1180 NW Maple St., Suite 310
Issaquah, WA 98027
T 425.395.0010
TRCcompanies.com

October 26, 2021

Ms. Mindy Collins and Mr. Paul Bianco
Hazardous Waste & Toxics Reduction
Washington State Department of Ecology
Northwest Regional Office
5700 Dayton Avenue North
Shoreline, WA 98133

Re: Request for Contained-In Determination
Totem Commercial Center Redevelopment Project
12700 and 12704 NE 124th Street
Kirkland, Washington

Project No.: 450521.0001.0000

Dear Ms. Collins and Mr. Bianco:

On behalf of American Property Development (APD), TRC Environmental Corporation (TRC) is requesting a contained-in determination (CID) for excavated waste soils that will be generated during redevelopment at the Totem Commercial Center Redevelopment Project located at 12700 and 12704 NE 124th Street in Kirkland, Washington (Property or Site). APD will be purchasing the Property in November and will be the owner of the Site when the remedial action takes place. The location of the Site is shown on Figure 1.

This CID request is in support of APD's ongoing efforts to comply with the requirements of the Model Toxics Control Act (70.105D RCW) and its implementing regulations (Washington Administrative Code [WAC] 173-340), collectively referred to as "MTCA," the Washington Dangerous Waste Regulations (WAC 173-303), other applicable regulations, and Washington State Department of Ecology (Ecology) guidance and policies.

This CID request is for soil impacted by low level concentrations of tetrachloroethene (PCE) that will be excavated as part of pending redevelopment at the Property. The impacted soils will be excavated from a limited area of the Property and will be disposed off-Site. This remedy is expected to generate 150 tons of soil impacted by low concentrations of PCE. This CID will allow the PCE-impacted soil to be disposed as non-hazardous waste. Additional supporting details are provided below.

SITE DESCRIPTION

The Property is located at 12700 and 12704 NE 124th Street in Kirkland, Washington, and occupies approximately 4.59 acres in a commercial use area with the following King County tax assessor parcel numbers:

- 282605-9039 and 282604-9059

The Property includes two large warehouse structures that are divided into multiple suites. The various suites have been occupied by a wide variety of commercial operations including automotive service related, towing, sheet metal fabrication, and formerly circuit board manufacture. The Property was originally developed in the early 1900s with residential structures. The residential structures and associated outbuildings were removed from the Property in the last 1960s prior to construction of the two large warehouse structures currently on the Property in 1968 (southern structure) and 1972 (northern structure).

The Site is a small area located adjacent to the north side of the southern warehouse in the area of a hydraulic lift. The source of PCE appears to have been minor surface discharges of degreaser used during vehicle or lift maintenance (additional detail provided below).

PROPERTY OWNER INFORMATION

Property Owner
American Property Development
15 Lake Bellevue Drive, Suite 200
Bellevue, WA 98005
Contact: David Sinnett / Sean Thorson.
425-709-0756

Environmental Consultant
TRC Environmental Corporation
1180 Northwest Maple Street, Suite 310
Issaquah, WA 98027
Contact: Keith Woodburne, L.G.
415-497-1947

BACKGROUND

APD retained TRC to perform a Phase II Environmental Site Assessment (Phase II ESA) of the Property. A Phase I ESA of the Property had previously been completed by Kane Environmental (Kane) on August 2, 2021. The Phase I ESA identified two recognized environmental conditions (RECs): the former presence of Circuit Technology (a circuit board manufacturer) and aboveground storage tanks (ASTs) inside the Quality Towing suites in the western portion of the northern building. During a reconnaissance visit by TRC in preparation for the Phase II ESA, TRC identified the following four additional RECs:

- A former dry-cleaning facility (Classy Cleaners) located at 12707 NE 124th Street located at an inferred upgradient position;

- A Les Schwab Tire facility located at 12410 128th Lane NE located at an inferred upgradient position;

- An area of oil staining with absorbent material in front of the Quality Towing Suite No. 25 on the south side of the northern building; and

- An area of oil staining and absorbent material beneath a hydraulic lift on the loading dock of Fireplace Supply in Suite 14 on the north side of the southern building.

APD retained TRC to conduct a Phase II ESA to assess the potential presence of impacts related to the above-listed RECs.

The Phase II ESA included advancing and sampling soil and groundwater from 10 borings and temporary groundwater monitoring wells in the locations indicated on Figure 2. A total of 20 soil samples were submitted for analysis from various depths between 0.5 feet and 14.5 feet below grade. The soil samples were analyzed for petroleum hydrocarbons (gasoline-, diesel-, and oil-range), volatile organic compounds (VOCs), and MTCA 5 Metals (arsenic, cadmium, chromium, lead, and mercury). The majority of the samples had no detectable analytes (Table 1, Figure 3). However, at the location of the hydraulic lift on the loading dock of the Fireplace Supply in Suite 14 (B-7) on the north side of the southernmost building, diesel-range organics (DRO) and oil-range organics (ORO) and PCE were detected in the soil samples at depths of 1 and 6 feet below grade.

The ORO concentrations at B-7:1 and B-7:6 were 5,000 milligrams per kilogram (mg/kg) and 1,100 mg/kg respectively. The sample from 1 foot exceeded the MTCA Regulation (WAC 173-340) Method A cleanup levels for soil (Soil CULs) of 2,000 mg/kg. DRO was not detected at a concentration exceeding a MTCA Soil CUL. The PCE concentrations in B-7:1 and B-7:6 were 0.32 mg/kg and 0.051 mg/kg, respectively. Both concentrations only slightly exceeded the MTCA Soil CUL of 0.05 mg/kg, and concentrations decreased with depth, which is consistent with a surface release.

Groundwater at the Property is present at depths of between 7 and 20 feet below grade (10 feet below grade at B-7) and is anticipated to migrate in a generally northwesterly direction. The groundwater samples were analyzed for GRO, DRO, ORO, VOCs, and MTCA 5 Metals. DRO and PCE were detected in the reconnaissance groundwater sample from B-7 but at concentrations less than applicable MTCA Method A cleanup levels for groundwater (Groundwater CULs; Table 2, Figure 4). This low concentration immediately proximal to the apparent source area further suggests only a limited release of petroleum and PCE.

These findings support a conclusion that some minor amount of petroleum hydrocarbons and PCE were released in close proximity to the lift gate at the loading dock at Suite 14, possibly as a result of routine vehicle or lift gate maintenance.

Based on this finding, APD retained TRC to perform a second phase of subsurface assessment of soil and groundwater conditions around boring B-7 to further characterize the lateral and vertical extent of PCE impacts to soil. Those data are being used for remediation planning and in support of this CID request for disposal of the PCE-impacted soils.

For the follow-up assessment TRC advanced and sampled five borings at locations surrounding and within approximately 10 feet of boring B-7 (Figure 2). Three soil samples from each boring (15 total) were collected from depths between 1 foot and 13.5 feet below grade and submitted for analysis of petroleum hydrocarbons (DRO and ORO), VOCs, and MTCA 5 Metals. Reconnaissance groundwater samples were collected form each boring and analyzed for petroleum hydrocarbons (DRO and ORO), VOCs, and total and dissolved arsenic.

PCE was only detected in the 1-foot sample from boring B-12 (Figure 5) at a concentration of 0.064 mg/kg, which only slightly exceeds the MTCA Soil CUL of 0.05 mg/kg. ORO was detected in soil in two samples at concentration oof 1,900 mg/kg and 640 mg/kg, which are less than the MTCA Soil CUL of 2,000 mg/kg. DRO in one sample at a concentration of 110 mg/kg, which is considerably less than the MTCA Soil CUL of 2,000 mg/kg.

None of the five additional groundwater samples contained any detectable concentrations of ORO, DRO, PCE or other VOCs (Figure 6).

A copy of the boring logs from the two phases of field investigation are included as Attachment A. Laboratory analytical reports are included as Attachment B.

These findings continued to indicate that the source of release was near B-7 and that the lateral and vertical extent of impacts had been well characterized by the assessment.

The findings of the investigations concluded that a maximum of about 150 tons of soil at the Site are impacted with low concentrations of PCE ranging from 0.051 mg/kg to 0.32 mg/kg. None of the reported concentrations exceed the threshold for a CID, as described below.

PLANNED REDEVELOPMENT ACTIONS

APD intends to redevelop the Property with residential over-podium parking with a maximum depth of excavation of between 5 and 10 feet below the current grade. All excavated soils will be transported off-Site for disposal. The PCE-impacted soil at the Site will be removed as a component of redevelopment. At the completion of remedial actions APD will seek a No Further Action (NFA) determination from Ecology through the Voluntary Cleanup Program (VCP).

The estimated lateral extent of PCE-impacted soil exceeding the applicable cleanup level and detection limits is depicted on Figure 5. The estimated lateral extent of PCE-impacted soil to be excavated during the remedial action is depicted on Figure 7. Figure 8 presents a cross-section through the area of excavation, indicating the construction excavation depth and the estimated extent of PCE-impacted soil along that section.

During redevelopment-related activities, remedial action for the PCE-impacted soils will be conducted by direct loading into plastic lined and covered trucks and directly transported to the licensed landfill for off-Site disposal in accordance with the requirements of the CID. Under the requested CID it is currently

anticipated that the excavated soil will be disposed at the Waste Management Wenatchee Subtitle D landfill located near Wenatchee, Washington. If it is decided that it would be more cost-effective to transport the soil to Waste Management's Arlington Oregon facility or Republic Services' Roosevelt, Washington facility, then the soil will be loaded into bins and the bins will be transported directly to the facility on rail cars. All transportation would be in conformance with the requirements of the CID.

The remedial action will incorporate the necessary compliance monitoring required under MTCA (WAC 173-340-410), which will include soil sampling and analysis to determine compliance with cleanup standards and the terminal limits of the excavation. The completed remedial action will be documented in a Cleanup Action Report, also as required by MTCA, and the Site will be enrolled in the Ecology VCP in support of an NFA request. All excavated material with detectable concentrations of PCE or other related compounds will be transported off-Site for disposal under the CID.

If additional PCE-impacted soil, beyond the 150 tons estimated herein are encountered, TRC and APD will request an additional CID authorization for those soils in advance of any off-Site transport or disposal.

Remedial actions are expected to begin as early as February 2022 and would be completed in less than a week.

REQUEST FOR CONTAINED-IN DETERMINATION

The PCE-impacted soil at the Site would normally carry a Resource Conservation and Recovery Act (RCRA) F002 waste code. TRC is requesting that Ecology grant a CID for the impacted soils at the Site, which would exempt the generated waste from the F002 waste code. As noted previously, the highest PCE concentration reported in soil samples collected from the Site is 0.32 mg/kg. The Universal Treatment Standard (UTS) for PCE in soil is 6 mg/kg, indicating that the soil will meet the EPA Land Disposal Requirements (LDRs).

The PCE concentrations for all 17 soil samples analyzed between the surface and 13.5 feet below grade were significantly less than the UTS concentration of 6 mg/kg. It is TRC's opinion that the 17 soil samples are adequate to properly characterize and define the extent of impacted soils. Additional samples collected for performance sampling during excavation will serve to confirm that the PCE concentrations remain within the allowable limits of the CID.

The soils at the Site do not designate as a characteristic hazardous waste under WAC 173-303-90. Relative to the toxicity characteristic, a Toxicity Characteristic Leaching Procedure (TCLP) test was not required based on the maximum PCE concentration. The TCLP test uses a 20:1 mass-to-mass sample dilution. A sample must have at least 20 times the toxicity characteristic threshold value for the TCLP to produce a result exceeding the threshold. For PCE, the toxicity characteristic threshold is 0.7 milligrams per liter (mg/L). A minimum PCE concentration of 14 mg/kg would be required to generate that value if all PCE in soil were transferred to leachate. At a maximum concentration of 0.32 mg/kg, the maximum concentration that could possibly be present in the TCLP leachate is 0.016 mg/L, which is considerably less than the hazardous waste threshold.

Additionally, there is no reason to suspect that the excavated soils would be designated as a hazardous waste based on the other characteristics. At the maximum concentration observed, the presence of PCE in soil would have no effect on soil properties relative to native and natural soils. PCE is not ignitable (PCE is non-flammable), or corrosive (PCE does not have a low or high pH in an aqueous solution), or reactive (PCE is generally inert).

The soil also does not designate as Washington State special waste under WAC 173-303-100. The maximum PCE concentration is 0.32 mg/kg or 0.0000032 percent. Without adjusting for Toxic Category, the 0.0000032 percent value is already lower than the adjusted 0.001 percent threshold for designation at a WT02 Special Waste. PCE has a Toxic Category of D based on the Rat Inhalation LC_{50} of 26 milligrams/Liter (mg/L). After adjusting for the Toxic Category, the adjusted concentration is 1×10^{-8} percent.

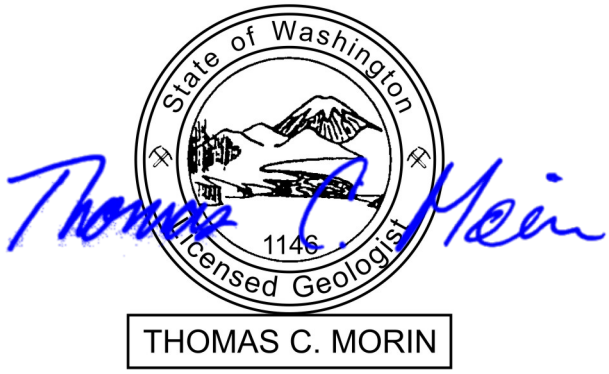
Based on the above information, there are sufficient data to show that the waste characteristics of the soils to be excavated neither designate as a Characteristic Waste under WAC 173-303-90 or as a Dangerous Waste under WAC 173-303-100 and should be granted a CID.

If at any time during the remedial action *in situ* PCE soil concentrations are found during the performance and compliance sampling to be greater than 6 mg/kg, those soils will be segregated and disposed as hazardous waste at a Subtitle C landfill carrying the F002 waste code.

The PCE-impacted soils are expected to be excavated starting as early as February 2022. If you have any questions or comments, please contact us at your earliest convenience at the numbers below.

Sincerely,

Prepared by:
Keith L. Woodburne, L.G.
Principal Geologist
(415) 497-1947



Reviewed and approved by:
Thomas C. Morin, L.G.
Principal Geologist / PNW Area Leader
(425) 395-0030

cc: Mr. Dave Sinnet, APD
Mr. Sean Thorson, APD

ENCLOSURES

Tables

Table 1	Soil Analytical Results
Table 2	Groundwater Analytical Results

Figures

Figure 1	General Vicinity Map
Figure 2	Completed Boring Location Map
Figure 3	Soil Analytical Results – September 9-10, 2021
Figure 4	Reconnaissance Groundwater Analytical Results – September 9-10, 2021
Figure 5	Soil Analytical Results – October 7, 2021
Figure 6	Reconnaissance Groundwater Analytical Results – October 7, 2021
Figure 7	Estimated Extent of Remedial Excavation
Figure 8	Cross-Section A-A’

Attachments

Attachment A	Soil Boring Logs
Attachment B	Analytical Laboratory Reports

Tables

Table 1
Soil Analytical Results
Contained-In Determination Request
Totem Commercial Center LLC Property
12700 Northeast 124th Street, Kirkland, WA

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Petroleum Hydrocarbons			Detected Volatile Organic Compounds[c]			Total Metals[a]				
				GRO[a]	DRO[b]	ORO[b]	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic	Cadmium	Chromium	Lead	Mercury
B-1	B-1:0.5	0.5	9/9/2021	<5	**82 x**	**1,100**	<0.5	<0.025	<0.05	**3.37**	<1	**13.0**	**19.6**	<1
	B-1:10	10	9/9/2021	<10	<100	<500	<0.5	<0.025	<0.05	**2.11**	<2	**22.3**	**3.32**	<2
B-2	B-2:2.5	2.5	9/9/2021	<5	**53 x**	**660**	<0.5	<0.025	<0.05	**2.04**	<1	**14.9**	**2.28**	<1
	B-2:6	6	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.93**	<1	**16.3**	**12.2**	<1
B-3	B-3:5	5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.1**	<1	**26.7**	**4.27**	<1
	B-3:14.5	14.5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.34**	<1	**15.1**	**3.06**	<1
B-4	B-4:3	3	9/9/2021	<5	<50	**410**	<0.5	<0.025	<0.05	**3.45**	<1	**23.8**	**4.52**	<1
	B-4:7.5	7.5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**2.06**	<1	**17.3**	**2.92**	<1
B-5	B-5:7	7	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**7.53**	<1	**25.0**	**2.72**	<1
	B-5:16	16	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.96**	<1	**27.9**	**3.76**	<1
B-6	B-6:1	1	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.11**	<1	**22.4**	**3.32**	<1
	B-6:6	6	9/10/2021	<5	<50	<250	<0.5	<0.025	**0.059**	**4.24**	<1	**24.0**	**3.83**	<1
B-7	B-7:1	1	9/10/2021	<25	**490 x**	**5,000**	<0.5	**0.32**	<0.05	**2.95**	<1	**14.1**	**13.2**	<1
	B-7:6	6	9/10/2021	<5	**70 x**	**1,100**	<0.5	**0.051**	<0.05	**3.81**	<1	**18.5**	**2.56**	<1
B-8	B-8:1	1	9/10/2021	<5	<50	**610**	<0.5	<0.025	<0.05	**2.57**	<1	**15.8**	**20.3**	<1
	B-8:5	5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**2.1**	<1	**17.9**	**2.44**	<1
B-9	B-9:5	5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.2**	<1	**24.8**	**3.69**	<1
	B-9:10	10	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**5.5**	<1	**31.8**	**4.95**	<1
B-10	B-10:2	2	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**5.33**	<1	**26.1**	**6.65**	<1
	B-10:8.5	8.5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**34.4**	<1	**21.4**	**3.49**	<1
B-11	B-11:1	1	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**2.16**	<1	**15.1**	**3.07**	<1
	B-11:7	7	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**4.72**	<1	**17.3**	**1.34**	<1
	B-11:12	12	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**3.41**	<1	**17**	**2.84**	<1
B-12	B-12:1	1	10/7/2021	--	<50	**640**	<0.5	**0.064**	<0.05	**2.76**	<1	**14**	**5.13**	<1
	B-12:7.5	7.5	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**1.29**	<1	**22.1**	**1.33**	<1
	B-12:12	12	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**3.96**	<1	**18**	**3.0**	<1
B-13	B-13:1	1	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	<1	<1	**18.7**	**1.75**	<1
	B-13:7	7	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	<1	<1	**26.4**	**1.6**	<1
	B-13:12	12	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**4.18**	<1	**14.7**	**2.54**	<1
B-14	B-14:3	3	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**3.31**	<1	**11.3**	**8.98**	<1
	B-14:6	6	10/7/2021	--	**110 x**	**1,900**	<0.5	<0.025	<0.05	**3.64**	<1	**24.6**	**3.65**	<1
	B-14:12	12	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**4.15**	<1	**16.7**	**3.21**	<1
B-15	B-15:2	2	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**2.22**	<1	**15.4**	**3.16**	<1
	B-15:6	6	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**1.33**	<1	**17.4**	**1.1**	<1
	B-15:13.5	13.5	10/7/2021	--	<50	<250	<0.5	<0.025	<0.05	**3.17**	<1	**14.2**	**2.17**	<1
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses[e]				**30/100[f]**	**2,000**	**2,000**	**0.02**	**0.05**	**800[g]**	**20**	**2**	**2,000**	**250**	**2**

Notes:
All results presented in milligrams per kilogram (mg/kg).

Bold	Bold results exceed the laboratory reporting limit.
	Shaded results exceed the cleanup level.
<	Result is less than the laboratory reporting limit.
--	Sample was not analyzed for this compound.
a	Analyzed by NWTPH-Gx.
b	Analyzed by NWTPH-Dx.
c	Analyzed by EPA Method 8260D.
d	Analyzed by EPA Method 6020B.
e	Model Toxics Control Act (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1, Washington Administrative Code (WAC) 173-340-900.
f	MTCA Method A Soil Cleanup Level is 30 mg/kg when benzene is present and 100 mg/kg when benzene is not detected.
g	When no MTCA Method A established, MTCA Method B Soil Cleanup Levels (from Cleanup Levels and Risk Calculations [CLARC] spreadsheet) used. Where cleanup levels based on carcinogenic and non-carcinogenic risk were available, the lower value was listed.

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	Oill-range organics

Table 2
Groundwater Analytical Results
Contained-In Determination Request
Totem Commercial Center LLC Property
12700 Northeast 124th Street, Kirkland, WA

Sample ID	Sample Date	Petroleum Hydrocarbons			Detected Volatile Organic Compounds[c]			Metals[d]									
		GRO[a]	DRO[b]	ORO[b]	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic Total	Arsenic Dissolved	Cadmium Total	Cadmium Dissolved	Chromium Total	Chromium Dissolved	Lead Total	Lead Dissolved	Mercury Total	Mercury Dissolved
B-1:GW	9/9/2021	<100	<50	<250	<5	<1	<1	**7.79**	**4.36**	<1	<1	**8.22**	<1	**3.05**	<1	<1	<1
B-2:GW	9/9/2021	<100	<50	<250	<5	<1	<1	**43**	**5.13**	**1.46**	<1	**166**	<1	**23.6**	<1	<1	<1
B-3:GW	9/9/2021	<100	**54 x**	<250	<5	<1	<1	**39.9**	**13**	**3.42**	<1	**549**	<5	**103**	<1	<5	<1
B-4:GW	9/9/2021	<100	<50	<250	<5	<1	<1	**16.6**	**4.68**	<1	<1	**125**	<1	**15.2**	<1	<1	<1
B-5:GW hs	9/9/2021	<100	**61 x**	<270	**6.1 lc**	<1	<1	**50.5**	**7.18**	**2.2**	<1	**320**	<1	**39.1**	<1	<1	<1
B-6:GW	9/10/2021	<100	<50	<250	<5	<1	<1	**10.6**	**8.48**	<1	<1	**21.5**	<1	**1.8**	<1	<1	<1
B-7:GW	9/10/2021	<100	**96 x**	<250	<5	**1.2**	<1	**1.51**	<1	<1	<1	**5.84**	<1	<1	<1	<1	<1
B-8:GW	9/10/2021	<100	<50	<250	<5	<1	<1	**10.1**	**3.84**	<1	<1	**154**	<2	**19.8**	<1	<1	<1
B-9:GW hs	9/10/2021	<100	<54	<270	**5.4 lc**	<1	<1	**69.6**	**15.4**	**5.83**	<1	**886**	<1	**193**	<1	**1.19**	<1
B-10:GW	9/10/2021	<100	<50	<250	<5	<1	<1	**37.5**	**16.6**	<1	<1	**49.8**	<1	**14.3**	<1	<1	<1
B-11:GW	10/7/2021	--	<50	<250	<5	<1	<1	**1.47**	<1	--	--	--	--	--	--	--	--
B-12:GW	10/7/2021	--	<50	<250	<5	<1	<1	**6.34**	**1.39**	--	--	--	--	--	--	--	--
B-13:GW	10/7/2021	--	<50	<250	<5	<1	<1	**1.75**	**1.47**	--	--	--	--	--	--	--	--
B-14:GW	10/7/2021	--	<50	<250	<5	<1	<1	**2.22**	**1.61**	--	--	--	--	--	--	--	--
B-15:GW	10/7/2021	--	<50	<250	<5	<1	<1	**1.63**	<1	--	--	--	--	--	--	--	--
MTCA Method A Groundwater Cleanup Level[e]		**800/1,000[g]**	**500**	**500**	**5**	**5**	**80[g]**	**5**		**5**		**50**		**15**		**2**	

Notes:

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

Bold	Bold results exceed the laboratory reporting limit.
	Shaded results exceed the cleanup level.
<	Result is less than the laboratory reporting limit.
--	Sample was not analyzed for this compound.
a	Analyzed by NWTPH-Gx.
b	Analyzed by NWTPH-Dx.
c	Analyzed by EPA Method 8260D Duel Acquisitions.
d	Analyzed by EPA Method 6020B.
e	Model Toxics Control Act (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1, Washington Administrative Code (WAC) 173-340-900.
f	MTCA Method A Groundwater Cleanup Level is 800 µg/L when benzene is present and 1,000 µg/L when benzene is not detected.

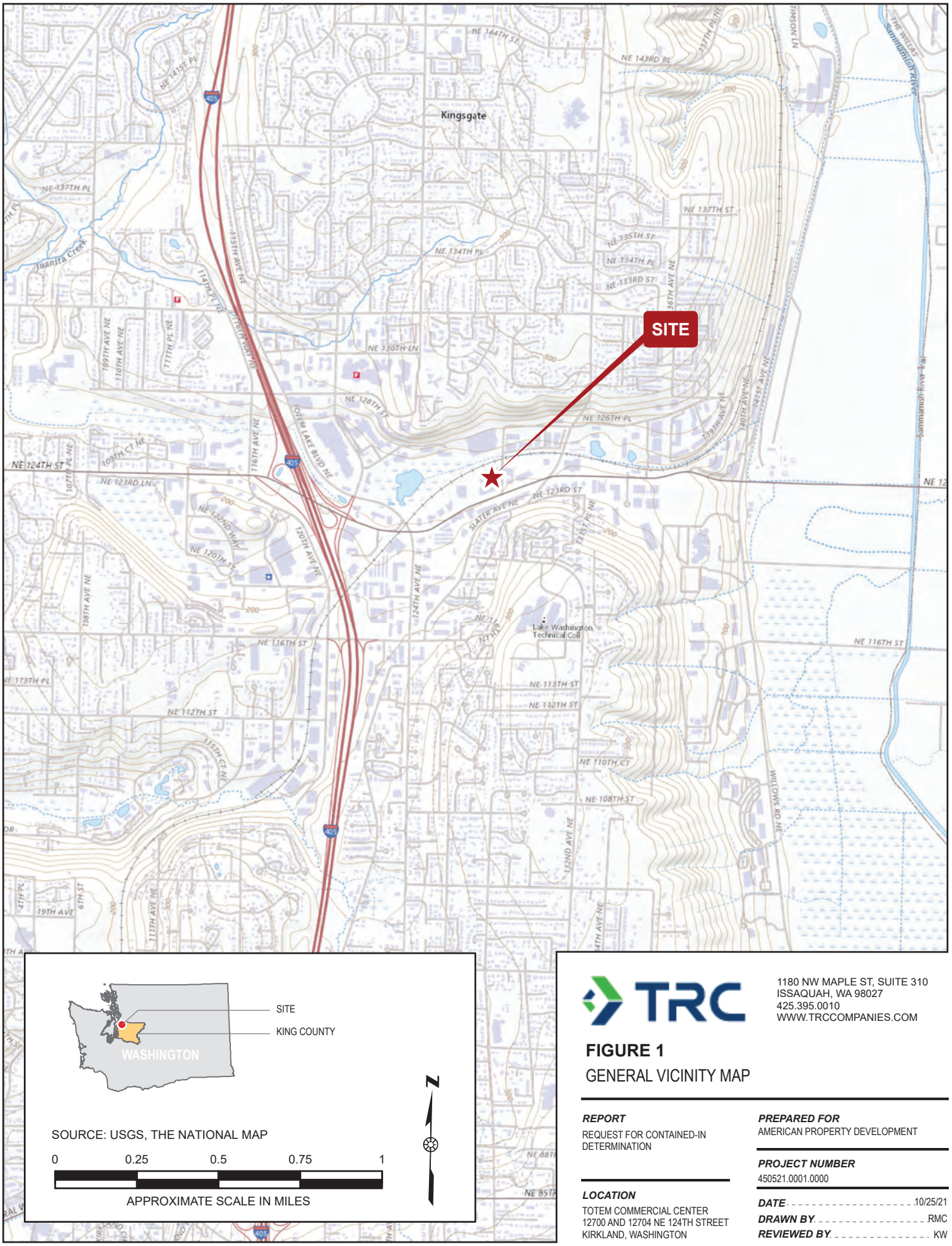
Qualifiers:

hs	Headspace was present in the container used for analysis.
lc	The presence of the analyte is likely due to laboratory contamination.
x	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Compounds:

GRO	Gasoline-range organics
DRO	Diesel-range organics
ORO	Oill-range organics

Figures



TRC

1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 1

GENERAL VICINITY MAP

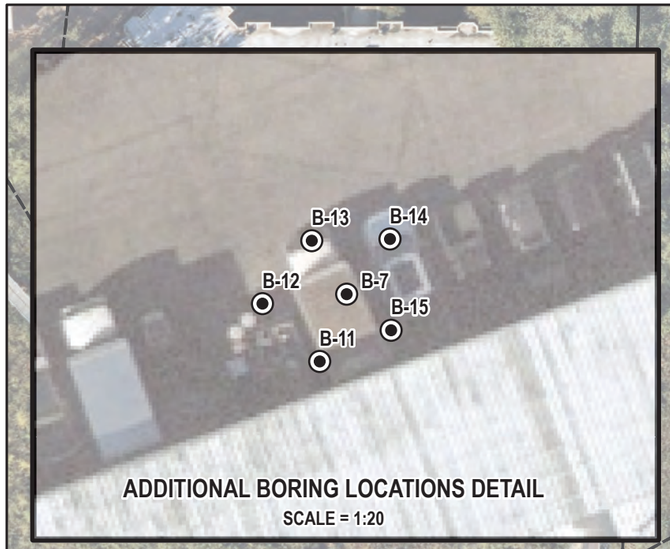
REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW



NORTHEAST 125TH WAY

CROSS KIRKLAND CORRIDOR

PARCEL NO.
282605-9059

PARCEL NO.
282605-9039

128TH LANE NORTHEAST

B-1
B-3
B-4
B-5
B-6
B-8
B-2
B-7
B-9
B-10

SEE ADDITIONAL BORING LOCATIONS DETAIL

NORTHEAST 124TH STREET

SLATER AVENUE NORTHEAST

N

100 50 0 100

APPROXIMATE SCALE IN FEET

NOTES:

BORING LOCATION

APPROXIMATE SITE BOUNDARY

APPROXIMATE SURROUNDING PARCEL BOUNDARIES

AERIAL IMAGERY: NEARMAP (9/21/21)

PARCEL BOUNDARIES AND SITE USEAGE: KING COUNTY, 2020

TRC

1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 2

COMPLETED BORING LOCATON MAP

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

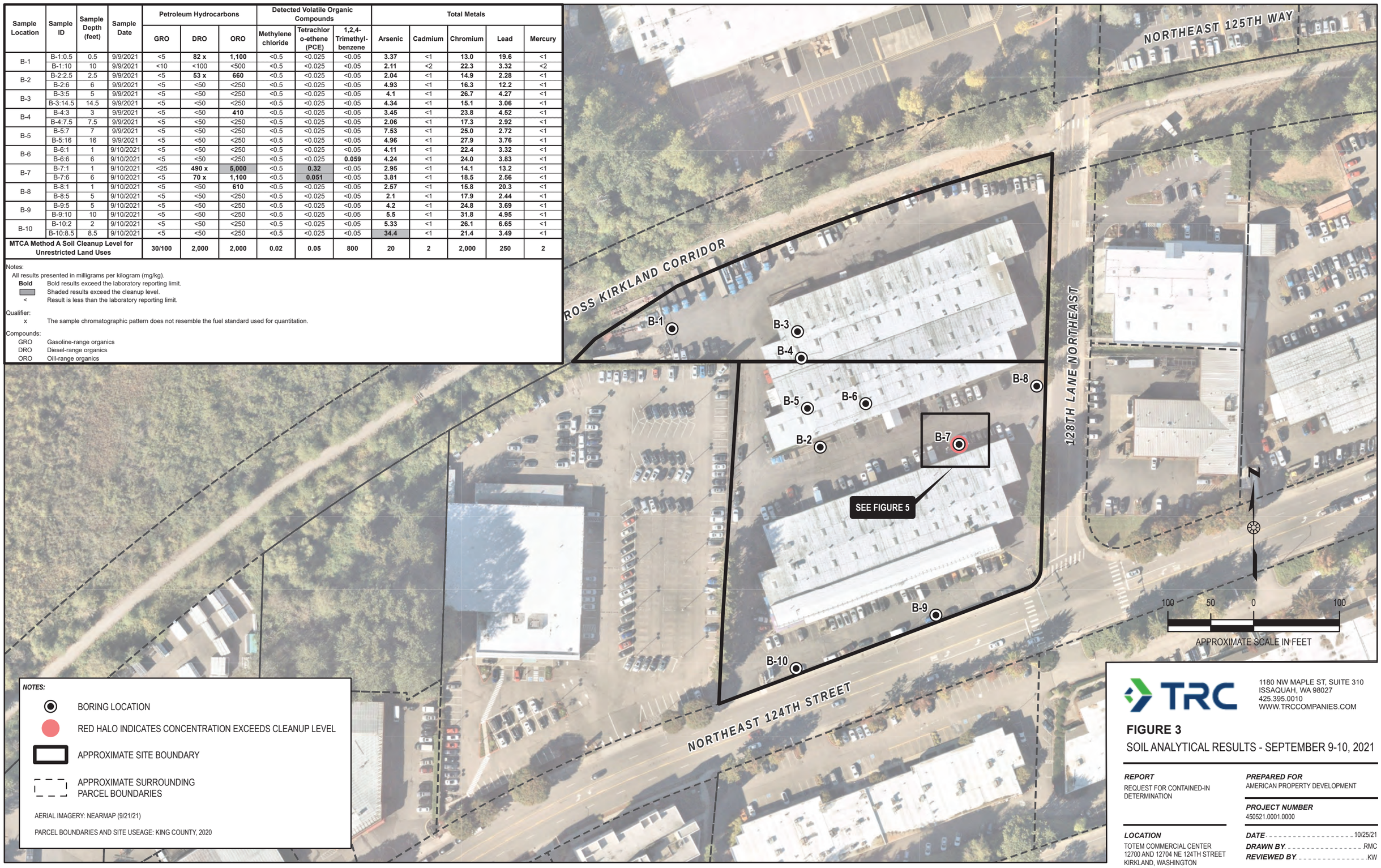
DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Petroleum Hydrocarbons			Detected Volatile Organic Compounds			Total Metals				
				GRO	DRO	ORO	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic	Cadmium	Chromium	Lead	Mercury
B-1	B-1:0.5	0.5	9/9/2021	<5	**82 x**	**1,100**	<0.5	<0.025	<0.05	**3.37**	<1	**13.0**	**19.6**	<1
	B-1:10	10	9/9/2021	<10	<100	<500	<0.5	<0.025	<0.05	**2.11**	<2	**22.3**	**3.32**	<2
B-2	B-2:2.5	2.5	9/9/2021	<5	**53 x**	**660**	<0.5	<0.025	<0.05	**2.04**	<1	**14.9**	**2.28**	<1
	B-2:6	6	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.93**	<1	**16.3**	**12.2**	<1
B-3	B-3:5	5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.1**	<1	**26.7**	**4.27**	<1
	B-3:14.5	14.5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.34**	<1	**15.1**	**3.06**	<1
B-4	B-4:3	3	9/9/2021	<5	<50	**410**	<0.5	<0.025	<0.05	**3.45**	<1	**23.8**	**4.52**	<1
	B-4:7.5	7.5	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**2.06**	<1	**17.3**	**2.92**	<1
B-5	B-5:7	7	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**7.53**	<1	**25.0**	**2.72**	<1
	B-5:16	16	9/9/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.96**	<1	**27.9**	**3.76**	<1
B-6	B-6:1	1	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.11**	<1	**22.4**	**3.32**	<1
	B-6:6	6	9/10/2021	<5	<50	<250	<0.5	<0.025	**0.059**	**4.24**	<1	**24.0**	**3.83**	<1
B-7	B-7:1	1	9/10/2021	<25	**490 x**	**5,000**	<0.5	**0.32**	<0.05	**2.95**	<1	**14.1**	**13.2**	<1
	B-7:6	6	9/10/2021	<5	**70 x**	**1,100**	<0.5	**0.051**	<0.05	**3.81**	<1	**18.5**	**2.56**	<1
B-8	B-8:1	1	9/10/2021	<5	<50	**610**	<0.5	<0.025	<0.05	**2.57**	<1	**15.8**	**20.3**	<1
	B-8:5	5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**2.1**	<1	**17.9**	**2.44**	<1
B-9	B-9:5	5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**4.2**	<1	**24.8**	**3.69**	<1
	B-9:10	10	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**5.5**	<1	**31.8**	**4.95**	<1
B-10	B-10:2	2	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**5.33**	<1	**26.1**	**6.65**	<1
	B-10:8.5	8.5	9/10/2021	<5	<50	<250	<0.5	<0.025	<0.05	**34.4**	<1	**21.4**	**3.49**	<1
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses				**30/100**	**2,000**	**2,000**	**0.02**	**0.05**	**800**	**20**	**2**	**2,000**	**250**	**2**

Notes:
All results presented in milligrams per kilogram (mg/kg).
Bold Bold results exceed the laboratory reporting limit.
Shaded results exceed the cleanup level.
< Result is less than the laboratory reporting limit.

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 Oill-range organics



NOTES:

BORING LOCATION

RED HALO INDICATES CONCENTRATION EXCEEDS CLEANUP LEVEL

APPROXIMATE SITE BOUNDARY

APPROXIMATE SURROUNDING PARCEL BOUNDARIES

AERIAL IMAGERY: NEARMAP (9/21/21)

PARCEL BOUNDARIES AND SITE USEAGE: KING COUNTY, 2020

TRC
1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 3

SOIL ANALYTICAL RESULTS - SEPTEMBER 9-10, 2021

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

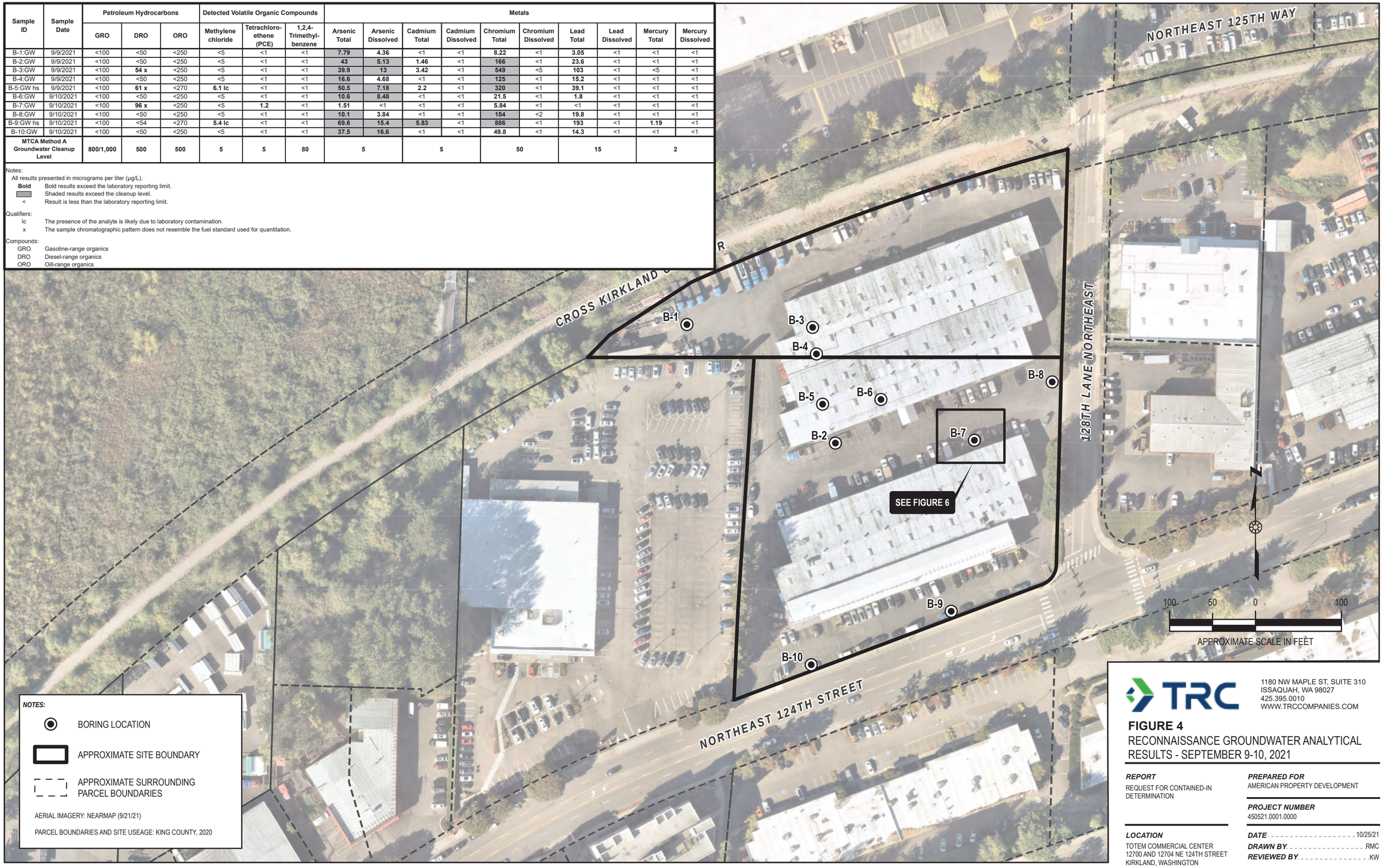
DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW

Sample ID	Sample Date	Petroleum Hydrocarbons			Detected Volatile Organic Compounds			Metals									
		GRO	DRO	ORO	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic Total	Arsenic Dissolved	Cadmium Total	Cadmium Dissolved	Chromium Total	Chromium Dissolved	Lead Total	Lead Dissolved	Mercury Total	Mercury Dissolved
B-1:GW	9/9/2021	<100	<50	<250	<5	<1	<1	7.79	4.36	<1	<1	8.22	<1	3.05	<1	<1	<1
B-2:GW	9/9/2021	<100	<50	<250	<5	<1	<1	43	5.13	1.46	<1	166	<1	23.6	<1	<1	<1
B-3:GW	9/9/2021	<100	**54 x**	<250	<5	<1	<1	39.9	13	3.42	<1	549	<5	103	<1	<5	<1
B-4:GW	9/9/2021	<100	<50	<250	<5	<1	<1	16.6	4.68	<1	<1	125	<1	15.2	<1	<1	<1
B-5:GW hs	9/9/2021	<100	**61 x**	<270	**6.1 lc**	<1	<1	50.5	7.18	2.2	<1	320	<1	39.1	<1	<1	<1
B-6:GW	9/10/2021	<100	<50	<250	<5	<1	<1	10.6	8.48	<1	<1	21.5	<1	1.8	<1	<1	<1
B-7:GW	9/10/2021	<100	**96 x**	<250	<5	**1.2**	<1	1.51	<1	<1	<1	5.84	<1	<1	<1	<1	<1
B-8:GW	9/10/2021	<100	<50	<250	<5	<1	<1	10.1	3.84	<1	<1	154	<2	19.8	<1	<1	<1
B-9:GW hs	9/10/2021	<100	<54	<270	**5.4 lc**	<1	<1	69.6	15.4	5.83	<1	886	<1	193	<1	**1.19**	<1
B-10:GW	9/10/2021	<100	<50	<250	<5	<1	<1	37.5	16.6	<1	<1	49.8	<1	14.3	<1	<1	<1
MTCA Method A Groundwater Cleanup Level		**800/1,000**	**500**	**500**	**5**	**5**	**80**	**5**		**5**		**50**		**15**		**2**	

Notes:
All results presented in micrograms per liter (µg/L).
Bold Bold results exceed the laboratory reporting limit.
Shaded results exceed the cleanup level.
< Result is less than the laboratory reporting limit.

Qualifiers:
lc The presence of the analyte is likely due to laboratory contamination.
x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Compounds:
GRO Gasoline-range organics
DRO Diesel-range organics
ORO Oill-range organics



TRC
1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 4
RECONNAISSANCE GROUNDWATER ANALYTICAL RESULTS - SEPTEMBER 9-10, 2021

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW

Sample Location	Sample ID	Sample Depth (feet)	Sample Date	Petroleum Hydrocarbons		Detected Volatile Organic Compounds			Total Metals				
				DRO	ORO	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic	Cadmium	Chromium	Lead	Mercury
B-11	B-11:1	1	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**2.16**	<1	**15.1**	**3.07**	<1
	B-11:7	7	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**4.72**	<1	**17.3**	**1.34**	<1
	B-11:12	12	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**3.41**	<1	**17**	**2.84**	<1
B-12	B-12:1	1	10/7/2021	<50	**640**	<0.5	**0.064**	<0.05	**2.76**	<1	**14**	**5.13**	<1
	B-12:7.5	7.5	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**1.29**	<1	**22.1**	**1.33**	<1
	B-12:12	12	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**3.96**	<1	**18**	**3.0**	<1
B-13	B-13:1	1	10/7/2021	<50	<250	<0.5	<0.025	<0.05	<1	<1	**18.7**	**1.75**	<1
	B-13:7	7	10/7/2021	<50	<250	<0.5	<0.025	<0.05	<1	<1	**26.4**	**1.6**	<1
	B-13:12	12	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**4.18**	<1	**14.7**	**2.54**	<1
B-14	B-14:3	3	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**3.31**	<1	**11.3**	**8.98**	<1
	B-14:6	6	10/7/2021	**110 x**	**1,900**	<0.5	<0.025	<0.05	**3.64**	<1	**24.6**	**3.65**	<1
	B-14:12	12	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**4.15**	<1	**16.7**	**3.21**	<1
B-15	B-15:2	2	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**2.22**	<1	**15.4**	**3.16**	<1
	B-15:6	6	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**1.33**	<1	**17.4**	**1.1**	<1
	B-15:13.5	13.5	10/7/2021	<50	<250	<0.5	<0.025	<0.05	**3.17**	<1	**14.2**	**2.17**	<1
MTCA Method A Soil Cleanup Level for Unrestricted Land Uses				**2,000**	**2,000**	**0.02**	**0.05**	**800**	**20**	**2**	**2,000**	**250**	**2**

Notes:
All results presented in milligrams per kilogram (mg/kg).
Bold Bold results exceed the laboratory reporting limit.
Shaded results exceed the cleanup level.
< Result is less than the laboratory reporting limit.

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 Oill-range organics

NOTES:

BORING LOCATION

RED HALO INDICATES CONCENTRATION EXCEEDS CLEANUP LEVEL

ESTIMATED EXTENT OF PCE-IMPACTED SOIL (1,500 SQUARE FEET OR 60 CUBIC YARDS)

AERIAL IMAGERY: NEARMAP (9/21/21)

PARCEL BOUNDARIES AND SITE USEAGE: KING COUNTY, 2020

TRC
1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 5

SOIL ANALYTICAL RESULTS - OCTOBER 7, 2021

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW

Sample ID	Sample Date	Petroleum Hydrocarbons		Detected Volatile Organic Compounds			Metals	
		DRO	ORO	Methylene chloride	Tetrachloro-ethene (PCE)	1,2,4-Trimethyl-benzene	Arsenic Total	Arsenic Dissolved
B-11:GW	10/7/2021	<50	<250	<5	<1	<1	**1.47**	<1
B-12:GW	10/7/2021	<50	<250	<5	<1	<1	**6.34**	**1.39**
B-13:GW	10/7/2021	<50	<250	<5	<1	<1	**1.75**	**1.47**
B-14:GW	10/7/2021	<50	<250	<5	<1	<1	**2.22**	**1.61**
B-15:GW	10/7/2021	<50	<250	<5	<1	<1	**1.63**	<1
MTCA Method A Groundwater Cleanup Level		**500**	**500**	**5**	**5**	**80**	**5**	

Notes:

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

Bold Bold results exceed the laboratory reporting limit.

Shaded results exceed the cleanup level.

< Result is less than the laboratory reporting limit.

Qualifiers:

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

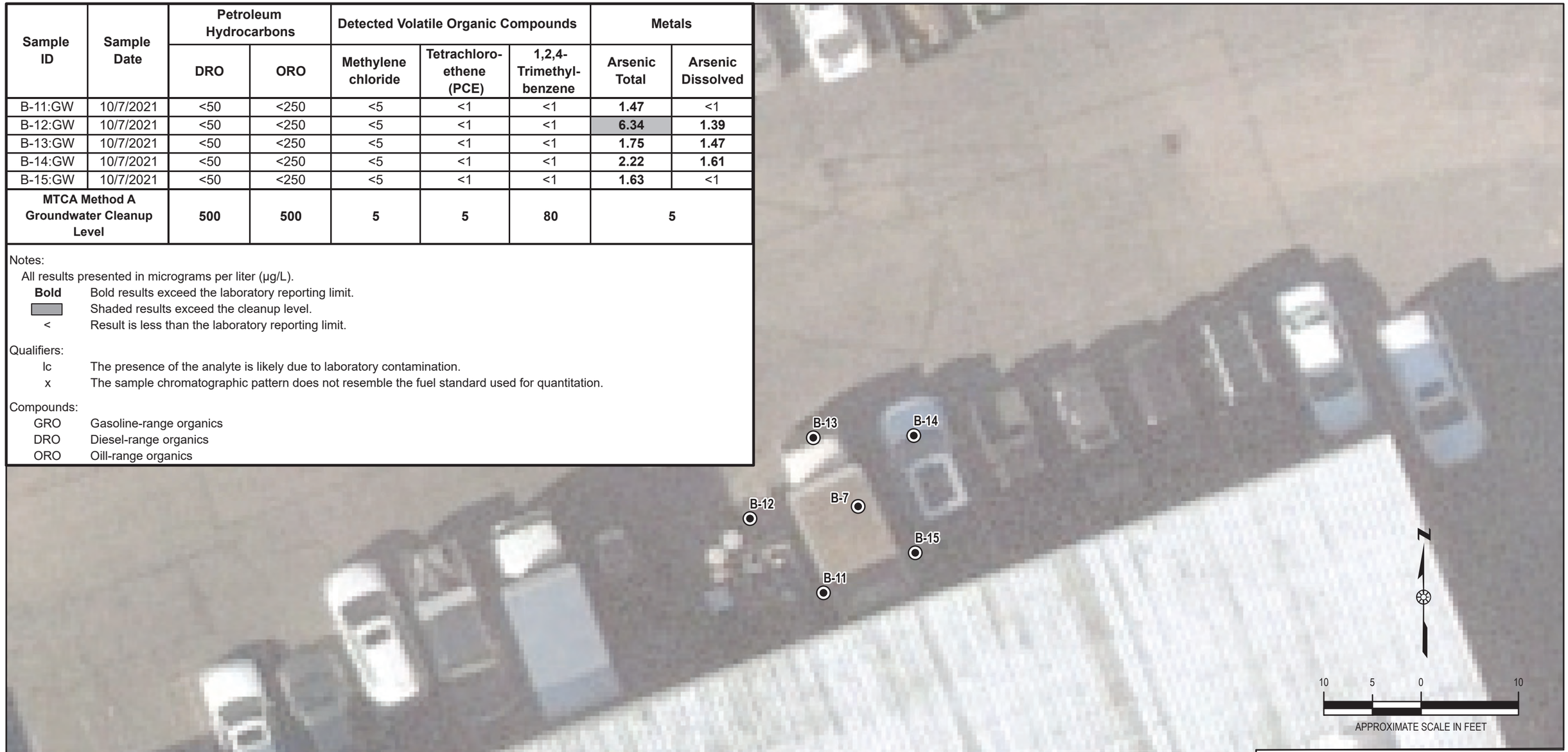
x The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Compounds:

GRO Gasoline-range organics

DRO Diesel-range organics

ORO Oill-range organics



NOTES:

BORING LOCATION

AERIAL IMAGERY: NEARMAP (9/21/21)

PARCEL BOUNDARIES AND SITE USEAGE: KING COUNTY, 2020

TRC

1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 6

RECONNAISSANCE GROUNDWATER ANALYTICAL RESULTS - OCTOBER 7, 2021

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW

NOTES:

- BORING LOCATION
- RED HALO INDICATES CONCENTRATION EXCEEDS CLEANUP LEVEL
- APPROXIMATE LIMITS OF EXCAVATION. TOTAL VOLUME OF PCE-CONTAMINATED SOIL IS 60 CUBIC YARDS
- PCE — TETRACHLOROETHENE

AERIAL IMAGERY: NEARMAP (9/21/21)

PARCEL BOUNDARIES AND SITE USEAGE: KING COUNTY, 2020

TRC
1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
425.395.0010
WWW.TRCCOMPANIES.COM

FIGURE 7

ESTIMATED EXTENT OF REMEDIAL EXCAVATION

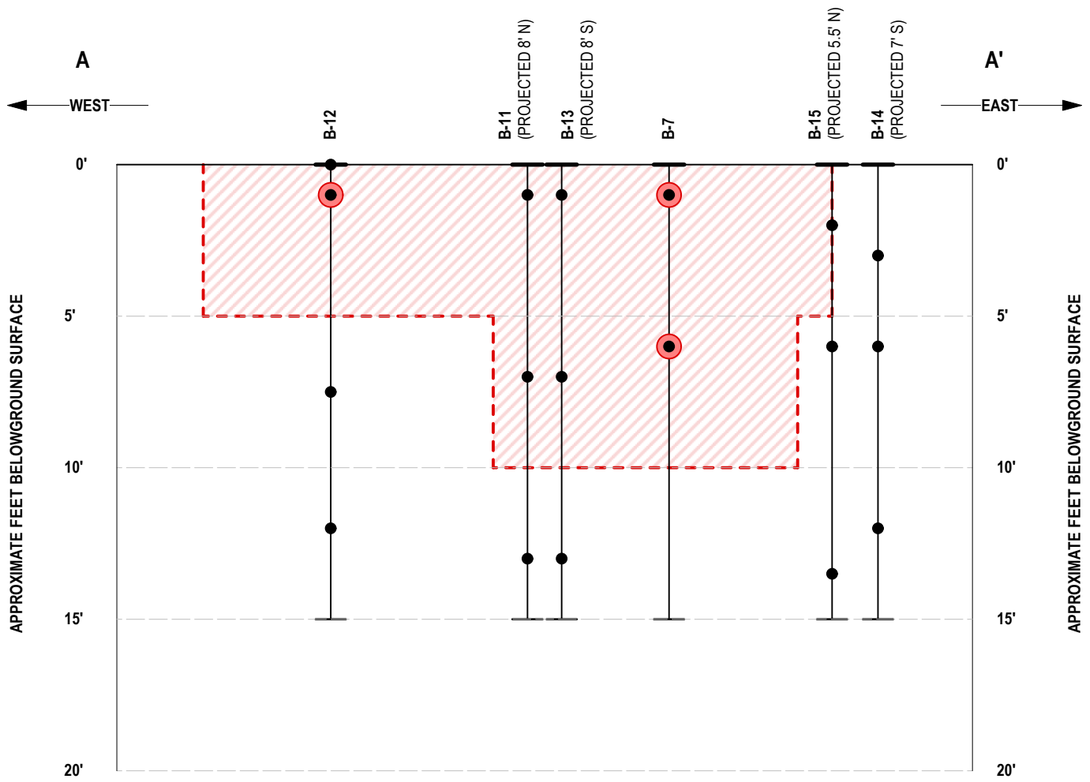
REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

PROJECT NUMBER
450521.0001.0000

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

DATE 10/25/21
DRAWN BY RMC
REVIEWED BY KW



NOTES:

SOIL BORING LOCATION

SOIL SAMPLE LOCATION

TOTAL DEPTH

INDICATES ONE OR MORE COMPOUNDS IN SOIL EXCEEDS CLEANUP LEVELS (CULs)

REMEDIAL EXCAVATION AREA

TRC

1180 NW MAPLE ST, SUITE 310
ISSAQUAH, WA 98027
WWW.TRCCOMPANIES.COM
425.395.0010

FIGURE 8

CROSS-SECTION A-A'.

REPORT
REQUEST FOR CONTAINED-IN DETERMINATION

PREPARED FOR
AMERICAN PROPERTY DEVELOPMENT

LOCATION
TOTEM COMMERCIAL CENTER
12700 AND 12704 NE 124TH STREET
KIRKLAND, WASHINGTON

PROJECT NUMBER
450521.0001.0000

DATE 10/26/21
DRAWN BY ..... VPB
REVIEWED BY ..... KW

Attachment A
Soil Boring Logs

BORING ID: B-1

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SM	Asphalt					
1		SILTY SAND WITH GRAVEL; reddish gray; dry; loose; no odor		11.5	B-1:0.5		
2	ML	SILT; bluish gray; damp; stiff; medium plasticity; no odor		0.3			
3			40	0.0			
4							
5							
6	ML	SILT; strong brown; dry; medium stiff; low plasticity; few gravel; no odor		0.4	B-1:6		
7				0.0			
8	CL	LEAN CLAY; bluish gray; damp; stiff; high plasticity; no odor	80				
9				0.1			
10	ML	SILT; strong brown; moist; stiff; medium plasticity; no odor		1.9	B-1:10		
11				1.5			
12	SP-SM	POORLY-GRADED SAND WITH SILT; bluish gray; wet; medium stiff; mostly medium-grained sand and silt; no odor		0.0	B-1:12		▼
13			90	0.0			
14	SP	POORLY-GRADED SAND; bluish gray; wet; medium stiff to loose; mostly medium-grained sand, few gravel; no odor		0.0			
15				0.0			
16				0.0			
17	SP-SM	POORLY-GRADED SAND WITH SILT; bluish gray; wet; medium stiff; mostly medium to fine-grained sand and silt; no odor		0.0			
18			100	0.0			
19				0.0			
20				0.0	B-1:20		
		End of Borehole					End of

NOTES: Groundwater sample B-1:GW collected.

BORING ID: B-2

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**

BOREHOLE SIZE: **2.25" Diameter**

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Asphalt					
1	SP	POORLY-GRADED SAND WITH GRAVEL; strong brown; dry; loose; mostly medium-grained sand and gravel, minor silt; no odor		0.0			
2			35	0.2	B-2:2.5		
3							
4	ML	SILT; dark brown; dry; medium stiff; low plasticity; organics; no odor					
5	SP-SM	POORLY-GRADED SAND WITH SILT; reddish gray; moist; low plasticity; mostly medium-grained sand and silt, minor gravel; no odor		0.0			
6				0.0	B-2:6		
7	ML	SILT; dark brown; dry; medium stiff; few organics; low plasticity; no odor	65	0.0			
8	CL	LEAN CLAY; light gray; dry; medium stiff; mostly clay, few silt, medium plasticity; no odor		0.0			
9		dark brown		0.0			
10		greenish gray		0.0			
11				0.0			
12	ML	SILT; greenish gray; dry; stiff; mostly silt; low plasticity; no odor	70	0.0			
13				0.0			
14				0.0			
15		wet; increased sand		0.0	B-2:15		▼
16		dry; very stiff; no odor		0.0			
17			100	0.0			
18				0.0			
19	SP	POORLY-GRADED SAND WITH GRAVEL; greenish gray; wet; loose; mostly coarse sand, some gravel, minor silt; no odor		0.0			
20		End of Borehole		0.0	B-2:20		End of

NOTES: Groundwater sample B-2:GW collected.

BORING ID: B-3

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP	Concrete					
1		POORLY-GRADED SAND WITH GRAVEL; brown; dry; loose; no odor		0.0			
		NO RECOVERY	5				
5	ML	SILT; bluish gray; dry; stiff; mostly silt, minor sand, trace gravel; medium plasticity; no odor		0.0	B-3:5		
6				0.0			
7			--	0.0			
8				0.0			
9	SM	SILTY SAND; greenish gray; damp; medium stiff; minor to trace gravel; low plasticity; no odor		0.0	B-3:9		
10				0.0			
11	CL	LEAN CLAY; greenish gray; dry; very stiff; mostly clay, minor silt; high plasticity; no odor		0.0			
12			100	0.0			
13				0.0			
14				0.0	B-3:14.5		▼
15	SM	SILTY SAND; bluish gray; wet; soft; mostly sand and silt; no odor		0.0			
16				0.0			
17	ML	SANDY SILT; bluish gray; moist to damp; stiff; low plasticity; no odor	100	0.0			
18				0.0			
19				0.0			
20		wet		0.0	B-3:20		
		End of Borehole					End of

NOTES: Groundwater sample B-3:GW collected.

BORING ID: B-4

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **25' bgs**

DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**

BOREHOLE SIZE: **2.25" Diameter**

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Concrete					
1	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL;light reddish brown; dry; loose; no odor		0.0			
2		SILT; bluish gray; damp; stiff; mostly silt, minor gravel; low plasticity; no odor		0.0			
3		asphalt debris; odor	60	0.0	B-4:3		
4	ML			0.0			
5		no gravel		0.0			
6		dark brown; no odor		0.0			
7	CL	LEAN CLAY; light brown to light gray; damp; soft; medium plasticity; no odor	100	0.0	B-4:7.5		
8		SILT; strong brown; damp; stiff; medium plasticity; no odor		0.0			
9				0.0			
10		light reddish brown		0.0			
11	ML	olive grey		0.0			
12				0.0			
13			100	0.0			
14				0.0			
15		SILTY SAND; bluish gray; dry; medium stiff; mostly fine sand and silt; no odor		0.0			
16	SM			0.0			
17				0.0			
18			100	0.0			
19	ML	SILT; bluish gray; dry stiff; low plasticity; no odor		0.1			
20		SANDY SILT; bluish gray; wet; soft; mostly fine		0.0	B-4:20		▼

NOTES: Groundwater sample B-4:GW collected.

TRC	BORING ID: B-4		
SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**		
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**		
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**		
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**	DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**	
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **25' bgs**	BOREHOLE SIZE: **2.25" Diameter**	

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
21	ML	sand and silt; no odor	100	0.0	B-4:25		End of Borehole
22	SP	POORLY-GRADED SAND; bluish gray; moist; loose; mostly medium-grained sand, minor silt; no odor		0.0			
23				0.0			
24	SW	WELL-GRADED SAND; bluish gray; moist; loose; no odor; gravels near top then fining near 25' bgs; no odor		0.0			
25		End of Borehole		0.0			
26							

NOTES: Groundwater sample B-4:GW collected.

BORING ID: B-5

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **21' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Concrete					
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; light brown; dry; loose; no odor		0.1			
2	ML	SILT; bluish gray; dry; stiff; mostly silt, minor salt; low plasticity; no odor	70	0.0	B-5:2		
3				0.0			
4				0.0			
5				0.0			
6				0.0			
7	ML	SANDY SILT WITH GRAVEL; strong brown; wet; soft; medium plasticity; no odor	80	0.0	B-5:7		
8		very soft		0.0			
9	CL	LEAN CLAY; light gray; soft; damp; mostly fine sediment; medium plasticity; no odor		0.0			
10		dark brown		0.0			
11		olive gray		0.0			
12			90	0.0			
13				0.0			
14	ML	SILT; bluish gray; damp; stiff; low plasticity; no odor		0.0			
15	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; moist; medium stiff; mostly fine sand with silt and gravel; no odor		0.0			
16				0.4	B-5:16		
17				0.2			
18			70	0.1			
19		wet; no odor		0.1			▼
20				0.0			

NOTES: Groundwater sample B-5:GW collected.

TRC	BORING ID: B-5		
SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**		
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**		
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/9/2021**		
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**	DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**	
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **21' bgs**	BOREHOLE SIZE: **2.25" Diameter**	

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
21		End of Borehole		0.0	B-5:21		End of Borehole

NOTES: Groundwater sample B-5:GW collected.

BORING ID: B-6

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/10/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP	Concrete					
1		POORLY-GRADED SAND WITH GRAVEL; light reddish brown; dry; loose; mostly medium-grained sand and gravel; no odor		0.1	B-6:1		
2	ML	SILT; bluish gray; damp; stiff; mostly silt; low plasticity; no odor	70	0.0			
3				0.0			
4				0.0			
5	SP			0.0			
6		POORLY-GRADED SAND WITH GRAVEL; light reddish brown; dry; loose; no odor		0.4	B-6:6		
7	SM	SILTY SAND; dark reddish brown; damp; medium stiffl mostly medium-grained sand; few organics; no odor	75	0.0			
8	CL	LEAN CLAY; light gray; damp; soft; high plasticity; few organics; no odor		0.0			
9				0.0			
10		dark brown greenish gray		0.0			
11		light reddish brown; increase moisture; soft		0.0			
12		minor sand and silt	35	0.0			
13	SM	SILTY SAND; grayish brown; moist; soft; mostly sand and silt; no odor		0.0			
14				0.0			
15	SP	POORLY-GRADED SAND WITH GRAVEL; reddish gray; wet; loose; no odor		0.0	B-6:15		▼
16	SM	SILTY SAND; bluish gray; moist; medium stiff; no odor		0.0			
17				0.0			
18		increased silt	100	0.0			
19				0.0			
20				0.0	B-6:20		

End of Borehole

End of

NOTES: Groundwater sample B-6:GW collected.

TRC

BORING ID: B-7

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/10/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Asphalt					
1	ML	SANDY SILT; dark brown; damp; medium stiff; mostly silt with fine sand, woody debris, trace gravel; low plasticity; no odor		0.1	B-7:1		
2			80	0.0			
3				0.0			
4				0.0			
5	SM	SILTY SAND; greenish gray; wet; loose; mostly medium-grained sand and silt; no odor		0.0			
6				0.2	B-7:6		
7	CH	FAT CLAY; light gray; damp; stiff; high plasticity; no odor		0.0			
8	SM	SILTY SAND; light reddish brown; moist; medium stiff; mostly fine sand and silt, minor gravel; no odor	60	0.0			
9		dark brown; increased silt, organics		0.0	B-7:9.5		
10	GP	POORLY-GRADED GRAVEL WITH SAND; light reddish brown; wet; loose; no odor		0.0			▼
11	ML	SILT; bluish gray; damp; very stiff; mostly fine sand and silt; no odor		0.0			
12			90	0.0			
13				0.0			
14	SM			0.0			
15		SILTY SAND; bluish gray; damp; stiff; mostly fine sand and silt; no odor End of Borehole		0.0	B-7:15		End of Borehole

NOTES: Groundwater sample B-7: GW collected.

BORING ID: B-8

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/10/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Asphalt					
1	SM	SILTY SAND WITH GRAVEL; brown; damp; medium dense; mostly medium-grained sand with silt and some gravel; no odor		0.3	B-8:1		
2				0.2			
3			70	0.1			
4				0.1			
5		SILTY SAND; light reddish brown; moist; medium dense; no odor wet		0.0	B-8:5		
6				0.0			
7	SM	moist		0.0			
8			80	0.0			
9				0.0			
10	SP	moist; few gravel POORLY-GRADED SAND WITH GRAVEL; light reddish brown; wet; loose; no odor		0.0	B-8:10		▼
11				0.0			
12	ML	SILT; bluish gray; dry; very stiff; low plasticity; no odor		0.0			
13			100	0.0			
14				0.0			
15				0.0	B-8:15		
		End of Borehole					End of Borehole

NOTES: Groundwater sample B-8: GW collected.

BORING ID: B-9

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/10/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Asphalt					
1	SM	SILTY SAND WITH GRAVEL; strong brown; dry; medium dense; no odor		0.0			
2		light reddish brown; damp; no odor		0.0			
3			30	0.0			
4				0.0			
5				0.0	B-9:5		
6	ML	SILT; reddish brown; damp; stiff; medium plasticity; mostly silt, few organics; no odor		0.0			
7				0.0			
8			40	0.0			
9	CH	FAT CLAY WITH GRAVEL; reddish gray; moist; soft; high plasticity; no odor		0.0			
10	ML	SILT; reddish brown; wet; soft; medium plasticity; no odor		0.0	B-9:10		▼
11				0.0			
12		minor sand and gravel gravel layer ~0.3' thick, wet	90	0.0			
13		hard silt; bluish gray; no gravel or sand		0.0			
14		gravel layer ~0.5' thick; yellow gray		0.0	B-9:14		
15	GP	POORLY-GRADED GRAVEL WITH SAND; reddish gray; wet; loose; no odor		0.0			
16	SM	SILTY SAND; reddish gray; moist; stiff; mostly fine sand and silt, minor gravel; no odor		0.0			
17				0.0			
18			100	0.0			
19				0.0			
20				0.0	B-9:15		
		End of Borehole					End of

NOTES: Groundwater sample B-9:GW collected.

BORING ID: B-10

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Cascade Drilling**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **9/10/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **W. Weisberg**	TOTAL DEPTH: **20' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2.25" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0		Asphalt					
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; reddish brown; dry; medium stiff; no odor		0.0			
2		damp	60	0.4	B-10:2		
3		dry		0.1			
4	SP-SM			0.0			
5				0.0			
6				0.0			
7				0.0			
8		reddish yellow; moist	80	0.0	B-10:8.5		
9	SM	SANDY SILT; bluish gray; damp; medium dense; mostly fine sand; no odor		0.0			
10	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; reddish brown; moist; no odor		0.0			
11		SANDY SILT; brown; dry; stiff; low plasticity; no odor		0.0			
12				0.0			
13	ML		100	0.0			
14		dark brown; few organics		0.0			
15		SILTY SAND; reddish gray; wet; medium dense; mostly fine sand; no odor		0.0	B-10:15		▼
16	SM			0.0			
17				0.0			
18	ML	SILT; greenish gray; dry; very stiff; low plasticity; no odor	100	0.0			
19				0.0			
20				0.0	B-10:20		
		End of Borehole					End of

NOTES: Groundwater sample B-10:GW collected.

BORING ID: B-11

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Holt**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **10/7/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **N. Dorfner**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Asphalt					
1	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; dark brown; moist; loose; mostly fine sand, minor silt, minor fine gravel; no odor		0.1	B-11: 1		
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark brown; moist; loose; mostly fine sand, minor silt; no odor	70	0.1			
3	SP			0.1			
4	ML	POORLY-GRADED SAND; reddish gray; wet; loose; mostly medium-grained sand; no odor SILT; dark brown; moist; medium stiff; mostly silt; no odor		0.1			▼
5	SP	POORLY-GRADED SAND; grayish brown; moist; medium dense; mostly fine to medium sand, few silt; no odor reddish yellow; wet		0.1			
6	SP			0.3			
7	SP		70	0.2	B-11:7		
8	SP			0.3			
9	SP			0.3			
10	SM	SILTY SAND; reddish yellow; moist; medium dense; mostly fine sand, minor silt; no odor reddish gray		0.2			
11	SP	POORLY-GRADED SAND; grayish brown; wet; medium dense; mostly medium sand; no odor mottling		0.2			
12	SM	SILTY SAND; dark gray; moist; dense; mostly fine sand, minor silt; no odor	100	0.1	B-11:12		
13	SM			0.2			
14	SM			0.1			
15	SM	End of Borehole		0.2			End of Borehole

NOTES: Groundwater sample B-11:GW collected.

BORING ID: B-12

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Holt**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **10/7/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **N. Dorfner**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**

BOREHOLE SIZE: **2" Diameter**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Asphalt					
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; dark brown; loose; moist; mostly fine to medium sand, minor silt, minor fine gravel; no odor		0.3	B-12:1		
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark brown; moist; loose; mostly fine sand, minor silt; no odor	80	0.2			
3				0.2			
4	SP			0.3			▼
	ML	POORLY-GRADED SAND; reddish gray; wet; loose; mostly medium-grained sand, trace gravel; no odor					
5		SILT; bluish gray to grayish brown; moist; medium stiff; mostly silt; no odor		0.5			
6	SP	POORLY-GRADED SAND; grayish brown; moist; medium dense; mostly medium-grained sand, trace silt; no odor		0.3			
7		5.5' wet					
	ML	SILT; bluish gray; moist; stiff; mostly silt; no odor	60	0.3	B-12:7.5		
8				0.3			
9	SP	POORLY-GRADED SAND; grayish brown; wet; medium dense; mostly medium-grained sand; no odor reddish yellow; few fine gravel		0.5			
10				0.3			
11	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor		0.4			
	SP	POORLY-GRADED SAND; reddish gray; wet; medium dense; mostly medium sand; no odor					
12				0.3	B-12:12		
	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor	100				
13				0.3			
14				0.4			
15				0.3			
		End of Borehole					End of Borehole

NOTES: Groundwater sample B-12:GW collected.

BORING ID: B-13

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Holt**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **10/7/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **N. Dorfner**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Asphalt					
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; dark brown; moist; loose; mostly fine to medium sand, minor silt, minor fine gravel; no odor		0.4	B-13:1		
2		POORLY-GRADED SAND WITH SILT; dark brown; moist; medium dense; mostly fine to medium sand, minor silt; no odor	25				
3	SP-SM						▼
4							
5				0.2			
6	SP			0.2			
7	ML	POORLY-GRADED SAND; reddish gray; wet; medium dense; mostly medium sand; no odor		0.2	B-13:7		
	SP	SILT; bluish gray to grayish brown; moist; mostly silt; no odor	90				
8	ML	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium sand, trace silt; no odor		0.2			
9		SILT; grayish brown; moist; stiff; mostly silt; no odor		0.2			
10	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor		0.1			
11	SP	POORLY-GRADED SAND; reddish gray; wet; medium dense; mostly medium sand; no odor		0.1			
12		SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor	100	0.2	B-13:12		
13	SM			0.1			
14				0.1			
15		End of Borehole		0.2	B-13:15		End of Borehole

NOTES: Groundwater sample B-13:GW collected.

BORING ID: B-14

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Holt**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **10/7/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **N. Dorfner**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL: **Hydrated Bentonite Chips**

BOREHOLE SIZE: **2" Diameter**

Depth (feet)	USCS	Description (USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other)	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Asphalt					
1	SP-SM	POORLY-GRADED SAND WITH SILT AND GRAVEL; dark brown; moist; loose; mostly fine to medium sand, minor silt, minor gravel; no odor		0.6	B-14:1		
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark brown; moist; loose; mostly fine to medium sand, minor silt	100	0.5			
3	SP-SM	wet grayish brown; medium dense		0.9	B-14:3		
4	SP-SM			0.6			▼
5	SP	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium sand; no odor		0.7			
5	ML	SILT; light gray; moist; stiff; mostly silt; no odor					
6	SP	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium sand, trace silt; no odor		0.7	B-14:6		
7	SP		75	0.3			
8	ML	SILT; light gray; moist; stiff; mostly silt; no odor		0.2			
9	SP	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium-grained sand; no odor		0.2			
10	SM	SILTY SAND; reddish gray; moist; dense; mostly find sand, minor silt; no odor		0.2			
11	SP	POORLY-GRADED SAND; reddish gray; wet; loose; mostly fine to medium sand; no odor		0.2			
12	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor	100	0.2	B-14:12		
13	SM			0.2			
14	SM			0.2			
15	SM			0.2			End of Borehole

End of Borehole

NOTES: Groundwater sample B-14:GW collected.

BORING ID: B-15

SITE ADDRESS **12700 & 12704 NE 124th St, Kirkland, WA**	CLIENT: **American Property Development**
DRILLING CONTRACTOR: **Holt**	PROJECT #: **450521**
DRILLING EQUIPMENT: **GeoProbe 7822 DT**	DATE: **10/7/2021**
DRILLING METHOD: **Direct-Push Technology (DPT)**	GROUND SURFACE ELEV. FT AMSL: **Not Measured**
LOGGED BY: **N. Dorfner**	TOTAL DEPTH: **15' bgs**

DECOMMISSIONING MATERIAL:
Hydrated Bentonite Chips

BOREHOLE SIZE:
2" Diameter

Depth (feet)	USCS	Description USCS name; Color; Moisture; Density; Plasticity; Dilatency; EPI description; Other	Interval & % Recovery	PID (ppm)	Sample	Sheen	Notes
0	SP-SM	Asphalt					
1		POORLY-GRADED SAND WITH SILT AND GRAVEL; dark brown; moist; loose; mostly fine to medium sand, minor silt, minor gravel; no odor		0.2			
2	SP-SM	POORLY-GRADED SAND WITH SILT; dark brown to brown; moist; loose; mostly fine sand, minor silt, trace gravel; no odor	75	1.1	B-15:2		
3				0.2			
4				0.3			
5	SP	POORLY-GRADED SAND; reddish gray; moist; medium dense; mostly medium sand; no odor iron oxide staining; wet		0.5			▼
6	ML	SILT; light gray; moist; stiff; mostly silt; no odor		0.9	B-15:6		
7	SP	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium sand, trace silt; no odor	90	0.7			
8				0.8			
9	ML	SILT; light gray; moist; stiff; mostly silt; no odor		0.8			
10	SP	POORLY-GRADED SAND; grayish brown with iron oxide staining; wet; medium dense; mostly medium sand; no odor		0.5			
11	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor		0.6			
12	SP	POORLY-GRADED SAND; reddish gray; wet; medium densel mostly medium sand; no odor	100	0.7			
13				0.8	B-15:13.5		
14	SM	SILTY SAND; reddish gray; moist; dense; mostly fine sand, minor silt; no odor		0.9			
15		End of Borehole		0.8			End of Borehole

NOTES: Groundwater sample B-15:GW collected.

Attachment B
Analytical Laboratory Reports

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

September 21, 2021

Keith Woodburne, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: APD Kirkland 450521, F&BI 109190

Dear Mr Woodburne:

Included are the results from the testing of material submitted on September 10, 2021 from the APD Kirkland 450521, F&BI 109190 project. There are 109 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
TRC0921R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 10, 2021 by Friedman & Bruya, Inc. from the TRC Environmental APD Kirkland 450521, F&BI 109190 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
109190-01	B-1:0.5
109190-02	B-1:6
109190-03	B-1:10
109190-04	B-1:12
109190-05	B-1:20
109190-06	B-1:GW
109190-07	B-2:2.5
109190-08	B-2:6
109190-09	B-2:15
109190-10	B-2:20
109190-11	B-2:GW
109190-12	B-3:5
109190-13	B-3:9
109190-14	B-3:14.5
109190-15	B-3:20
109190-16	B-3:GW
109190-17	B-4:3
109190-18	B-4:7.5
109190-19	B-4:20
109190-20	B-4:25
109190-21	B-4:GW
109190-22	B-5:2
109190-23	B-5:7
109190-24	B-5:16
109190-25	B-5:21
109190-26	B-5:GW
109190-27	B-6:1
109190-28	B-6:6
109190-29	B-6:15
109190-30	B-6:GW
109190-31	B-6:20
109190-32	B-7:1
109190-33	B-7:6
109190-34	B-7:9.5
109190-35	B-7:15
109190-36	B-7:GW

CASE NARRATIVE (continued)

Laboratory ID	TRC Environmental
109190-37	B-8:1
109190-38	B-8:5
109190-39	B-8:10
109190-40	B-8:15
109190-41	B-8:GW
109190-42	B-9:5
109190-43	B-9:10
109190-44	B-9:14
109190-45	B-9:20
109190-46	B-9:GW
109190-47	B-10:2
109190-48	B-10:8.5
109190-49	B-10:15
109190-50	B-10:20
109190-51	B-10:GW

The reporting limits in sample B-1:10 were raised due to high percent moisture present in the sample.

Mercury in the 6020B matrix spike failed the acceptance criteria. The laboratory control sample passed the acceptance criteria, therefore the results were due to matrix effect.

Methylene chloride was detected in the 8260D analysis of samples B-5:GW and B-9:GW. The data were flagged as due to laboratory contamination.

The 8260D laboratory control sample exceeded the acceptance criteria for trichlorofluoromethane. The compound was not detected, therefore the data were acceptable.

The 8260D water samples B-5:GW and B-9:GW were decanted due to the presence of sediment. The data were qualified accordingly.

All other quality control requirements were acceptable.

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/15/21
Date Analyzed: 09/16/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
B-1:0.5 109190-01	<5	108
B-1:10 109190-03	<10	104
B-2:2.5 109190-07	<5	83
B-2:6 109190-08	<5	101
B-3:5 109190-12	<5	105
B-3:14.5 109190-14	<5	96
B-4:3 109190-17	<5	97
B-4:7.5 109190-18	<5	105
B-5:7 109190-23	<5	94
B-5:16 109190-24	<5	96
B-6:1 109190-27	<5	97

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/15/21
Date Analyzed: 09/16/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 50-150)
B-6:6 109190-28	<5	87
B-7:1 109190-32 1/5	<25	77
B-7:6 109190-33	<5	95
B-8:1 109190-37	<5	82
B-8:5 109190-38	<5	95
B-9:5 109190-42	<5	85
B-9:10 109190-43	<5	98
B-10:2 109190-47	<5	95
B-10:8.5 109190-48	<5	104
Method Blank 01-1941 MB	<5	88
Method Blank 01-1939 MB	<5	91

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/16/21
Date Analyzed: 09/16/21

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)
B-1:GW 109190-06	<100	89
B-2:GW 109190-11	<100	89
B-3:GW 109190-16	<100	93
B-4:GW 109190-21	<100	92
B-5:GW 109190-26	<100	93
B-6:GW 109190-30	<100	91
B-7:GW 109190-36	<100	92
B-8:GW 109190-41	<100	94
B-9:GW 109190-46	<100	91
B-10:GW 109190-51	<100	91
Method Blank 01-1942 MB	<100	90

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/15/21
Date Analyzed: 09/15/21 and 09/16/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 56-165)
B-1:0.5 109190-01	82 x	1,100	86
B-1:10 109190-03	<100	<500	87
B-2:2.5 109190-07	53 x	660	83
B-2:6 109190-08	<50	<250	85
B-3:5 109190-12	<50	<250	90
B-3:14.5 109190-14	<50	<250	85
B-4:3 109190-17	<50	410	89
B-4:7.5 109190-18	<50	<250	91
B-5:7 109190-23	<50	<250	88
B-5:16 109190-24	<50	<250	86
B-6:1 109190-27	<50	<250	89
B-6:6 109190-28	<50	<250	85

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/15/21
Date Analyzed: 09/15/21 and 09/16/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 56-165)
B-7:1 109190-32	490 x	5,000	92
B-7:6 109190-33	70 x	1,100	89
B-8:1 109190-37	<50	610	86
B-8:5 109190-38	<50	<250	91
B-9:5 109190-42	<50	<250	89
B-9:10 109190-43	<50	<250	88
B-10:2 109190-47	<50	<250	87
B-10:8.5 109190-48	<50	<250	90
Method Blank 01-2104 MB	<50	<250	91

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190
Date Extracted: 09/14/21
Date Analyzed: 09/14/21

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)
B-1:GW 109190-06	<50	<250	87
B-2:GW 109190-11	<50	<250	68
B-3:GW 109190-16	54 x	<250	62
B-4:GW 109190-21	<50	<250	99
B-5:GW 109190-26 1/1.1	61 x	<270	51
B-6:GW 109190-30	<50	<250	102
B-7:GW 109190-36	96 x	<250	97
B-8:GW 109190-41	<50	<250	104
B-9:GW 109190-46 1.1.1	<54	<270	36
B-10:GW 109190-51	<50	<250	73
Method Blank 01-2103 MB	<50	<250	103

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-1:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-06
Date Analyzed:	09/16/21	Data File:	109190-06.111
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.36
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-2:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-11
Date Analyzed:	09/16/21	Data File:	109190-11.112
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	5.13
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-16
Date Analyzed:	09/16/21	Data File:	109190-16.115
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	13.0
Cadmium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-16 x5
Date Analyzed:	09/17/21	Data File:	109190-16 x5.141
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	<5

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-4:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-21
Date Analyzed:	09/16/21	Data File:	109190-21.116
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	4.68
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-5:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-26
Date Analyzed:	09/16/21	Data File:	109190-26.117
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	7.18
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-6:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-30
Date Analyzed:	09/16/21	Data File:	109190-30.118
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	8.48
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-7:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-36
Date Analyzed:	09/20/21	Data File:	109190-36.035
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-8:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-41
Date Analyzed:	09/20/21	Data File:	109190-41.036
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	3.84
Cadmium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-8:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-41 x2
Date Analyzed:	09/17/21	Data File:	109190-41 x2.069
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	<2

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-9:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-46
Date Analyzed:	09/20/21	Data File:	109190-46.037
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	15.4
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-10:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	109190-51
Date Analyzed:	09/20/21	Data File:	109190-51.038
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	16.6
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 109190
Date Extracted:	09/16/21	Lab ID:	I1-581 mb
Date Analyzed:	09/16/21	Data File:	I1-581 mb.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-1:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-06
Date Analyzed:	09/14/21	Data File:	109190-06.208
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	7.79
Cadmium	<1
Chromium	8.22
Lead	3.05
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-2:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-11
Date Analyzed:	09/14/21	Data File:	109190-11.211
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	43.0
Cadmium	1.46
Lead	23.6
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-2:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-11 x10
Date Analyzed:	09/14/21	Data File:	109190-11 x10.193
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	166

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-16 x2
Date Analyzed:	09/15/21	Data File:	109190-16 x2.104
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	39.9
Cadmium	3.42

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-16 x5
Date Analyzed:	09/16/21	Data File:	109190-16 x5.109
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Mercury	<5

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-16 x10
Date Analyzed:	09/14/21	Data File:	109190-16 x10.194
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Lead	103

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-16 x100
Date Analyzed:	09/15/21	Data File:	109190-16 x100.092
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	549

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-4:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-21
Date Analyzed:	09/14/21	Data File:	109190-21.219
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	16.6
Cadmium	<1
Lead	15.2
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-4:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-21 x10
Date Analyzed:	09/14/21	Data File:	109190-21 x10.195
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	125

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-5:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-26
Date Analyzed:	09/15/21	Data File:	109190-26.220
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	50.5
Cadmium	2.20
Lead	39.1
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-5:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-26 x10
Date Analyzed:	09/14/21	Data File:	109190-26 x10.196
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	320

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-6:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-30
Date Analyzed:	09/15/21	Data File:	109190-30.221
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.6
Cadmium	<1
Chromium	21.5
Lead	1.80
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-7:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-36
Date Analyzed:	09/15/21	Data File:	109190-36.222
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.51
Cadmium	<1
Chromium	5.84
Lead	<1
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-8:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-41
Date Analyzed:	09/15/21	Data File:	109190-41.223
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	10.1
Cadmium	<1
Lead	19.8
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-8:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-41 x10
Date Analyzed:	09/14/21	Data File:	109190-41 x10.199
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	154

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-46
Date Analyzed:	09/15/21	Data File:	109190-46.224
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Mercury	1.19

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-46 x2
Date Analyzed:	09/15/21	Data File:	109190-46 x2.105
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	69.6
Cadmium	5.83

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-46 x10
Date Analyzed:	09/14/21	Data File:	109190-46 x10.206
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Lead	193

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-46 x100
Date Analyzed:	09/15/21	Data File:	109190-46 x100.093
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	886

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-10:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-51
Date Analyzed:	09/15/21	Data File:	109190-51.225
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	37.5
Cadmium	<1
Lead	14.3
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-10:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-51 x10
Date Analyzed:	09/14/21	Data File:	109190-51 x10.207
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Chromium	49.8

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	I1-575 mb
Date Analyzed:	09/14/21	Data File:	I1-575 mb.116
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-1:0.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-01
Date Analyzed:	09/14/21	Data File:	109190-01.150
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.37
Cadmium	<1
Chromium	13.0
Lead	19.6
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-1:10	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-03
Date Analyzed:	09/14/21	Data File:	109190-03.153
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.11
Cadmium	<2
Chromium	22.3
Lead	3.32
Mercury	<2

Note: The reporting limits were raised due to high percent moisture.

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-2:2.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-07
Date Analyzed:	09/14/21	Data File:	109190-07.154
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.04
Cadmium	<1
Chromium	14.9
Lead	2.28
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-2:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-08
Date Analyzed:	09/14/21	Data File:	109190-08.155
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.93
Cadmium	<1
Chromium	16.3
Lead	12.2
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-12
Date Analyzed:	09/14/21	Data File:	109190-12.186
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.10
Cadmium	<1
Chromium	26.7
Lead	4.27
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-3:14.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-14
Date Analyzed:	09/14/21	Data File:	109190-14.187
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.34
Cadmium	<1
Chromium	15.1
Lead	3.06
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-4:3	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-17
Date Analyzed:	09/14/21	Data File:	109190-17.188
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.45
Cadmium	<1
Chromium	23.8
Lead	4.52
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-4:7.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-18
Date Analyzed:	09/14/21	Data File:	109190-18.189
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.06
Cadmium	<1
Chromium	17.3
Lead	2.92
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-5:7	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-23
Date Analyzed:	09/14/21	Data File:	109190-23.190
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	7.53
Cadmium	<1
Chromium	25.0
Lead	2.72
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-5:16	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-24
Date Analyzed:	09/14/21	Data File:	109190-24.201
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.96
Cadmium	<1
Chromium	27.9
Lead	3.76
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-6:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-27
Date Analyzed:	09/14/21	Data File:	109190-27.202
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.11
Cadmium	<1
Chromium	22.4
Lead	3.32
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-6:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-28
Date Analyzed:	09/14/21	Data File:	109190-28.203
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.24
Cadmium	<1
Chromium	24.0
Lead	3.83
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-7:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-32
Date Analyzed:	09/14/21	Data File:	109190-32.214
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.95
Cadmium	<1
Chromium	14.1
Lead	13.2
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-7:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-33
Date Analyzed:	09/14/21	Data File:	109190-33.215
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.81
Cadmium	<1
Chromium	18.5
Lead	2.56
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-8:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-37
Date Analyzed:	09/14/21	Data File:	109190-37.216
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.57
Cadmium	<1
Chromium	15.8
Lead	20.3
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-42
Date Analyzed:	09/15/21	Data File:	109190-42.227
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.20
Cadmium	<1
Chromium	24.8
Lead	3.69
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-9:10	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-43
Date Analyzed:	09/15/21	Data File:	109190-43.228
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.50
Cadmium	<1
Chromium	31.8
Lead	4.95
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-10:2	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-47
Date Analyzed:	09/15/21	Data File:	109190-47.229
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	5.33
Cadmium	<1
Chromium	26.1
Lead	6.65
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-8:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-38
Date Analyzed:	09/15/21	Data File:	109190-38.236
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.10
Cadmium	<1
Chromium	17.9
Lead	2.44
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-10:8.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	109190-48
Date Analyzed:	09/15/21	Data File:	109190-48.237
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	34.4
Cadmium	<1
Chromium	21.4
Lead	3.49
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	I1-576 mb
Date Analyzed:	09/14/21	Data File:	I1-576 mb.113
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-1:0.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-01
Date Analyzed:	09/17/21	Data File:	091709.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	95	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-1:10	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-03
Date Analyzed:	09/20/21	Data File:	092011.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-2:2.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-07
Date Analyzed:	09/17/21	Data File:	091711.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-2:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-08
Date Analyzed:	09/17/21	Data File:	091712.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-3:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-12
Date Analyzed:	09/17/21	Data File:	091713.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-3:14.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-14
Date Analyzed:	09/17/21	Data File:	091714.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-4:3	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-17
Date Analyzed:	09/17/21	Data File:	091715.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-4:7.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-18
Date Analyzed:	09/17/21	Data File:	091716.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-5:7	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-23
Date Analyzed:	09/17/21	Data File:	091717.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	97	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-5:16	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-24
Date Analyzed:	09/17/21	Data File:	091718.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-6:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-27
Date Analyzed:	09/17/21	Data File:	091719.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-6:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-28
Date Analyzed:	09/17/21	Data File:	091720.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	0.059
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-7:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-32
Date Analyzed:	09/17/21	Data File:	091721.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	0.32
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-7:6	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-33
Date Analyzed:	09/17/21	Data File:	091722.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	0.051
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-8:1	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-37
Date Analyzed:	09/17/21	Data File:	091723.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-8:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-38
Date Analyzed:	09/17/21	Data File:	091724.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-9:5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-42
Date Analyzed:	09/17/21	Data File:	091725.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-9:10	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-43
Date Analyzed:	09/17/21	Data File:	091726.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-10:2	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-47
Date Analyzed:	09/17/21	Data File:	091727.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-10:8.5	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-48
Date Analyzed:	09/17/21	Data File:	091728.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	01-2116 mb
Date Analyzed:	09/17/21	Data File:	091705.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B-1:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-06
Date Analyzed:	09/13/21	Data File:	091320.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	101	88	112
4-Bromofluorobenzene	103	90	111

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:	B-2:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-11
Date Analyzed:	09/13/21	Data File:	091321.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	101	90	111

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:	B-3:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-16
Date Analyzed:	09/13/21	Data File:	091322.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	102	90	111

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:	B-4:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-21
Date Analyzed:	09/13/21	Data File:	091323.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	103	88	112
4-Bromofluorobenzene	101	90	111

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

Client Sample ID:	B-5:GW hs	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-26
Date Analyzed:	09/18/21	Data File:	091747.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	101	88	112

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<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	6.1 lc	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	<1
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B-6:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-30
Date Analyzed:	09/13/21	Data File:	091325.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	102	88	112
4-Bromofluorobenzene	101	90	111

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:	B-7:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-36
Date Analyzed:	09/13/21	Data File:	091326.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	101	90	111

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	1.2
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:	B-8:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-41
Date Analyzed:	09/13/21	Data File:	091327.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	85	117
Toluene-d8	98	88	112
4-Bromofluorobenzene	102	90	111

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

Client Sample ID:	B-9:GW hs	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/17/21	Lab ID:	109190-46
Date Analyzed:	09/18/21	Data File:	091748.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	86	113
Toluene-d8	98	88	114
4-Bromofluorobenzene	100	88	112

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<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	5.4 lc	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	<1
2-Butanone (MEK)	<20	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B-10:GW	Client:	TRC Environmental
Date Received:	09/10/21	Project:	450521, F&BI 109190
Date Extracted:	09/13/21	Lab ID:	109190-51
Date Analyzed:	09/13/21	Data File:	091329.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	112	85	117
Toluene-d8	108	88	112
4-Bromofluorobenzene	103	90	111

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:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	450521, F&BI 109190
Date Extracted:	09/14/21	Lab ID:	01-2021 mb
Date Analyzed:	09/13/21	Data File:	091307.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	85	117
Toluene-d8	96	88	112
4-Bromofluorobenzene	101	90	111

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: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-48 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	115	71-131

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109187-16 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	95	61-153

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-11 (Duplicate)

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

Laboratory Code: Laboratory Control Sample

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

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	114	108	63-146	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	106	79-144

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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	88	96	63-142	9

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-11 (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	5.13	96	104	75-125	8
Cadmium	ug/L (ppb)	5	<1	90	97	75-125	7
Chromium	ug/L (ppb)	20	<1	87	93	75-125	7
Lead	ug/L (ppb)	10	<1	94	101	75-125	7
Mercury	ug/L (ppb)	5	<1	108	111	75-125	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	94	80-120
Cadmium	ug/L (ppb)	5	97	80-120
Chromium	ug/L (ppb)	20	96	80-120
Lead	ug/L (ppb)	10	96	80-120
Mercury	ug/L (ppb)	5	106	80-120

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-01 x5 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	<5	86	90	75-125	5
Cadmium	mg/kg (ppm)	10	<5	93	96	75-125	3
Chromium	mg/kg (ppm)	50	15.0	96	93	75-125	3
Lead	mg/kg (ppm)	50	21.0	89	89	75-125	0
Mercury	mg/kg (ppm	5	<5	74 vo	79	75-125	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	94	80-120
Cadmium	mg/kg (ppm)	10	95	80-120
Chromium	mg/kg (ppm)	50	96	80-120
Lead	mg/kg (ppm)	50	92	80-120
Mercury	mg/kg (ppm)	5	82	80-120

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-06 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	<10	83	86	75-125	4
Cadmium	ug/L (ppb)	5	<10	101	102	75-125	1
Chromium	ug/L (ppb)	20	10.6	89	94	75-125	5
Lead	ug/L (ppb)	10	<10	81	78	75-125	4
Mercury	ug/L (ppb)	5	<10	81	81	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	100	80-120
Cadmium	ug/L (ppb)	5	102	80-120
Chromium	ug/L (ppb)	20	102	80-120
Lead	ug/L (ppb)	10	96	80-120
Mercury	ug/L (ppb)	5	105	80-120

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109190-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	1	<0.5	53	53	10-142	0
Chloromethane	mg/kg (ppm)	1	<0.5	68	65	10-126	5
Vinyl chloride	mg/kg (ppm)	1	<0.05	77	74	10-138	4
Bromomethane	mg/kg (ppm)	1	<0.5	86	80	10-163	7
Chloroethane	mg/kg (ppm)	1	<0.5	84	84	10-176	0
Trichlorofluoromethane	mg/kg (ppm)	1	<0.5	89	86	10-176	3
Acetone	mg/kg (ppm)	5	<5	115	112	10-163	3
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	98	96	10-160	2
Hexane	mg/kg (ppm)	1	<0.25	88	88	10-137	0
Methylene chloride	mg/kg (ppm)	1	<0.5	99	95	10-156	4
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	<0.05	108	103	21-145	5
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	106	101	14-137	5
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	106	104	19-140	2
2,2-Dichloropropane	mg/kg (ppm)	1	<0.05	107	104	10-158	3
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	108	104	25-135	4
Chloroform	mg/kg (ppm)	1	<0.05	108	105	21-145	3
2-Butanone (MEK)	mg/kg (ppm)	5	<1	116	114	19-147	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	107	104	12-160	3
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	110	107	10-156	3
1,1-Dichloropropene	mg/kg (ppm)	1	<0.05	105	104	17-140	1
Carbon tetrachloride	mg/kg (ppm)	1	<0.05	110	106	9-164	4
Benzene	mg/kg (ppm)	1	<0.03	106	103	29-129	3
Trichloroethene	mg/kg (ppm)	1	<0.02	108	107	21-139	1
1,2-Dichloropropane	mg/kg (ppm)	1	<0.05	108	105	30-135	3
Bromodichloromethane	mg/kg (ppm)	1	<0.05	110	109	23-155	1
Dibromomethane	mg/kg (ppm)	1	<0.05	111	106	23-145	5
4-Methyl-2-pentanone	mg/kg (ppm)	5	<1	118	114	24-155	3
cis-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	113	111	28-144	2
Toluene	mg/kg (ppm)	1	<0.05	108	106	35-130	2
trans-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	114	114	26-149	0
1,1,2-Trichloroethane	mg/kg (ppm)	1	<0.05	113	113	10-205	0
2-Hexanone	mg/kg (ppm)	5	<0.5	124	122	15-166	2
1,3-Dichloropropane	mg/kg (ppm)	1	<0.05	112	109	31-137	3
Tetrachloroethene	mg/kg (ppm)	1	<0.025	109	108	20-133	1
Dibromochloromethane	mg/kg (ppm)	1	<0.05	112	110	28-150	2
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	<0.05	113	108	28-142	5
Chlorobenzene	mg/kg (ppm)	1	<0.05	111	108	32-129	3
Ethylbenzene	mg/kg (ppm)	1	<0.05	111	109	32-137	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	112	109	31-143	3
m,p-Xylene	mg/kg (ppm)	2	<0.1	117	116	34-136	1
o-Xylene	mg/kg (ppm)	1	<0.05	117	114	33-134	3
Styrene	mg/kg (ppm)	1	<0.05	113	111	35-137	2
Isopropylbenzene	mg/kg (ppm)	1	<0.05	112	110	31-142	2
Bromoform	mg/kg (ppm)	1	<0.05	112	108	21-156	4
n-Propylbenzene	mg/kg (ppm)	1	<0.05	110	110	23-146	0
Bromobenzene	mg/kg (ppm)	1	<0.05	111	109	34-130	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	<0.05	112	109	18-149	3
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	110	105	28-140	5
1,2,3-Trichloropropane	mg/kg (ppm)	1	<0.05	112	110	25-144	2
2-Chlorotoluene	mg/kg (ppm)	1	<0.05	108	107	31-134	1
4-Chlorotoluene	mg/kg (ppm)	1	<0.05	111	109	31-136	2
tert-Butylbenzene	mg/kg (ppm)	1	<0.05	110	109	30-137	1
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	<0.05	109	107	10-182	2
sec-Butylbenzene	mg/kg (ppm)	1	<0.05	112	111	23-145	1
p-Isopropyltoluene	mg/kg (ppm)	1	<0.05	113	111	21-149	2
1,3-Dichlorobenzene	mg/kg (ppm)	1	<0.05	112	111	30-131	1
1,4-Dichlorobenzene	mg/kg (ppm)	1	<0.05	112	110	29-129	2
1,2-Dichlorobenzene	mg/kg (ppm)	1	<0.05	114	110	31-132	4
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	<0.5	116	107	11-161	8
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	<0.25	108	107	22-142	1
Hexachlorobutadiene	mg/kg (ppm)	1	<0.25	119	116	10-142	3
Naphthalene	mg/kg (ppm)	1	<0.05	113	108	14-157	5
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	<0.25	108	105	20-144	3

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	1	64	10-146
Chloromethane	mg/kg (ppm)	1	73	27-133
Vinyl chloride	mg/kg (ppm)	1	84	22-139
Bromomethane	mg/kg (ppm)	1	88	38-114
Chloroethane	mg/kg (ppm)	1	83	9-163
Trichlorofluoromethane	mg/kg (ppm)	1	90	10-196
Acetone	mg/kg (ppm)	5	96	52-141
1,1-Dichloroethene	mg/kg (ppm)	1	92	47-128
Hexane	mg/kg (ppm)	1	90	43-142
Methylene chloride	mg/kg (ppm)	1	90	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	98	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	1	100	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	98	68-115
2,2-Dichloropropane	mg/kg (ppm)	1	105	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	1	98	72-127
Chloroform	mg/kg (ppm)	1	98	66-120
2-Butanone (MEK)	mg/kg (ppm)	5	95	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	96	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	102	62-131
1,1-Dichloropropene	mg/kg (ppm)	1	97	69-128
Carbon tetrachloride	mg/kg (ppm)	1	100	60-139
Benzene	mg/kg (ppm)	1	95	71-118
Trichloroethene	mg/kg (ppm)	1	97	63-121
1,2-Dichloropropane	mg/kg (ppm)	1	95	72-127
Bromodichloromethane	mg/kg (ppm)	1	99	57-126
Dibromomethane	mg/kg (ppm)	1	97	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	5	97	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	1	99	67-122
Toluene	mg/kg (ppm)	1	97	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	1	100	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	1	98	64-115
2-Hexanone	mg/kg (ppm)	5	93	33-152
1,3-Dichloropropane	mg/kg (ppm)	1	96	72-130
Tetrachloroethene	mg/kg (ppm)	1	99	72-114
Dibromochloromethane	mg/kg (ppm)	1	99	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	98	74-132
Chlorobenzene	mg/kg (ppm)	1	98	76-111
Ethylbenzene	mg/kg (ppm)	1	97	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	99	64-121
m,p-Xylene	mg/kg (ppm)	2	97	78-122
o-Xylene	mg/kg (ppm)	1	102	77-124
Styrene	mg/kg (ppm)	1	98	74-126
Isopropylbenzene	mg/kg (ppm)	1	100	76-127
Bromoform	mg/kg (ppm)	1	98	56-132
n-Propylbenzene	mg/kg (ppm)	1	99	74-124
Bromobenzene	mg/kg (ppm)	1	97	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	99	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	98	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	1	98	61-137
2-Chlorotoluene	mg/kg (ppm)	1	96	74-121
4-Chlorotoluene	mg/kg (ppm)	1	98	75-122
tert-Butylbenzene	mg/kg (ppm)	1	98	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	97	76-125
sec-Butylbenzene	mg/kg (ppm)	1	99	71-130
p-Isopropyltoluene	mg/kg (ppm)	1	100	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	1	100	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	1	97	74-117
1,2-Dichlorobenzene	mg/kg (ppm)	1	99	76-121
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	101	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	98	64-135
Hexachlorobutadiene	mg/kg (ppm)	1	104	50-153
Naphthalene	mg/kg (ppm)	1	100	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	99	63-138

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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

Laboratory Code: 109115-17 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	10	<1	97	50-150
Chloromethane	ug/L (ppb)	10	<10	98	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	103	16-176
Bromomethane	ug/L (ppb)	10	<5	131	10-193
Chloroethane	ug/L (ppb)	10	<1	96	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	135	50-150
Acetone	ug/L (ppb)	50	<50	69	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	108	50-150
Hexane	ug/L (ppb)	10	<5	83	49-161
Methylene chloride	ug/L (ppb)	10	10	29 b	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	70	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	95	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	91	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	59	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	97	50-150
Chloroform	ug/L (ppb)	10	<1	96	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	69	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	99	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	93	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	94	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	88	50-150
Benzene	ug/L (ppb)	10	<0.35	90	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	92	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	91	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	95	50-150
Dibromomethane	ug/L (ppb)	10	<1	96	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	104	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	88	48-145
Toluene	ug/L (ppb)	10	<1	97	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	79	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	98	50-150
2-Hexanone	ug/L (ppb)	50	<10	77	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	94	50-150
Tetrachloroethene	ug/L (ppb)	10	4.1	92 b	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	93	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	93	50-150
Chlorobenzene	ug/L (ppb)	10	<1	95	50-150
Ethylbenzene	ug/L (ppb)	10	<1	93	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	96	50-150
m,p-Xylene	ug/L (ppb)	20	<2	91	50-150
o-Xylene	ug/L (ppb)	10	<1	92	50-150
Styrene	ug/L (ppb)	10	<1	94	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	90	50-150
Bromoform	ug/L (ppb)	10	<5	90	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	88	50-150
Bromobenzene	ug/L (ppb)	10	<1	100	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	93	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	107	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	103	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	96	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	94	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	84	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	90	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	81	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	82	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	97	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	95	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	96	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	97	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	90	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	88	42-150
Naphthalene	ug/L (ppb)	10	<1	101	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	92	44-155

Date of Report: 09/21/21
Date Received: 09/10/21
Project: APD Kirkland 450521, F&BI 109190

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	100	114	70-130	13
Chloromethane	ug/L (ppb)	10	100	116	70-130	15
Vinyl chloride	ug/L (ppb)	10	100	113	70-130	12
Bromomethane	ug/L (ppb)	10	140	166	28-182	17
Chloroethane	ug/L (ppb)	10	95	103	70-130	8
Trichlorofluoromethane	ug/L (ppb)	10	120	141 vo	70-130	16
Acetone	ug/L (ppb)	50	61	61	42-155	0
1,1-Dichloroethene	ug/L (ppb)	10	102	116	70-130	13
Hexane	ug/L (ppb)	10	91	104	50-161	13
Methylene chloride	ug/L (ppb)	10	99	116	29-192	16
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	74	81	70-130	9
trans-1,2-Dichloroethene	ug/L (ppb)	10	92	104	70-130	12
1,1-Dichloroethane	ug/L (ppb)	10	85	95	70-130	11
2,2-Dichloropropane	ug/L (ppb)	10	72	81	70-130	12
cis-1,2-Dichloroethene	ug/L (ppb)	10	93	106	70-130	13
Chloroform	ug/L (ppb)	10	94	106	70-130	12
2-Butanone (MEK)	ug/L (ppb)	50	68	79	50-157	15
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	97	110	70-130	13
1,1,1-Trichloroethane	ug/L (ppb)	10	94	103	70-130	9
1,1-Dichloropropene	ug/L (ppb)	10	95	109	70-130	14
Carbon tetrachloride	ug/L (ppb)	10	94	106	70-130	12
Benzene	ug/L (ppb)	10	89	101	70-130	13
Trichloroethene	ug/L (ppb)	10	91	103	70-130	12
1,2-Dichloropropane	ug/L (ppb)	10	90	101	70-130	12
Bromodichloromethane	ug/L (ppb)	10	97	110	70-130	13
Dibromomethane	ug/L (ppb)	10	92	106	70-130	14
4-Methyl-2-pentanone	ug/L (ppb)	50	100	114	70-130	13
cis-1,3-Dichloropropene	ug/L (ppb)	10	100	111	70-130	10
Toluene	ug/L (ppb)	10	95	102	70-130	7
trans-1,3-Dichloropropene	ug/L (ppb)	10	90	93	70-130	3
1,1,2-Trichloroethane	ug/L (ppb)	10	96	103	70-130	7
2-Hexanone	ug/L (ppb)	50	75	81	69-130	8
1,3-Dichloropropane	ug/L (ppb)	10	96	103	70-130	7
Tetrachloroethene	ug/L (ppb)	10	96	103	70-130	7
Dibromochloromethane	ug/L (ppb)	10	101	106	63-142	5
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	96	102	70-130	6
Chlorobenzene	ug/L (ppb)	10	93	101	70-130	8
Ethylbenzene	ug/L (ppb)	10	93	100	70-130	7
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	96	103	70-130	7
m,p-Xylene	ug/L (ppb)	20	93	99	70-130	6
o-Xylene	ug/L (ppb)	10	93	100	70-130	7
Styrene	ug/L (ppb)	10	94	101	70-130	7
Isopropylbenzene	ug/L (ppb)	10	93	101	70-130	8
Bromoform	ug/L (ppb)	10	99	102	50-157	3
n-Propylbenzene	ug/L (ppb)	10	88	96	70-130	9
Bromobenzene	ug/L (ppb)	10	97	103	70-130	6
1,3,5-Trimethylbenzene	ug/L (ppb)	10	90	98	52-150	9
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	99	109	70-130	10
1,2,3-Trichloropropane	ug/L (ppb)	10	96	102	70-130	6
2-Chlorotoluene	ug/L (ppb)	10	95	102	70-130	7
4-Chlorotoluene	ug/L (ppb)	10	93	100	70-130	7
tert-Butylbenzene	ug/L (ppb)	10	84	92	70-130	9
1,2,4-Trimethylbenzene	ug/L (ppb)	10	91	98	70-130	7
sec-Butylbenzene	ug/L (ppb)	10	84	91	70-130	8
p-Isopropyltoluene	ug/L (ppb)	10	85	93	70-130	9
1,3-Dichlorobenzene	ug/L (ppb)	10	95	102	70-130	7
1,4-Dichlorobenzene	ug/L (ppb)	10	93	100	70-130	7
1,2-Dichlorobenzene	ug/L (ppb)	10	94	101	70-130	7
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	93	102	70-130	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	90	96	70-130	6
Hexachlorobutadiene	ug/L (ppb)	10	88	95	70-130	8
Naphthalene	ug/L (ppb)	10	95	104	70-130	9
1,2,3-Trichlorobenzene	ug/L (ppb)	10	89	97	69-143	9

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.

109190

SAMPLE CHAIN OF CUSTODY ME 09-10-21 VS3/AD6/VW5/AD4

Page # 1 of 6 EDD

Report To Keith Woodburne

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-1010 Email kwoodburne@trcompanies.com

SAMPLERS (*signature*)

PROJECT NAME: 919 Kirkland

PO #

REMARKS: 405521

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 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Total	MTCA 5 Dissolved			Notes (X - per WW 9/13/21 ME)
B-1: 0.5	01 A-F	9/9/21	0926	Soil	5	X	X			X			X				Hold
B-1: 6	02		0945	Soil	5												
B-1: 10	03		0955	Soil	5	X	X			X			X				
B-1: 12	04		1005	Soil	5												
B-1: 20	05		1010	Soil	5												
B-1: GW	06 A-F		1035	Water	6	X	X			X			X	X			
B-2: 2.5	07 A-E		1055	Soil	5	X	X			X			X				202 Jar labeled B2!
B-2: 6	08		1100	Soil	5	X	X			X			X				
B-2: 15	09		1115	Soil	5												
B-2: 20 JB 9/13	10		1125	Soil	5												

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Wesley Weirberg	TBC	9/10/21	1530
Received by:		WINA	FBI	9/10/21	1530
Relinquished by:					
Received by:			Samples received at 4 °C		

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

109190

SAMPLE CHAIN OF CUSTODY

ME 09-10-21 V53/A16/V45/E04

Page # 2 of 6

Report To Keith Woodbury

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0400 Email kwoodbury@trcsolutions.com

SAMPLERS (*signature*)

PROJECT NAME: APD Kirkland

PO #

REMARKS: #505214

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	MTCA 5 Total	MTCA 5 Dissolved			Notes
B-2:GW	11 A-E	9/9/21	1200	water	9	X	X			X			X	X			~~4 d~~
B-3:5	12 A-E		1325	Soil	5	X	X			X			X				
B-3:9	13		1333	Soil	5												
B-3:14.5	14		1345	Soil	5	X	X			X			X				
B-3:20	15		1350	Soil	5												
B-2:GW	16 A-E		1410	water	9	X	X			X			X	X			
B-4:3	17 A-E		1440	Soil	5	X	X			X			X				
B-4:7.5	18		1450	Soil	5	X	X			X			X				
B-4:20	19		1505	Soil	5												
B-4:25	20		1515	Soil	5												✓

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Wesley Weinberg	TRC	9/10/21	1530
Received by:		V. NIM	FB	9/10/21	1550
Relinquished by:					
Received by:			Samples received at 4 °C		

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

109190

SAMPLE CHAIN OF CUSTODY

ME 09-10-21 VS3/ADG/OWS/AOY

Page # 3 of 6

EDY

Report To Keith Woodburne

Company TRC

Address 1190 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email Kwoodburne@trcompanies.com

SAMPLERS (*signature*)

PROJECT NAME: APD Kirkland

PO #

REMARKS: 450521

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	MTCA 5 Total	MTCA 5 Dissolved			Notes
B-4:GW	21A-I	9/9/21	1530	water	9	X	X			X			X	X			Hold
B-5:2	22 A-E	"	1555	Soil	5												
B-5:7	23	"	1605	Soil	5	X	X			X			X				
B-5:16	24	"	1611	Soil	5	X	X			X			X				
B-5:21	25	"	1620	Soil	5												
B-5:GW	26 A-E	"	1645	water	9	X	X			X			X	X			
B-6:1	27 A-E	9/10/21	0925	Soil	5	X	X			X			X				
B-6:6	28	"	0950	Soil	5	X	X			X			X				
B-6:15	29	"	1000	Soil	5												
B-6:GW	30 A-I	"	1000	Water	9	X	X			X			X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Wesley Weisberg	TRC	9/10/21	1530
Received by:	VJ Hall	FEDEX	9/10/21	1530
Relinquished by:				
Received by:		Samples received at 4 °C		

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

109190

SAMPLE CHAIN OF CUSTODY

ME 09-10-21 VS3/AI6/VW5/AD4

Page # 1 of 6 EDD

Report To Keith Woolbrune

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email kwoolbrune@trcompanies.com

SAMPLERS (*signature*)

PROJECT NAME: ARD Kirkland

PO #: 450521

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	MTCA 5 Total	MTCA 5 Dissolved			Notes
B-6:20	31 A-E	9/10/21	1010	Soil	5												Hold
B-7:1	32		1100	Soil	5	X	X			X			X				
B-7:6	33		1110	Soil	5	X	X			X			X				
B-7:9.5	34		1117	Soil	5												
B-7:15	35		1122	Soil	5												
B-7:GW	36 A-I		1130	water	9	X	X			X			X	X			
B-8:1	37 A-E		1210	Soil	5	X	X			X			X				
B-8:5	38		1214	Soil	5	X	X			X			X				
B-8:10	39		1216	Soil	5												
B-9:15	40		1220	Soil	5												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Lindsey Wiedeman	TRC	9/10/21	1530
Received by:	VI KAH	FBI	9/10/21	1530
Relinquished by:				
Received by:		Samples received at 4 °C		

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

109190

SAMPLE CHAIN OF CUSTODY

ME 09-10-21 VS3/ ADG/ VMS/ ADY/ EQY

Page # 5 of 6

Report To Keith Wildhune

Company TRC

Address 1180 NW Maple St. Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email kwildhune@trcsolutions.com

SAMPLERS (*signature*)

PROJECT NAME: ADD Kirkland

PO #:

REMARKS: 450521

INVOICE TO

Project specific RLs? - Yes / No

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 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Total	MTCA 5 Dissolved			Notes
B-8:GW	41 A-E	9/10/21	1300	water	9	X	X			X			X	X			Hold
B-9:5	42		1315	Soil	5	X	X			X			X				
B-9:10	43		1325	Soil	5	X	X			X			X				
B-9:14	44		1339	Soil	5												
B-9:20	45		1345	Soil	5												
B-9:GW	46 A-I		1410	water	9	X	X			X			X	X			
B-10:2	47 A-E		1425	Soil	5	X	X			X			X				
B-10:8.5	48		1428	Soil	5	X	X			X			X				
B-10:15	49		1430	Soil	5												
B-10:20	50		1435	Soil	5												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Wesley Lucibey	TRC	9/10/21	1520
Received by:	V I N U	FBI	9/10/21	1530
Relinquished by:				
Received by:		Samples received at 4 °C		

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

109190

SAMPLE CHAIN OF CUSTODY ME 09-10-21 VS3/AI6/VW5/A04

Page # 1 of 1

Report To Keith Woodburne

Company TRC

Address 1180 NW Maple St Suite 310

City, State, ZIP Issaquah WA 98027

Phone 425-395-0010 Email Kwoodburne@trcsolutions.com

SAMPLERS (*signature*)

PROJECT NAME: ADD Kirkland

PO #: 450521

REMARKS: Project specific RLs? - Yes / No

INVOICE TO

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

E04

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

						ANALYSES REQUESTED											
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Total	MTCA 5 Dissolved			Notes
B-10:12W	S1A-I	9/10/21	1455	Water	9	X	X			X			X	X			~~E04~~

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Wendy Weisberg	TRC	9/10/21	1530
Received by:	Vinh	FBI	9/10/21	1530
Relinquished by:				
Received by:		Samples received at 4 °C		

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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

October 12, 2021

Keith Woodburne, Project Manager
TRC Environmental
1180 NW Maple St, Suite 310
Issaquah, WA 98027

RE: 450521 APD Kirkland, F&BI 110161

Dear Mr Woodburne:

Included are the results from the testing of material submitted on October 8, 2021 from the 450521 APD Kirkland, F&BI 110161 project. There are 64 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
TRC1012R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 8, 2021 by Friedman & Bruya, Inc. from the TRC Environmental 450521 APD Kirkland, F&BI 110161 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	TRC Environmental
110161-01	B-11:1
110161-02	B-11:7
110161-03	B-11:12
110161-04	B-11:GW
110161-05	B-12:1
110161-06	B-12:7.5
110161-07	B-12:12
110161-08	B-12:GW
110161-09	B-13:1
110161-10	B-13:7
110161-11	B-13:12
110161-12	B-13:GW
110161-13	B-14:1
110161-14	B-14:3
110161-15	B-14:6
110161-16	B-14:12
110161-17	B-14:GW
110161-18	B-15:2
110161-19	B-15:6
110161-20	B-15:13.5
110161-21	B-15:GW

The 8260D water calibration standard failed the acceptance criteria for acetone. The data were flagged accordingly.

The 8260D matrix spike and matrix spike duplicate failed the relative percent difference for methylene chloride. In addition, several 8260 compounds exceeded the acceptance criteria. The analytes were not detected, therefore the data were acceptable.

All other quality control requirements were acceptable.

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161
Date Extracted: 10/11/21
Date Analyzed: 10/11/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
B-11:1 110161-01	<50	<250	93
B-11:7 110161-02	<50	<250	93
B-11:12 110161-03	<50	<250	85
B-12:1 110161-05	<50	640	93
B-12:7.5 110161-06	<50	<250	95
B-12:12 110161-07	<50	<250	95
B-13:1 110161-09	<50	<250	96
B-13:7 110161-10	<50	<250	97
B-13:12 110161-11	<50	<250	94
B-14:3 110161-14	<50	<250	97

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161
Date Extracted: 10/11/21
Date Analyzed: 10/11/21

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

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 53-144)
B-14:6 110161-15	110 x	1,900	93
B-14:12 110161-16	<50	<250	91
B-15:2 110161-18	<50	<250	92
B-15:6 110161-19	<50	<250	94
B-15:13.5 110161-20	<50	<250	92
Method Blank 01-2345 MB	<50	<250	97

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161
Date Extracted: 10/11/21
Date Analyzed: 10/11/21

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)
B-11:GW 110161-04	<50	<250	116
B-12:GW 110161-08	<50	<250	121
B-13:GW 110161-12	<50	<250	107
B-14:GW 110161-17	<50	<250	104
B-15:GW 110161-21	<50	<250	119
Method Blank 01-2341 MB	<50	<250	110

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-11:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-04
Date Analyzed:	10/08/21	Data File:	110161-04.142
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-12:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-08
Date Analyzed:	10/08/21	Data File:	110161-08.143
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.39

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-13:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-12
Date Analyzed:	10/08/21	Data File:	110161-12.144
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.47

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-14:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-17
Date Analyzed:	10/08/21	Data File:	110161-17.145
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.61

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	B-15:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-21
Date Analyzed:	10/08/21	Data File:	110161-21.146
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

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

Analysis For Dissolved Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	I1-634 mb2
Date Analyzed:	10/09/21	Data File:	I1-634 mb2.207
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:	B-11:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-04
Date Analyzed:	10/08/21	Data File:	110161-04.147
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.47

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-12:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-08
Date Analyzed:	10/08/21	Data File:	110161-08.148
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	6.34

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-13:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-12
Date Analyzed:	10/08/21	Data File:	110161-12.149
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.75

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-14:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-17
Date Analyzed:	10/08/21	Data File:	110161-17.150
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	2.22

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-15:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-21
Date Analyzed:	10/08/21	Data File:	110161-21.153
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Arsenic	1.63

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	I1-634 mb2
Date Analyzed:	10/09/21	Data File:	I1-634 mb2.207
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:	B-11:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-01
Date Analyzed:	10/08/21	Data File:	110161-01.106
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.16
Cadmium	<1
Chromium	15.1
Lead	3.07
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-11:7	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-02
Date Analyzed:	10/08/21	Data File:	110161-02.109
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.72
Cadmium	<1
Chromium	17.3
Lead	1.34
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-11:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-03
Date Analyzed:	10/08/21	Data File:	110161-03.110
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.41
Cadmium	<1
Chromium	17.0
Lead	2.84
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-12:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-05
Date Analyzed:	10/08/21	Data File:	110161-05.111
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.76
Cadmium	<1
Chromium	14.0
Lead	5.13
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-12:7.5	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-06
Date Analyzed:	10/08/21	Data File:	110161-06.112
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.29
Cadmium	<1
Chromium	22.1
Lead	1.33
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-12:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-07
Date Analyzed:	10/08/21	Data File:	110161-07.113
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.96
Cadmium	<1
Chromium	18.0
Lead	3.00
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-13:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-09
Date Analyzed:	10/08/21	Data File:	110161-09.123
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	18.7
Lead	1.75
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-13:7	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-10
Date Analyzed:	10/08/21	Data File:	110161-10.124
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	26.4
Lead	1.60
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-13:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-11
Date Analyzed:	10/08/21	Data File:	110161-11.125
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.18
Cadmium	<1
Chromium	14.7
Lead	2.54
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-14:3	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-14
Date Analyzed:	10/08/21	Data File:	110161-14.126
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.31
Cadmium	<1
Chromium	11.3
Lead	8.98
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-14:6	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-15
Date Analyzed:	10/08/21	Data File:	110161-15.129
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.64
Cadmium	<1
Chromium	24.6
Lead	3.65
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-14:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-16
Date Analyzed:	10/08/21	Data File:	110161-16.130
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	4.15
Cadmium	<1
Chromium	16.7
Lead	3.21
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-15:2	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-18
Date Analyzed:	10/08/21	Data File:	110161-18.131
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	2.22
Cadmium	<1
Chromium	15.4
Lead	3.16
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-15:6	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-19
Date Analyzed:	10/08/21	Data File:	110161-19.132
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.33
Cadmium	<1
Chromium	17.4
Lead	1.10
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	B-15:13.5	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	110161-20
Date Analyzed:	10/08/21	Data File:	110161-20.133
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	3.17
Cadmium	<1
Chromium	14.2
Lead	2.17
Mercury	<1

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	TRC Environmental
Date Received:	NA	Project:	450521, F&BI 110161
Date Extracted:	10/08/21	Lab ID:	I1-638 mb
Date Analyzed:	10/08/21	Data File:	I1-638 mb.104
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-11:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-01
Date Analyzed:	10/11/21	Data File:	101107.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-11:7	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-02
Date Analyzed:	10/11/21	Data File:	101108.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	106	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-11:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-03
Date Analyzed:	10/11/21	Data File:	101109.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	109	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-12:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-05
Date Analyzed:	10/11/21	Data File:	101110.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	0.064
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-12:7.5	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-06
Date Analyzed:	10/11/21	Data File:	101111.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-12:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-07
Date Analyzed:	10/11/21	Data File:	101112.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	110	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-13:1	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-09
Date Analyzed:	10/11/21	Data File:	101113.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-13:7	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-10
Date Analyzed:	10/11/21	Data File:	101114.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	105	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-13:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-11
Date Analyzed:	10/11/21	Data File:	101115.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-14:3	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-14
Date Analyzed:	10/11/21	Data File:	101116.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	109	89	112
4-Bromofluorobenzene	99	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-14:6	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-15
Date Analyzed:	10/11/21	Data File:	101117.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	110	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-14:12	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-16
Date Analyzed:	10/11/21	Data File:	101118.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	90	109
Toluene-d8	111	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-15:2	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-18
Date Analyzed:	10/11/21	Data File:	101119.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-15:6	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-19
Date Analyzed:	10/11/21	Data File:	101120.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	109	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-15:13.5	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-20
Date Analyzed:	10/11/21	Data File:	101121.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	108	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	01-2230 mb
Date Analyzed:	10/11/21	Data File:	101105.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	96	84	115

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	Ethylbenzene	<0.05
Acetone	<5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Hexane	<0.25	o-Xylene	<0.05
Methylene chloride	<0.5	Styrene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Isopropylbenzene	<0.05
trans-1,2-Dichloroethene	<0.05	Bromoform	<0.05
1,1-Dichloroethane	<0.05	n-Propylbenzene	<0.05
2,2-Dichloropropane	<0.05	Bromobenzene	<0.05
cis-1,2-Dichloroethene	<0.05	1,3,5-Trimethylbenzene	<0.05
Chloroform	<0.05	1,1,2,2-Tetrachloroethane	<0.05
2-Butanone (MEK)	<1	1,2,3-Trichloropropane	<0.05
1,2-Dichloroethane (EDC)	<0.05	2-Chlorotoluene	<0.05
1,1,1-Trichloroethane	<0.05	4-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	tert-Butylbenzene	<0.05
Carbon tetrachloride	<0.05	1,2,4-Trimethylbenzene	<0.05
Benzene	<0.03	sec-Butylbenzene	<0.05
Trichloroethene	<0.02	p-Isopropyltoluene	<0.05
1,2-Dichloropropane	<0.05	1,3-Dichlorobenzene	<0.05
Bromodichloromethane	<0.05	1,4-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,2-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<1	1,2-Dibromo-3-chloropropane	<0.5
cis-1,3-Dichloropropene	<0.05	1,2,4-Trichlorobenzene	<0.25
Toluene	<0.05	Hexachlorobutadiene	<0.25
trans-1,3-Dichloropropene	<0.05	Naphthalene	<0.05
1,1,2-Trichloroethane	<0.05	1,2,3-Trichlorobenzene	<0.25
2-Hexanone	<0.5		

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	B-11:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-04
Date Analyzed:	10/11/21	Data File:	101111.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	85	117
Toluene-d8	99	88	112
4-Bromofluorobenzene	98	90	111

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 ca	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:	B-12:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-08
Date Analyzed:	10/11/21	Data File:	101112.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	85	117
Toluene-d8	103	88	112
4-Bromofluorobenzene	97	90	111

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 ca	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:	B-13:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-12
Date Analyzed:	10/11/21	Data File:	101113.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	119	85	117
Toluene-d8	108	88	112
4-Bromofluorobenzene	98	90	111

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 ca	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:	B-14:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-17
Date Analyzed:	10/11/21	Data File:	101114.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	95	88	112
4-Bromofluorobenzene	96	90	111

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 ca	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:	B-15:GW	Client:	TRC Environmental
Date Received:	10/08/21	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	110161-21
Date Analyzed:	10/11/21	Data File:	101115.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	85	117
Toluene-d8	100	88	112
4-Bromofluorobenzene	92	90	111

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 ca	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:	Method Blank	Client:	TRC Environmental
Date Received:	Not Applicable	Project:	450521, F&BI 110161
Date Extracted:	10/11/21	Lab ID:	01-2231 mb
Date Analyzed:	10/11/21	Data File:	101108.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	WE

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	106	88	112
4-Bromofluorobenzene	98	90	111

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 ca	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: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110161-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	94	102	64-133	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	58-147

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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	88	96	63-142	9

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110138-01 (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	5.11	101	96	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	104	80-120

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110161-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	1.75	82	84	75-125	2
Cadmium	mg/kg (ppm)	10	<1	85	87	75-125	2
Chromium	mg/kg (ppm)	50	12.3	82	83	75-125	1
Lead	mg/kg (ppm)	50	2.49	80	80	75-125	0
Mercury	mg/kg (ppm	5	<1	94	94	75-125	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	86	80-120
Cadmium	mg/kg (ppm)	10	90	80-120
Chromium	mg/kg (ppm)	50	99	80-120
Lead	mg/kg (ppm)	50	90	80-120
Mercury	mg/kg (ppm)	5	101	80-120

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110138-01 (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	5.11	101	96	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	104	80-120

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110161-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	1	<0.5	19	18	10-142	5
Chloromethane	mg/kg (ppm)	1	<0.5	50	52	10-126	4
Vinyl chloride	mg/kg (ppm)	1	<0.05	49	52	10-138	6
Bromomethane	mg/kg (ppm)	1	<0.5	63	71	10-163	12
Chloroethane	mg/kg (ppm)	1	<0.5	61	64	10-176	5
Trichlorofluoromethane	mg/kg (ppm)	1	<0.5	55	57	10-176	4
Acetone	mg/kg (ppm)	5	<5	91	94	10-163	3
1,1-Dichloroethene	mg/kg (ppm)	1	<0.05	72	74	10-160	3
Hexane	mg/kg (ppm)	1	<0.25	50	57	10-137	13
Methylene chloride	mg/kg (ppm)	1	<0.5	89	33	10-156	92 vo
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	<0.05	99	103	21-145	4
trans-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	85	86	14-137	1
1,1-Dichloroethane	mg/kg (ppm)	1	<0.05	89	93	19-140	4
2,2-Dichloropropane	mg/kg (ppm)	1	<0.05	96	94	10-158	2
cis-1,2-Dichloroethene	mg/kg (ppm)	1	<0.05	88	91	25-135	3
Chloroform	mg/kg (ppm)	1	<0.05	91	95	21-145	4
2-Butanone (MEK)	mg/kg (ppm)	5	<1	94	103	19-147	9
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	<0.05	91	94	12-160	3
1,1,1-Trichloroethane	mg/kg (ppm)	1	<0.05	94	94	10-156	0
1,1-Dichloropropene	mg/kg (ppm)	1	<0.05	83	85	17-140	2
Carbon tetrachloride	mg/kg (ppm)	1	<0.05	91	96	9-164	5
Benzene	mg/kg (ppm)	1	<0.03	86	90	29-129	5
Trichloroethene	mg/kg (ppm)	1	<0.02	90	91	21-139	1
1,2-Dichloropropane	mg/kg (ppm)	1	<0.05	94	97	30-135	3
Bromodichloromethane	mg/kg (ppm)	1	<0.05	103	108	23-155	5
Dibromomethane	mg/kg (ppm)	1	<0.05	92	96	23-145	4
4-Methyl-2-pentanone	mg/kg (ppm)	5	<1	99	106	24-155	7
cis-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	101	106	28-144	5
Toluene	mg/kg (ppm)	1	<0.05	79	81	35-130	2
trans-1,3-Dichloropropene	mg/kg (ppm)	1	<0.05	93	94	26-149	1
1,1,2-Trichloroethane	mg/kg (ppm)	1	<0.05	85	91	10-205	7
2-Hexanone	mg/kg (ppm)	5	<0.5	91	99	15-166	8
1,3-Dichloropropane	mg/kg (ppm)	1	<0.05	82	85	31-137	4
Tetrachloroethene	mg/kg (ppm)	1	<0.025	78	83	20-133	6
Dibromochloromethane	mg/kg (ppm)	1	<0.05	97	100	28-150	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	<0.05	84	87	28-142	4
Chlorobenzene	mg/kg (ppm)	1	<0.05	82	88	32-129	7
Ethylbenzene	mg/kg (ppm)	1	<0.05	81	83	32-137	2
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	86	87	31-143	1
m,p-Xylene	mg/kg (ppm)	2	<0.1	81	83	34-136	2
o-Xylene	mg/kg (ppm)	1	<0.05	82	85	33-134	4
Styrene	mg/kg (ppm)	1	<0.05	84	88	35-137	5
Isopropylbenzene	mg/kg (ppm)	1	<0.05	82	86	31-142	5
Bromoform	mg/kg (ppm)	1	<0.05	100	102	21-156	2
n-Propylbenzene	mg/kg (ppm)	1	<0.05	78	79	23-146	1
Bromobenzene	mg/kg (ppm)	1	<0.05	79	80	34-130	1
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	<0.05	78	79	18-149	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	<0.05	84	85	28-140	1
1,2,3-Trichloropropane	mg/kg (ppm)	1	<0.05	80	81	25-144	1
2-Chlorotoluene	mg/kg (ppm)	1	<0.05	77	77	31-134	0
4-Chlorotoluene	mg/kg (ppm)	1	<0.05	78	79	31-136	1
tert-Butylbenzene	mg/kg (ppm)	1	<0.05	78	78	30-137	0
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	<0.05	79	80	10-182	1
sec-Butylbenzene	mg/kg (ppm)	1	<0.05	79	79	23-145	0
p-Isopropyltoluene	mg/kg (ppm)	1	<0.05	80	80	21-149	0
1,3-Dichlorobenzene	mg/kg (ppm)	1	<0.05	79	81	30-131	2
1,4-Dichlorobenzene	mg/kg (ppm)	1	<0.05	79	81	29-129	2
1,2-Dichlorobenzene	mg/kg (ppm)	1	<0.05	81	82	31-132	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	<0.5	89	92	11-161	3
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	<0.25	78	78	22-142	0
Hexachlorobutadiene	mg/kg (ppm)	1	<0.25	85	86	10-142	1
Naphthalene	mg/kg (ppm)	1	<0.05	81	81	14-157	0
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	<0.25	79	79	20-144	0

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	1	50	10-146
Chloromethane	mg/kg (ppm)	1	81	27-133
Vinyl chloride	mg/kg (ppm)	1	89	22-139
Bromomethane	mg/kg (ppm)	1	92	38-114
Chloroethane	mg/kg (ppm)	1	94	9-163
Trichlorofluoromethane	mg/kg (ppm)	1	98	10-196
Acetone	mg/kg (ppm)	5	112	52-141
1,1-Dichloroethene	mg/kg (ppm)	1	111	47-128
Hexane	mg/kg (ppm)	1	109	43-142
Methylene chloride	mg/kg (ppm)	1	129	10-184
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	1	121	60-123
trans-1,2-Dichloroethene	mg/kg (ppm)	1	120	67-129
1,1-Dichloroethane	mg/kg (ppm)	1	118 vo	68-115
2,2-Dichloropropane	mg/kg (ppm)	1	131	52-170
cis-1,2-Dichloroethene	mg/kg (ppm)	1	115	72-127
Chloroform	mg/kg (ppm)	1	117	66-120
2-Butanone (MEK)	mg/kg (ppm)	5	108	30-197
1,2-Dichloroethane (EDC)	mg/kg (ppm)	1	114	56-135
1,1,1-Trichloroethane	mg/kg (ppm)	1	123	62-131
1,1-Dichloropropene	mg/kg (ppm)	1	112	69-128
Carbon tetrachloride	mg/kg (ppm)	1	125	60-139
Benzene	mg/kg (ppm)	1	110	71-118
Trichloroethene	mg/kg (ppm)	1	116	63-121
1,2-Dichloropropane	mg/kg (ppm)	1	112	72-127
Bromodichloromethane	mg/kg (ppm)	1	127 vo	57-126
Dibromomethane	mg/kg (ppm)	1	113	62-123
4-Methyl-2-pentanone	mg/kg (ppm)	5	113	45-145
cis-1,3-Dichloropropene	mg/kg (ppm)	1	122	67-122
Toluene	mg/kg (ppm)	1	99	66-126
trans-1,3-Dichloropropene	mg/kg (ppm)	1	113	72-132
1,1,2-Trichloroethane	mg/kg (ppm)	1	106	64-115
2-Hexanone	mg/kg (ppm)	5	100	33-152
1,3-Dichloropropane	mg/kg (ppm)	1	99	72-130
Tetrachloroethene	mg/kg (ppm)	1	101	72-114
Dibromochloromethane	mg/kg (ppm)	1	122 vo	55-121
1,2-Dibromoethane (EDB)	mg/kg (ppm)	1	102	74-132
Chlorobenzene	mg/kg (ppm)	1	99	76-111
Ethylbenzene	mg/kg (ppm)	1	97	64-123
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	1	106	64-121
m,p-Xylene	mg/kg (ppm)	2	100	78-122
o-Xylene	mg/kg (ppm)	1	102	77-124
Styrene	mg/kg (ppm)	1	101	74-126
Isopropylbenzene	mg/kg (ppm)	1	101	76-127
Bromoform	mg/kg (ppm)	1	123	56-132
n-Propylbenzene	mg/kg (ppm)	1	92	74-124
Bromobenzene	mg/kg (ppm)	1	91	72-122
1,3,5-Trimethylbenzene	mg/kg (ppm)	1	92	76-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	1	96	56-143
1,2,3-Trichloropropane	mg/kg (ppm)	1	93	61-137
2-Chlorotoluene	mg/kg (ppm)	1	91	74-121
4-Chlorotoluene	mg/kg (ppm)	1	91	75-122
tert-Butylbenzene	mg/kg (ppm)	1	92	73-130
1,2,4-Trimethylbenzene	mg/kg (ppm)	1	92	76-125
sec-Butylbenzene	mg/kg (ppm)	1	92	71-130
p-Isopropyltoluene	mg/kg (ppm)	1	94	70-132
1,3-Dichlorobenzene	mg/kg (ppm)	1	93	75-121
1,4-Dichlorobenzene	mg/kg (ppm)	1	93	74-117
1,2-Dichlorobenzene	mg/kg (ppm)	1	94	76-121
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	1	111	58-138
1,2,4-Trichlorobenzene	mg/kg (ppm)	1	91	64-135
Hexachlorobutadiene	mg/kg (ppm)	1	97	50-153
Naphthalene	mg/kg (ppm)	1	95	63-140
1,2,3-Trichlorobenzene	mg/kg (ppm)	1	91	63-138

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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

Laboratory Code: 110161-04 (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	89	50-150
Vinyl chloride	ug/L (ppb)	10	<0.02	85	16-176
Bromomethane	ug/L (ppb)	10	<5	82	10-193
Chloroethane	ug/L (ppb)	10	<1	84	50-150
Trichlorofluoromethane	ug/L (ppb)	10	<1	84	50-150
Acetone	ug/L (ppb)	50	<50	65	15-179
1,1-Dichloroethene	ug/L (ppb)	10	<1	80	50-150
Hexane	ug/L (ppb)	10	<5	73	49-161
Methylene chloride	ug/L (ppb)	10	<5	167 vo	40-143
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	<1	80	50-150
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	79	50-150
1,1-Dichloroethane	ug/L (ppb)	10	<1	80	50-150
2,2-Dichloropropane	ug/L (ppb)	10	<1	83	10-335
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	82	50-150
Chloroform	ug/L (ppb)	10	<1	80	50-150
2-Butanone (MEK)	ug/L (ppb)	50	<20	75	34-168
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	<0.2	89	50-150
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	86	50-150
1,1-Dichloropropene	ug/L (ppb)	10	<1	82	50-150
Carbon tetrachloride	ug/L (ppb)	10	<0.5	83	50-150
Benzene	ug/L (ppb)	10	<0.35	82	50-150
Trichloroethene	ug/L (ppb)	10	<0.5	84	43-133
1,2-Dichloropropane	ug/L (ppb)	10	<1	87	50-150
Bromodichloromethane	ug/L (ppb)	10	<0.5	90	50-150
Dibromomethane	ug/L (ppb)	10	<1	89	50-150
4-Methyl-2-pentanone	ug/L (ppb)	50	<10	102	50-150
cis-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	86	48-145
Toluene	ug/L (ppb)	10	<1	85	50-150
trans-1,3-Dichloropropene	ug/L (ppb)	10	<0.4	91	37-152
1,1,2-Trichloroethane	ug/L (ppb)	10	<0.5	97	50-150
2-Hexanone	ug/L (ppb)	50	<10	105	50-150
1,3-Dichloropropane	ug/L (ppb)	10	<1	92	50-150
Tetrachloroethene	ug/L (ppb)	10	<1	88	50-150
Dibromochloromethane	ug/L (ppb)	10	<0.5	96	33-164
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	<1	94	50-150
Chlorobenzene	ug/L (ppb)	10	<1	91	50-150
Ethylbenzene	ug/L (ppb)	10	<1	88	50-150
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	<1	93	50-150
m,p-Xylene	ug/L (ppb)	20	<2	91	50-150
o-Xylene	ug/L (ppb)	10	<1	88	50-150
Styrene	ug/L (ppb)	10	<1	91	50-150
Isopropylbenzene	ug/L (ppb)	10	<1	88	50-150
Bromoform	ug/L (ppb)	10	<5	97	23-161
n-Propylbenzene	ug/L (ppb)	10	<1	87	50-150
Bromobenzene	ug/L (ppb)	10	<1	88	50-150
1,3,5-Trimethylbenzene	ug/L (ppb)	10	<1	90	50-150
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	<0.2	97	10-235
1,2,3-Trichloropropane	ug/L (ppb)	10	<1	96	33-151
2-Chlorotoluene	ug/L (ppb)	10	<1	88	50-150
4-Chlorotoluene	ug/L (ppb)	10	<1	89	50-150
tert-Butylbenzene	ug/L (ppb)	10	<1	82	50-150
1,2,4-Trimethylbenzene	ug/L (ppb)	10	<1	90	50-150
sec-Butylbenzene	ug/L (ppb)	10	<1	87	46-139
p-Isopropyltoluene	ug/L (ppb)	10	<1	88	46-140
1,3-Dichlorobenzene	ug/L (ppb)	10	<1	93	50-150
1,4-Dichlorobenzene	ug/L (ppb)	10	<1	94	50-150
1,2-Dichlorobenzene	ug/L (ppb)	10	<1	91	50-150
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	<10	91	50-150
1,2,4-Trichlorobenzene	ug/L (ppb)	10	<1	80	50-150
Hexachlorobutadiene	ug/L (ppb)	10	<0.5	80	42-150
Naphthalene	ug/L (ppb)	10	<1	76	50-150
1,2,3-Trichlorobenzene	ug/L (ppb)	10	<1	78	44-155

Date of Report: 10/12/21
Date Received: 10/08/21
Project: 450521 APD Kirkland, F&BI 110161

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	117	118	70-130	1
Chloromethane	ug/L (ppb)	10	114	112	70-130	2
Vinyl chloride	ug/L (ppb)	10	111	111	70-130	0
Bromomethane	ug/L (ppb)	10	119	119	28-182	0
Chloroethane	ug/L (ppb)	10	99	100	70-130	1
Trichlorofluoromethane	ug/L (ppb)	10	103	111	70-130	7
Acetone	ug/L (ppb)	50	82	78	42-155	5
1,1-Dichloroethene	ug/L (ppb)	10	102	106	70-130	4
Hexane	ug/L (ppb)	10	109	93	50-161	16
Methylene chloride	ug/L (ppb)	10	116	120	29-192	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	10	99	99	70-130	0
trans-1,2-Dichloroethene	ug/L (ppb)	10	99	99	70-130	0
1,1-Dichloroethane	ug/L (ppb)	10	98	98	70-130	0
2,2-Dichloropropane	ug/L (ppb)	10	104	104	70-130	0
cis-1,2-Dichloroethene	ug/L (ppb)	10	99	99	70-130	0
Chloroform	ug/L (ppb)	10	93	93	70-130	0
2-Butanone (MEK)	ug/L (ppb)	50	101	98	50-157	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	99	99	70-130	0
1,1,1-Trichloroethane	ug/L (ppb)	10	99	99	70-130	0
1,1-Dichloropropene	ug/L (ppb)	10	96	96	70-130	0
Carbon tetrachloride	ug/L (ppb)	10	94	95	70-130	1
Benzene	ug/L (ppb)	10	96	96	70-130	0
Trichloroethene	ug/L (ppb)	10	98	98	70-130	0
1,2-Dichloropropane	ug/L (ppb)	10	102	103	70-130	1
Bromodichloromethane	ug/L (ppb)	10	103	105	70-130	2
Dibromomethane	ug/L (ppb)	10	103	105	70-130	2
4-Methyl-2-pentanone	ug/L (ppb)	50	117	118	70-130	1
cis-1,3-Dichloropropene	ug/L (ppb)	10	100	103	70-130	3
Toluene	ug/L (ppb)	10	88	89	70-130	1
trans-1,3-Dichloropropene	ug/L (ppb)	10	94	95	70-130	1
1,1,2-Trichloroethane	ug/L (ppb)	10	97	98	70-130	1
2-Hexanone	ug/L (ppb)	50	102	102	69-130	0
1,3-Dichloropropane	ug/L (ppb)	10	90	91	70-130	1
Tetrachloroethene	ug/L (ppb)	10	93	95	70-130	2
Dibromochloromethane	ug/L (ppb)	10	97	99	63-142	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	10	94	94	70-130	0
Chlorobenzene	ug/L (ppb)	10	94	93	70-130	1
Ethylbenzene	ug/L (ppb)	10	90	92	70-130	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	10	93	95	70-130	2
m,p-Xylene	ug/L (ppb)	20	93	94	70-130	1
o-Xylene	ug/L (ppb)	10	90	91	70-130	1
Styrene	ug/L (ppb)	10	92	94	70-130	2
Isopropylbenzene	ug/L (ppb)	10	91	90	70-130	1
Bromoform	ug/L (ppb)	10	101	101	50-157	0
n-Propylbenzene	ug/L (ppb)	10	89	88	70-130	1
Bromobenzene	ug/L (ppb)	10	87	90	70-130	3
1,3,5-Trimethylbenzene	ug/L (ppb)	10	91	92	52-150	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	10	96	97	70-130	1
1,2,3-Trichloropropane	ug/L (ppb)	10	92	93	70-130	1
2-Chlorotoluene	ug/L (ppb)	10	88	88	70-130	0
4-Chlorotoluene	ug/L (ppb)	10	89	90	70-130	1
tert-Butylbenzene	ug/L (ppb)	10	85	86	70-130	1
1,2,4-Trimethylbenzene	ug/L (ppb)	10	90	90	70-130	0
sec-Butylbenzene	ug/L (ppb)	10	89	90	70-130	1
p-Isopropyltoluene	ug/L (ppb)	10	89	90	70-130	1
1,3-Dichlorobenzene	ug/L (ppb)	10	93	94	70-130	1
1,4-Dichlorobenzene	ug/L (ppb)	10	94	95	70-130	1
1,2-Dichlorobenzene	ug/L (ppb)	10	90	92	70-130	2
1,2-Dibromo-3-chloropropane	ug/L (ppb)	10	95	96	70-130	1
1,2,4-Trichlorobenzene	ug/L (ppb)	10	93	92	70-130	1
Hexachlorobutadiene	ug/L (ppb)	10	100	98	70-130	2
Naphthalene	ug/L (ppb)	10	92	92	70-130	0
1,2,3-Trichlorobenzene	ug/L (ppb)	10	95	95	69-143	0

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.

110161

SAMPLE CHAIN OF CUSTODY

10-08-21 AI6/E04/VW4/B VS2

Page # 1 of 2

Report To Keith Woodburne

Company TRC

Address 1180 NW Maple St, Suite 310

City, State, ZIP Issaquah, WA 98027

Phone (425) 395-0010 Email KWoodburne@trccompanies.com cc: CMoon@trccompanies.com

SAMPLERS (*signature*) NT/M

PROJECT NAME 450521 APD Kirkland

PO #

REMARKS

INVOICE TO

Project specific RLs? - Yes / No

TURNAROUND TIME
- ☐ Standard turnaround
- ☒ RUSH 48 hours
- 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: PEO, ORO NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Metals	Total Arsenic	Dissolved Arsenic		Notes
B-11:1	01 A-E	10/7/21	0942	soil	5	X				X			X				
B-11:7	02		0947			X				X			X				
B-11:12	03		0955			X				X			X				
B-11:GW	04 A-I		1050	water	9	X				X				X	X		Field Filtered for Dissolved Arsenic
B-12:1	05 A-E		1120	soil	5	X				X			X				
B-12:7.5	06		1125			X				X			X				
B-12:12	07		1130			X				X			X				
B-12:GW	08 A-I		1136	water	9	X				X				X	X		Field Filtered for Dissolved Arsenic
B-13:1	09 A-E		1204	soil	5	X				X			X				
B-13:7	10		1212			X				X			X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: NT/M	NATE DORFNER	TRC	10/8/21	0630
~~Received by:~~	Michael E-Gahl	F1 Bru	10/8/21	0630
Relinquished by:				
Received by:		Samples received at 4 °C		

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

110161

SAMPLE CHAIN OF CUSTODY

10-08-21 AI6/E04

Page # 2 of 3

Report To Keith Woodburne

Company TRC

Address 1180 NW Maple St, Suite 310

City, State, ZIP Issaquah, WA 98027

Phone (425) 395-0010 Email KWoodburne@trccompanies.com cc: CMoon@trccompanies.com

SAMPLERS (*signature*) NFT

PROJECT NAME 450521 APD Kirkland

PO #

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME
☐ Standard turnaround
☒ RUSH 48 hours
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: Pro, ORO NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Metals	Total Arsenic	Dissolved Arsenic		Notes
B-13:12	11 A-E	10/7/21	1220	soil	5	X				X			X				
B-13:GW	12 A-I		1230	water	9	X				X				X	X		Field Filtered For Dissolved Arsenic
B-14:1	13 A-E		1315	soil	5												HOLD
B-14:3	14		1322			X				X			X				
B-14:6	15		1327			X				X			X				
B-14:12	16		1343			X				X			X				
B-14:GW	17 A-I		1350	water	9	X				X				X	X		Field Filtered For Dissolved Arsenic
B-15:2	18 A-E		1508	soil	5	X				X			X				
B-15:6	19		1515			X				X			X				
B-15:13.5	20		1534			X				X			X				

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: NFT	NATE DORFNER	TRC	10/8/21	0630
Received by:	Michael Eacht	FIBrs	10/8/21	0630
Relinquished by:				
Received by:		Samples received at 4 °C		

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

110161

SAMPLE CHAIN OF CUSTODY

10-08-21 AIG/EDG/WWU/VSZ

Page # 3 of 3

Report To Keith Woodburne

Company TRC

Address 1180 NW Maple St, Suite 310

City, State, ZIP Issaquah, WA 98027

Phone (425) 395-0010 Email KWoodburne@trcompanies.com cc: CMoon@trcompanies.com

SAMPLERS (*signature*) NKT

PROJECT NAME 450521 APD Kirkland

PO #

REMARKS

Project specific RLs? - Yes / No

INVOICE TO

TURNAROUND TIME

☐ Standard turnaround

☒ RUSH 48 hours

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 (acid, silica gel)	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	MTCA 5 Metals	Total Arsenic	Dissolved Arsenic		Notes
B-15: GW	21A-I	10/7/21	1540	water	9	x				x				x	x		Field Filtered for Dissolved Arsenic

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: NKT	NATE DORFNER	TRC	10/8/21	0630
Received by: Michael Fuchs	Michael Fuchs	FCBI	10/8/21	0630
Relinquished by:				
Received by:		Samples received at 4		°C

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