

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	100	112	70-130	11

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: 303225-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	2.40	87	92	75-125	6
Barium	ug/L (ppb)	50	15.8	113	114	75-125	1
Cadmium	ug/L (ppb)	5	<1	94	96	75-125	2
Chromium	ug/L (ppb)	20	1.07	89	95	75-125	7
Lead	ug/L (ppb)	10	<1	81	83	75-125	2
Mercury	ug/L (ppb)	5	<1	83	84	75-125	1
Selenium	ug/L (ppb)	5	<1	83	84	75-125	1
Silver	ug/L (ppb)	5	<1	89	91	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	91	80-120
Barium	ug/L (ppb)	50	94	80-120
Cadmium	ug/L (ppb)	5	92	80-120
Chromium	ug/L (ppb)	20	93	80-120
Lead	ug/L (ppb)	10	95	80-120
Mercury	ug/L (ppb)	5	93	80-120
Selenium	ug/L (ppb)	5	84	80-120
Silver	ug/L (ppb)	5	90	80-120

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: 303265-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	87	50-150
Chloromethane	ug/L (ppb)	10	<10	87	50-150
Vinyl chloride	ug/L (ppb)	10	0.021	103	16-176
Bromomethane	ug/L (ppb)	10	<5	106	10-193
Chloroethane	ug/L (ppb)	10	<1	115	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	103	50-150
Acetone	ug/L (ppb)	50	<50	88	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	101	50-150
Hexane	ug/L (ppb)	10	<5	96	49-161
Methylene chloride	ug/L (ppb)	10	<5	100	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	104	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	100	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	103	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	88	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	13	117 b	50-150
Chloroform	ug/L (ppb)	10	<1	104	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	109	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	106	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	103	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	96	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	101	50-150
Benzene	ug/L (ppb)	10	<0.35	100	50-150
Trichloroethene	ug/L (ppb)	10	16	118 b	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	105	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	107	50-150
Dibromomethane	ug/L (ppb)	10	<1	103	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	116	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	100	48-145
Toluene	ug/L (ppb)	10	<1	110	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	100	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	111	50-150
2-Hexanone	ug/L (ppb)	50	<10	108	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	98	50-150
Tetrachloroethene	ug/L (ppb)	10	460	-23	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	101	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	101	50-150
Chlorobenzene	ug/L (ppb)	10	<1	104	50-150
Ethylbenzene	ug/L (ppb)	10	<1	108	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	105	50-150
m,p-Xylene	ug/L (ppb)	20	<2	109	50-150
o-Xylene	ug/L (ppb)	10	<1	103	50-150
Styrene	ug/L (ppb)	10	<1	108	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	109	50-150
Bromoform	ug/L (ppb)	10	<5	104	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	102	50-150
Bromobenzene	ug/L (ppb)	10	<1	103	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	103	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	109	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	6.8	98 b	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	102	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	103	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	104	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	104	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	104	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	104	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	102	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	103	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	102	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	93	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	96	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	93	42-150
Naphthalene	ug/L (ppb)	10	<1	99	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	98	44-155

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	114	115	70-130	1
Chloromethane	ug/L (ppb)	10	99	99	70-130	0
Vinyl chloride	ug/L (ppb)	10	114	116	70-130	2
Bromomethane	ug/L (ppb)	10	145	134	28-182	8
Chloroethane	ug/L (ppb)	10	122	126	70-130	3
Trichlorofluoromethane	ug/L (ppb)	10	112	115	70-130	3
Acetone	ug/L (ppb)	50	90	95	42-155	5
1,1-Dichloroethene	ug/L (ppb)	10	109	112	70-130	3
Hexane	ug/L (ppb)	10	109	113	50-161	4
Methylene chloride	ug/L (ppb)	10	103	103	29-192	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	110	112	70-130	2
trans-1,2-Dichloroethene	ug/L (ppb)	10	107	109	70-130	2
1,1-Dichloroethane	ug/L (ppb)	10	109	111	70-130	2
2,2-Dichloropropane	ug/L (ppb)	10	106	110	70-130	4
cis-1,2-Dichloroethene	ug/L (ppb)	10	108	111	70-130	3
Chloroform	ug/L (ppb)	10	106	111	70-130	5
2-Butanone (MEK)	ug/L (ppb)	50	109	114	50-157	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	109	110	70-130	1
1,1,1-Trichloroethane	ug/L (ppb)	10	108	111	70-130	3
1,1-Dichloropropene	ug/L (ppb)	10	101	105	70-130	4
Carbon tetrachloride	ug/L (ppb)	10	111	114	70-130	3
Benzene	ug/L (ppb)	10	102	105	70-130	3
Trichloroethene	ug/L (ppb)	10	101	105	70-130	4
1,2-Dichloropropane	ug/L (ppb)	10	108	107	70-130	1
Bromodichloromethane	ug/L (ppb)	10	105	112	70-130	6
Dibromomethane	ug/L (ppb)	10	103	110	70-130	7
4-Methyl-2-pentanone	ug/L (ppb)	50	114	118	70-130	3
cis-1,3-Dichloropropene	ug/L (ppb)	10	107	103	70-130	4
Toluene	ug/L (ppb)	10	108	107	70-130	1
trans-1,3-Dichloropropene	ug/L (ppb)	10	104	102	70-130	2
1,1,2-Trichloroethane	ug/L (ppb)	10	106	106	70-130	0
2-Hexanone	ug/L (ppb)	50	111	114	69-130	3
1,3-Dichloropropane	ug/L (ppb)	10	107	106	70-130	1
Tetrachloroethene	ug/L (ppb)	10	109	108	70-130	1
Dibromochloromethane	ug/L (ppb)	10	107	106	63-142	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	105	105	70-130	0
Chlorobenzene	ug/L (ppb)	10	106	106	70-130	0
Ethylbenzene	ug/L (ppb)	10	109	108	70-130	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	109	107	70-130	2
m,p-Xylene	ug/L (ppb)	20	109	108	70-130	1
o-Xylene	ug/L (ppb)	10	102	101	70-130	1
Styrene	ug/L (ppb)	10	103	102	70-130	1
Isopropylbenzene	ug/L (ppb)	10	107	105	70-130	2
Bromoform	ug/L (ppb)	10	105	103	50-157	2
n-Propylbenzene	ug/L (ppb)	10	108	106	70-130	2
Bromobenzene	ug/L (ppb)	10	109	106	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	107	108	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	115	118	70-130	3
1,2,3-Trichloropropane	ug/L (ppb)	10	103	105	70-130	2
2-Chlorotoluene	ug/L (ppb)	10	109	105	70-130	4
4-Chlorotoluene	ug/L (ppb)	10	108	105	70-130	3
tert-Butylbenzene	ug/L (ppb)	10	108	105	70-130	3
1,2,4-Trimethylbenzene	ug/L (ppb)	10	109	106	70-130	3
sec-Butylbenzene	ug/L (ppb)	10	109	108	70-130	1
p-Isopropyltoluene	ug/L (ppb)	10	108	108	70-130	0
1,3-Dichlorobenzene	ug/L (ppb)	10	106	105	70-130	1
1,4-Dichlorobenzene	ug/L (ppb)	10	108	106	70-130	2
1,2-Dichlorobenzene	ug/L (ppb)	10	106	103	70-130	3
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	115	106	70-130	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	99	99	70-130	0
Hexachlorobutadiene	ug/L (ppb)	10	102	103	70-130	1
Naphthalene	ug/L (ppb)	10	101	100	70-130	1
1,2,3-Trichlorobenzene	ug/L (ppb)	10	98	97	69-143	1

Date of Report: 03/24/23
Date Received: 03/16/23
Project: SRM Development Bellevue-471241 193460, F&BI 303256

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 10)
1,2-Dibromoethane	ug/L (ppb)	0.10	102	103	70-130	1

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, biased high; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

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

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

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

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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

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

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

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

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

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

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

303256

SAMPLE CHAIN OF CUSTODY 03/16/23

I4/L3/VW3

Page # 1 of 1

Report To Joe Sherrod

Company TRC

Address 1180 NW Maple St, Ste 310

City, State, ZIP Issaquah, WA 98027

Phone 425-395-0010 Email JSherrod@TRCcompanies.com

SAMPLERS (*signature*) Austin York

PROJECT NAME: SRM Development Bellevue - 471241

PO # 193460

REMARKS: Total Metals per JW 3/16/23 ME

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- ☑ Standard turnaround
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Archive samples
- ☐ Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8260 ~~8021~~	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	Arsenic EPA 6020	RCRA-8 EPA 6020B (6010C)	NWTPH-Dx with SGC	MTBE EPA 8260C	EDB EPA 8011B	Notes
MW-9	01 A-H	3-15-23	1015	water	8	X	X			X				X	X	X	X	
MW-7	02		1008		9	X	X			X				X	X	X	X	
MW-4R	03		1112		8	X	X	X					X		X			
MW-6	04		1149		8	X	X	X					X		X			
MW-5R	05 A-G		1245		7	X	X	X					X		X			
MW-1	06 A-H		1249		8	X	X	X					X		X			
MW-2	07		1351		8	X	X	X					X		X			
DUP-01	08	3-15-23	—	water	8	X	X	X					X		X			
									Samples received at 4 °C									

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Jill Windsor	TRC	03-16-23	1530
Received by:	Michael Erdahl	FB Inc	3/16/23	0635
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
Ph. (206) 285-8282

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

July 5, 2023

Joe Sherrod, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: SRM Development 471241 202503, F&BI 306372

Dear Mr Sherrod:

Included are the results from the testing of material submitted on June 23, 2023 from the SRM Development 471241 202503, F&BI 306372 project. There are 31 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl
Project Manager

Enclosures
c: Cynthia Moon
TRC0705R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on June 23, 2023 by Friedman & Bruya, Inc. from the TRC Environmental SRM Development 471241 202503, F&BI 306372 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
306372-01	MW-7
306372-02	MW-8
306372-03	MW-4R
306372-04	MW-6
306372-05	MW-5R
306372-06	MW-1
306372-07	MW-2
306372-08	DUP-01

The 8260D calibration standard exceeded the acceptance criteria for several analytes. The compounds were not detected, therefore this did not represent an out of control condition.

All quality control requirements were acceptable.

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372
Date Extracted: 06/26/23
Date Analyzed: 06/26/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
MW-7 306372-01	<100	114
MW-8 306372-02	<100	110
MW-4R 306372-03	<100	122
MW-6 306372-04	<100	116
MW-5R 306372-05	<100	119
MW-1 306372-06	<100	108
MW-2 306372-07	<100	111
DUP-01 306372-08	<100	114
Method Blank 03-1400 MB	<100	111

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372
Date Extracted: 06/23/23
Date Analyzed: 06/27/23 and 06/30/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
MW-7 306372-01	<50	<250	113
MW-8 306372-02	<50	<250	113
MW-4R 306372-03	<50	<250	113
MW-6 306372-04	<50	<250	119
MW-5R 306372-05	<50	<250	121
MW-1 306372-06	<50	<250	122
MW-2 306372-07	<50	<250	109
DUP-01 306372-08	<50	<250	108
Method Blank 03-1505 MB	<50	<250	122

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372
Date Extracted: 06/23/23
Date Analyzed: 06/23/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 50-150)
MW-7 306372-01	<50	<250	120
MW-8 306372-02	190 x	<250	119
MW-4R 306372-03	61 x	<250	115
MW-6 306372-04	100 x	<250	112
MW-5R 306372-05	540 x	430 x	119
MW-1 306372-06	250 x	<250	113
MW-2 306372-07	200 x	<250	116
DUP-01 306372-08	56 x	<250	114
Method Blank 03-1505 MB	<50	<250	118

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-7	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-01
Date Analyzed:	06/23/23	Data File:	306372-01.108
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	28.8
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-8	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-02
Date Analyzed:	06/23/23	Data File:	306372-02.109
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.96
Barium	46.8
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	1.07
Silver	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-4R	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-03
Date Analyzed:	06/23/23	Data File:	306372-03.110
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.13

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-6	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-04
Date Analyzed:	06/23/23	Data File:	306372-04.118
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-5R	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-05
Date Analyzed:	06/23/23	Data File:	306372-05.119
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	6.07

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-1	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-06
Date Analyzed:	06/23/23	Data File:	306372-06.120
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	11.9

Analysis For Total Metals By EPA Method 6020B

Client ID:	MW-2	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-07
Date Analyzed:	06/23/23	Data File:	306372-07.121
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.9

Analysis For Total Metals By EPA Method 6020B

Client ID:	DUP-01	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	306372-08
Date Analyzed:	06/23/23	Data File:	306372-08.122
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.03

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	SRM Development 471241 202503
Date Extracted:	06/23/23	Lab ID:	I3-506 mb2
Date Analyzed:	06/23/23	Data File:	I3-506 mb2.106
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-7	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-01
Date Analyzed:	06/26/23	Data File:	062617.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5 k	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20 k	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-8	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-02
Date Analyzed:	06/26/23	Data File:	062614.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5 k	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20 k	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-4R	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-03
Date Analyzed:	06/26/23	Data File:	062618.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	90	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-6	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-04
Date Analyzed:	06/26/23	Data File:	062619.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	104	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-5R	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-05
Date Analyzed:	06/26/23	Data File:	062620.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	87	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-06
Date Analyzed:	06/26/23	Data File:	062621.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	71	132
Toluene-d8	100	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-2	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-07
Date Analyzed:	06/26/23	Data File:	062622a.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	DUP-01	Client:	TRC Environmental
Date Received:	06/23/23	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	306372-08
Date Analyzed:	06/26/23	Data File:	062623.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	84	71	132
Toluene-d8	88	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	SRM Development 471241 202503
Date Extracted:	06/26/23	Lab ID:	03-1464 mb
Date Analyzed:	06/26/23	Data File:	062608.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	89	71	132
Toluene-d8	86	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.02	Dibromochloromethane	<0.5
Bromomethane	<5 k	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50 k	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<5	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<5
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<0.2
2-Butanone (MEK)	<20 k	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<0.2	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<0.5	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<0.5	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<0.5	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<0.4	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<0.5
trans-1,3-Dichloropropene	<0.4	Naphthalene	<1
1,1,2-Trichloroethane	<0.5	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372
Date Extracted: 06/26/23
Date Analyzed: 06/26/23

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED
Results Reported as µg/L (ppb)

Sample ID Laboratory ID	EDB
MW-7 306372-01	<0.01
MW-8 306372-02	<0.01
Method Blank	<0.01

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: 306372-01 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	99	70-130

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	100	72-139	8

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	96	72-139	8

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: 306365-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	1.14	98	100	75-125	2
Barium	ug/L (ppb)	50	6.66	103	106	75-125	3
Cadmium	ug/L (ppb)	5	<1	97	99	75-125	2
Chromium	ug/L (ppb)	20	<1	92	95	75-125	3
Lead	ug/L (ppb)	10	<1	86	88	75-125	2
Mercury	ug/L (ppb)	5	<1	88	91	75-125	3
Selenium	ug/L (ppb)	5	<1	104	106	75-125	2
Silver	ug/L (ppb)	5	<1	93	95	75-125	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	99	80-120
Barium	ug/L (ppb)	50	102	80-120
Cadmium	ug/L (ppb)	5	98	80-120
Chromium	ug/L (ppb)	20	93	80-120
Lead	ug/L (ppb)	10	92	80-120
Mercury	ug/L (ppb)	5	94	80-120
Selenium	ug/L (ppb)	5	106	80-120
Silver	ug/L (ppb)	5	97	80-120

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: 306372-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	66	27-164
Chloromethane	ug/L (ppb)	10	<10	47	34-141
Vinyl chloride	ug/L (ppb)	10	<0.02	61	16-176
Bromomethane	ug/L (ppb)	10	<5	78	10-193
Chloroethane	ug/L (ppb)	10	<1	84	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	87	50-150
Acetone	ug/L (ppb)	50	<50	60	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	86	50-150
Hexane	ug/L (ppb)	10	<5	107	49-161
Methylene chloride	ug/L (ppb)	10	<5	85	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	78	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	92	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	93	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	109	62-152
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	97	50-150
Chloroform	ug/L (ppb)	10	<1	109	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	92	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	111	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	104	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	102	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	109	50-150
Benzene	ug/L (ppb)	10	<0.35	94	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	105	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	107	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	120	50-150
Dibromomethane	ug/L (ppb)	10	<1	115	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	118	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	118	48-145
Toluene	ug/L (ppb)	10	<1	109	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	115	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	117	50-150
2-Hexanone	ug/L (ppb)	50	<10	108	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	112	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	118	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	125	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	119	50-150
Chlorobenzene	ug/L (ppb)	10	<1	119	50-150
Ethylbenzene	ug/L (ppb)	10	<1	117	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	124	50-150
m,p-Xylene	ug/L (ppb)	20	<2	118	50-150
o-Xylene	ug/L (ppb)	10	<1	116	50-150
Styrene	ug/L (ppb)	10	<1	121	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	122	50-150
Bromoform	ug/L (ppb)	10	<5	114	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	117	50-150
Bromobenzene	ug/L (ppb)	10	<1	116	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	122	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	123	57-162
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	111	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	119	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	120	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	119	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	119	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	120	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	120	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	117	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	119	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	114	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	109	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	116	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	117	42-150
Naphthalene	ug/L (ppb)	10	<1	111	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	113	44-155

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	10	107	106	49-149	1
Chloromethane	ug/L (ppb)	10	96	95	34-143	1
Vinyl chloride	ug/L (ppb)	10	96	99	43-149	3
Bromomethane	ug/L (ppb)	10	134	134	28-182	0
Chloroethane	ug/L (ppb)	10	127	126	59-157	1
Trichlorofluoromethane	ug/L (ppb)	10	109	106	59-141	3
Acetone	ug/L (ppb)	50	75	74	20-139	1
1,1-Dichloroethene	ug/L (ppb)	10	108	107	67-138	1
Hexane	ug/L (ppb)	10	97	100	50-161	3
Methylene chloride	ug/L (ppb)	10	100	103	29-192	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	104	104	70-130	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	103	104	70-130	1
1,1-Dichloroethane	ug/L (ppb)	10	103	104	70-130	1
2,2-Dichloropropane	ug/L (ppb)	10	115	115	71-148	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	108	109	70-130	1
Chloroform	ug/L (ppb)	10	107	106	70-130	1
2-Butanone (MEK)	ug/L (ppb)	50	92	91	50-157	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	113	113	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	108	109	70-130	1
1,1-Dichloropropene	ug/L (ppb)	10	106	107	70-130	1
Carbon tetrachloride	ug/L (ppb)	10	114	114	70-130	0
Benzene	ug/L (ppb)	10	100	101	70-130	1
Trichloroethene	ug/L (ppb)	10	101	102	70-130	1
1,2-Dichloropropane	ug/L (ppb)	10	95	97	70-130	2
Bromodichloromethane	ug/L (ppb)	10	109	107	70-130	2
Dibromomethane	ug/L (ppb)	10	106	104	70-130	2
4-Methyl-2-pentanone	ug/L (ppb)	50	98	98	70-130	0
cis-1,3-Dichloropropene	ug/L (ppb)	10	107	106	70-130	1
Toluene	ug/L (ppb)	10	100	98	70-130	2
trans-1,3-Dichloropropene	ug/L (ppb)	10	102	98	70-130	4
1,1,2-Trichloroethane	ug/L (ppb)	10	98	95	70-130	3
2-Hexanone	ug/L (ppb)	50	87	86	66-132	1
1,3-Dichloropropane	ug/L (ppb)	10	100	98	70-130	2
Tetrachloroethene	ug/L (ppb)	10	106	104	70-130	2
Dibromochloromethane	ug/L (ppb)	10	109	107	63-142	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	102	100	70-130	2
Chlorobenzene	ug/L (ppb)	10	100	98	70-130	2
Ethylbenzene	ug/L (ppb)	10	99	97	70-130	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	107	105	70-130	2
m,p-Xylene	ug/L (ppb)	20	99	98	70-130	1
o-Xylene	ug/L (ppb)	10	99	96	70-130	3
Styrene	ug/L (ppb)	10	100	100	70-130	0
Isopropylbenzene	ug/L (ppb)	10	103	100	70-130	3
Bromoform	ug/L (ppb)	10	106	102	50-157	4
n-Propylbenzene	ug/L (ppb)	10	96	96	70-130	0
Bromobenzene	ug/L (ppb)	10	102	100	70-130	2
1,3,5-Trimethylbenzene	ug/L (ppb)	10	100	99	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	104	105	75-140	1
1,2,3-Trichloropropane	ug/L (ppb)	10	97	95	40-153	2
2-Chlorotoluene	ug/L (ppb)	10	97	99	70-130	2
4-Chlorotoluene	ug/L (ppb)	10	97	97	70-130	0
tert-Butylbenzene	ug/L (ppb)	10	101	100	70-130	1
1,2,4-Trimethylbenzene	ug/L (ppb)	10	98	96	70-130	2
sec-Butylbenzene	ug/L (ppb)	10	98	98	70-130	0
p-Isopropyltoluene	ug/L (ppb)	10	98	99	70-130	1
1,3-Dichlorobenzene	ug/L (ppb)	10	100	98	70-130	2
1,4-Dichlorobenzene	ug/L (ppb)	10	101	100	70-130	1
1,2-Dichlorobenzene	ug/L (ppb)	10	98	101	70-130	3
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	93	94	70-130	1
1,2,4-Trichlorobenzene	ug/L (ppb)	10	95	96	70-130	1
Hexachlorobutadiene	ug/L (ppb)	10	95	102	70-130	7
Naphthalene	ug/L (ppb)	10	94	95	61-133	1
1,2,3-Trichlorobenzene	ug/L (ppb)	10	93	91	69-143	2

Date of Report: 07/05/23
Date Received: 06/23/23
Project: SRM Development 471241 202503, F&BI 306372

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR 1,2-DIBROMOETHANE (EDB) BY EPA METHOD 8011 MODIFIED

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 10)
1,2-Dibromoethane	ug/L (ppb)	0.10	111	113	70-130	2

Data Qualifiers & Definitions

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

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

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

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

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

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

k – The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

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

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

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

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

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

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

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

306372

SAMPLE CHAIN OF CUSTODY

06/23/23

UW5/L3/I3

Page # 1 of

Report To Joe Shemod

Company TRC

Address 1180 NW Maple Street suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email jshemod cmoon@trccompanies.com

SAMPLERS (signature)

PROJECT NAME: SRM Development 471241

PO #: 202503

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
- [x] Standard turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Archive samples
- [ ] Other
- Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED: NWTPH-Dx *	NWTPH-Gx	BTEX EPA 8260 (8021)	NWTPH-HCID	VOCs EPA 8260C **	PAHs EPA 8270	PCBs EPA 8082	1,2 EDB by EPA 8011B	RCRA 8 Metals	Arsenic EPA 6020		Notes
MW-7	01 A-H	6-21-2023	1050	water	8	X	X			X			X	X			*w/ + w/o SGC
MW-8	02		1105		8	X	X			X			X	X			**: + MTBE by EPA 8260C
MW-4R	03 A-F		1152		6	X	X	X							X		
MW-6	04 A-H		1215		8	X	X	X							X		
MW-5R	05 A-F		1410		6	X	X	X							X		
MW-1	06 A-H		1430		8	X	X	X							X		
MW-2	07 A-H		1510		8	X	X	X							X		
DUP-01	08 A-F	6-21-2023		water	6	X	X	X							X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Jill Windsor	Jill Windsor	TRC	06-22-23	1415
Received by:	Michael Erdahl	F&B	6/23/23	0645
Relinquished by:				
Received by:		Samples received at 4 °C		

Friedman & Bruya, Inc.
Ph. (206) 285-8282