PERIODIC REVIEW REPORT
FEBRUARY 2020 – SEPTEMBER 2021

34 FREEMAN'S BRIDGE ROAD
GLENVILLE, NEW YORK 12302

NYSDEC Site No. 447028
Work Assignment No. D009812-04

Prepared for:

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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TRC Project No. 386554

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LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
COCs	Contaminants of Concern
C&D	Construction and Demolition
DER	Division of Environmental Remediation
DTW	Depth to Water
DUSRs	Data Usability Summary Reports
ECs	Engineering Controls
EN	Environmental Notice
FS	Feasibility Study
ft. bgs.	Feet Below Ground Surface
GPS	Global Positioning System
ICs	Institutional Controls
ID	Identification
NA	Not Available
NAPL	Non-aqueous Phase Liquid
ND	Not detected
NETC	Northeastern Environmental Technologies Corporation
ηg/L	Nanograms per liter
NOV	Notice of Violation
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
PRP	Potentially Responsible Party
PRR	Periodic Review Report
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
RI	Remedial Investigation
ROD	Record of Decision
SCG	Standard, Criteria and Guidance
SCOs	Soil Cleanup Objectives
SIM	Selected Ion Monitoring
SMP	Site Management Plan
SMR	Site Management Report
SVOCs	Semi-volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TICs	Tentatively Identified Compounds
TOC	Top of Casing
TRC	TRC Engineers, Inc.
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

WA	Work Assignment
µg/L	micrograms per liter

Executive Summary

Category	Summary/Results
Engineering Control	• Fencing/Access Control • Signage • Monitoring Wells • Demarcation Sheeting over Soils with SCG Exceedances
Institutional Control	• Site Use Restriction through an Environmental Notice (March 2013) • Soil Management Plan • Groundwater Use Restriction • Groundwater Monitoring • Notification • Certification Reporting
Site Classification	Class 4
Site Management Plan	SMP – July 2008
Certification/Reporting Period	Per the SMP, the Certification Period is defined as annual. The 2012 Periodic Review Report (PRR) recommended a reporting frequency of every five years.
Inspection	**Frequency**
Site Inspection	Every monitoring event
Monitoring	**Frequency**
Groundwater	Every 5 quarters
Prior PRR Recommendations	The July 2012 PRR included the following recommendations: • Groundwater monitoring should continue to be performed at the interval established in the site-specific SMP or as directed by the NYSDEC until adequate attenuation of contamination has been achieved at the Site. The sampling should include wells all of the Site groundwater monitoring wells. • The undocumented, waste management practices of the veterinary clinic are a potential source of ammonia detected in the groundwater samples collected from MW-20 in March 2020. The potential impact of the veterinary clinic on MW-20 should be investigated further. • MW-15D no longer has a flush mount well cover or a J-Plug protecting the polyvinyl chloride (PVC) riser. A new flush mount well cover, and J-Plug should be installed at MW-15D prior to the next groundwater sampling event. • MW-18 was negatively impacted with a lawn tractor during mowing activities and is no longer accessible for measuring depth-to-groundwater due to damage to the riser. The measuring point elevation for MW-18 is no longer applicable and the groundwater elevation is not calculable. As a result, MW-18 is not included in the groundwater contour map for the shallow zone (Figure 3). However, the monitoring well can still be sampled with dedicated, polyethylene tubing and a peristaltic pump. MW-18 should be repaired, resurveyed, and included in the next depth-to-groundwater measurements. • There are not an acceptable number of signs displayed on the fence surrounding most of the Site. Additional signs should be posted in the near future. • PRR reporting should be conducted every five years, and groundwater sampling/site inspection reports conducted every monitoring event. The remedy includes long-term monitoring, which serves as a sentinel for public or private water supplies.

	• There are currently no buildings on-site. Should any buildings be constructed on-site, depending on location, the NYSDOH's Final Guidance for Evaluating Soil Vapor Intrusion in New York State (2006) may require the installation of a remedy prior to occupancy.
Recent Site Activities	• November 15, 2019 – The NYSDEC issued a NOV to the property owner in response to the presence of undocumented fill and damage to Site monitoring wells. • June 24, 2020 – The Site owner's consultant, Northeastern Environmental Technologies Corporation of Ballston Spa, NY (NETC) submitted a Work Plan proposing to investigate potential contamination in association with the undocumented imported fill. The Work Plan was approved by the NYSDEC on July 8, 2020. • July 31 & August 3, 2020 – NETC completed the proposed test pit and fill sampling program in accordance with NYSDEC approved June 2020 Work Plan. The results of the sampling program, in addition to a Work Plan addressing repairs to the affected monitoring wells, were submitted in the September 2020 Fill Sampling Letter Report (dated November 24, 2020). • January 12, 2021 – NETC abandoned monitoring well MW-12 and repaired MW-21, MW-21D, MW-30, and MW-32 (included the leveling the ground surface surrounding the effected wells in addition to the installation of replacement above-ground PVC riser pipe and protective casings). As a result of the repair work, the Site owner's engineer, ABD Engineers, LLC resurveyed the top of casing elevations for MW-21, MW-21D, MW-30, and MW-32. The results of the repair activities were presented to the NYSDEC in a March 9, 2021 letter. • April 6, 2021 – The NYSDEC issued a letter to the Site owner to notify them that all violations in association with the November 15, 2019 NOV were satisfied. • April 22, 2021 – TRC reviewed historical groundwater analytical completed to date at the Site and recommended a reduction in both the number of wells to be sampled and analytes for analysis during the 2021 groundwater sampling event. The NYSDEC approved of this reduction in an email dated April 23, 2021. • May 24 and 25,2021 – TRC completed a Site inspection, 1 synoptic round of groundwater level measurements, and collected groundwater samples from 14 wells for varying analyses.
Significant Findings or Concerns	No significant findings or concerns were identified during the May 24 and 25, 2021 site visit.
Recommendations	• Based on current and historic groundwater analytical results, COCs including SVOCs, pesticides, PCBs, and 1,4-dioxane, have either not been detected above their respective SCGs, or have been detected slightly above criteria and decreased or remained stable. As such, it is recommended that these analytes be removed from the analysis suite for future monitoring events. • The frequency of routine Site inspections should be increased from every five quarters to annually. Due to the recent fill-in activities and NOV resolution with the Site owner, the Site should be inspected to assess the presence of fill, grading at the site, and status of monitoring wells. • The frequency of groundwater sampling should be reduced from every five quarters to every three years. • The frequency of PRRs should be remain at every five years. It is recommended that the certification period for the next PRR covers the reporting period between October 1, 2021 to October 1, 2026. • During years where groundwater sampling and/or Site inspections are completed and a PRR is not required, a brief Site Management Report (SMR) summarizing the monitoring activities and results should be submitted. During years where both a SMR and PRR are required, a SMR will not be submitted.

	• Due to the known current/historical groundwater concentration trends in all Site monitoring wells, the well network selected for analytical testing should be based upon the presence of continued COC exceedances. • The July 2008 SMP should be revised to reflect the above changes/modifications, if the changed are acceptable to the NYSDEC.
Cost Evaluation	The total cost of the site management activities during this reporting period was $34,200. This cost includes engineering (e.g., labor and expense) and subcontractor costs (e.g., laboratory, equipment, rentals, etc.). It should be noted that this total does not include any direct costs incurred by the NYSDEC.

1.0 Introduction

This PRR has been prepared for the 34 Freeman's Bridge Road Site (the Site) and covers the period February 2020 through September 2021. This PRR was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC) Department of Environmental Remediation (DER) Work Assignment No. D009812-04 and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation. A summary of applicable Site and remedial program information is presented below:

Site Information			
Site Name:	34 Freeman's Bridge Road	**NYSDEC Site No:**	447028
Site Location:	34 Freeman's Bridge Road, Glenville, Schenectady County, NY	**Remedial Program:**	State Superfund Program
Site Type:	Dump Structure	**Classification:**	04
Parcel Identification(s):	30.19-1-26.1 (34 Freeman's Bridge Road), Schenectady County Tax Maps	**Parcel Acreage / EE Acreage:**	12
Selected Remedy:	Excavation and removal of contaminated soils, groundwater, and NAPLs, on-site thermal treatment, stabilization of treated soils, backfill of excavation with treated soils, site restoration, groundwater monitoring, and short-term institutional controls on groundwater usage.	**Site COC(s):**	• VOCs • SVOCs • Metals • PCBs
Current Remedial Program Phase:	Post RA Site Monitoring; Site Management	**Institutional Controls:**	• Environmental Notice (2014) • SMP (2008)
Post-Remediation Monitoring and Sampling Frequency:	Every 5 Quarters – Groundwater sampling and Site Inspection	**Engineering Controls:**	Fencing/Access Controls and Signage
Monitoring Locations:	19 Monitoring Wells	**Required Reporting:**	PRR – Every five years

1.1 Site Location, Ownership, and Description

The Site is located at 34 Freeman's Bridge Road in the Glenville, Schenectady County, New York and is approximately 12 acres in size. The Site is recognized as Tax Map ID # 30.19-1-26.1 on the Schenectady County Tax Map. The current owner of the parcel is listed as P & J Glenville Corporation in the Schenectady County Tax Records.

The Site is generally flat and covered with grass, small bushes, and trees along the perimeter. The former building and associated parking areas were located in the extreme southwest corner of the property. A thick layer of contaminated soil and construction and demolition (C&D) debris covered most of the property and several adjacent properties. In late 2019, NYSDEC discovered that substantial amounts of undocumented fill were imported and spread throughout the central portion of the Site. These activities, in addition to the identification of damaged monitoring wells MW-12, MW-21, MW-21D, MW-30, and MW-32, were the subject of a Notice of Violation (NOV) sent to the Site owner, by the NYSDEC on November 15, 2019.

To the north of the property is Maple Avenue, with residential and commercial properties. To the west of the property is Freeman's Bridge Road, with residential and commercial properties. To the east of the property are the Delaware and Hudson Railroad, and Niagara Mohawk power line right-of-ways and an asphalt emulsion business. The nearest residential dwelling is located approximately 450 feet from the Site. Warner Creek (also known as Kromme Creek), located northwest of the Site, is a Mohawk River tributary. A portion of the property is included with Warner Creek's watershed. The Mohawk River approaches within 300 feet of the Site at its closest point. Site Location and Site Layout maps are provided on **Figures 1** and **2**, respectively.

1.2 Investigation/Remedial History

The 34 Freeman's Bridge Road Site was previously used as a drum recycling facility as far back as the late 1950's when the Kitchton Company occupied the Site, taking in used 55-gallon drums, emptying residuals into pits and on the ground surface, cleaning the drums, and painting and recycling them for reuse. The property was later purchased in 1978 by Lyon Ventures, Inc. who also stored drummed waste on-Site, and received a substantial amount of fill and C&D materials that were spread on at least four acres of the parcel. The depth of the fill and debris was estimated to range up to approximately 6 to 8 feet, as seen in low laying areas in the southeastern portion of the Site. Large pieces of concrete and asphalt were visible at the fill boundary along the power right-of-way. Nearly all areas where residual materials were disposed of by the Kitchton Company were buried beneath the 6 to 8-foot layer of C&D debris on-Site by Lyons Ventures, Inc. More recently, the Site was used as a surplus and salvage business dealing mostly with used office furniture which was stored in the on-Site building.

Intentional or incidental release of residual wastes from drum recycling and fill disposal activities at the Site contaminated soil and shallow groundwater with significant levels of various solvents and polychlorinated biphenyls (PCBs) exceeding applicable standard and guidance values. Several investigations, with NYSDEC participation, occurred at the and have revealed contamination at the Site.

In 1984 and 1985 the Site was first listed on the Registry of Inactive Hazardous Waste Sites as a Class 5 Site due to the presence of drummed wastes. An emergency removal of 12 55-gallon drums was conducted after an April 1989 inspection of the property revealed approximately 80 55-gallon drums of waste. The Site was then taken back off the registry.

In 1996, the property was considered for a voluntary clean-up program. Subsequent investigation work, including digging 30 test pits, by Touhey Associates and their consultant, The Environmental Design Partnership, revealed contamination present on four acres, including polychlorinated biphenyls (PCBs) in the sub-surface soils in excess of 100 parts per million (ppm). The New York State Department of Health (NYSDOH) sampled four residential and one commercial drinking well for volatile organic compound (VOC) contamination. Results were non-detectable for the VOCs analyzed.

In June 1996, NYSDEC issued an Immediate Investigation Work Assignment that revealed surface and subsurface soil PCB concentrations at levels up to 33 ppm and 980 ppm, respectively. Parsons Engineering Science, Inc., contractor to NYSDEC, installed seven monitoring wells and numerous soil gas monitoring points as part of their investigation. Twenty-five surface and 25 subsurface samples were collected and analyzed. Exceedances of benzene (53 ppm), toluene (6,300 ppm), ethylbenzene (2,500 ppm), xylene (16,000 ppm), and phenol (330 ppm) were detected in the soil samples. Groundwater at the Site was found to contain significant levels of dichloroethylene, benzene (150 ppb), toluene (1,200 ppb), ethylbenzene (400 ppb), xylene (2,000 ppb), phenol (12,000 ppb), and semi-volatile compounds (SVOCs). PCBs in groundwater were reported at levels up to 280 ppb. Free product was reported in one monitoring well (MW-4, 4 inches of non-aqueous phase liquid (NAPL)). The investigation identified two areas with PCB surface soil levels greater than 1 ppm: 0.25 acres north of MW-6 and 0.33 acres east of MW-5.

In December 1996, the Site was re-listed as a Class 2 Inactive Hazardous Waste Site by NYSDEC. Disposal of wastes on-Site as a result of previous activities are documented in the registry as benzene, xylene, toluene, phenol, ethylbenzene, and PCBs.

In 1997, the NYSDEC Division of Environmental Enforcement, completed a Potentially Responsible Party (PRP) search which identified Lyons Ventures, Inc., and 'all those associated' as the PRP's for the Freeman's Bridge Site.

Due to the nature of the on-Site activities, and lack of record keeping, the following potentially hazardous substances (and potential sources/uses) appear to have been stored, used, and disposed of on the property at various times:

- Petroleum derived fuels and oils (lubricants, generators, equipment operations, stored drummed waste, drum recycling operations).
- Chlorinated solvents (cleaning agents, painting operations, stored drummed waste, drum recycling operations).
- PCBs (hydraulic oils, roadway oils and debris, stored drummed waste, drum recycling operations).
- Phenols (stored drum waste, drum recycling operations).

Based on the disposal and/or storage of some or all of these materials over the extensive period of active operation of this facility, the potential for release of one or more of these substances was considered high. NYSDOH identified the potential for exposure to contaminants in on-Site soils at levels which pose a public health concern. Dense NAPL was reported in several on-Site monitoring wells.

In May 1999, NYSDEC observed the installation of three soil borings during construction activities for a new sewer line project. Borings contained gravel to approximately 5 feet below ground surface (bgs) followed by clay to a depth of 13 feet bgs. Soil samples collected from the borings had detections of PCBs and benzene, toluene, ethylbenzene, and xylenes (BTEX).

The Remedial Investigation/Feasibility Study (RI/FS) for the Site was initiated in 2000 and culminated with a report issued to the NYSDEC in January 2004. The RI/FS was conducted in two phases (Phase I and Phase II). Phase I of the RI/FS included:

- Preparation of a Site Base Map and research of historical information.
- Geophysical Survey.
- Test Pits.
- Monitoring Well Installation.
- Groundwater Sampling and Analysis.
- Direct Push Technology Soil Borings.
- Surface Water and Sediment Sampling.

Phase II or the supplemental field investigation of the RI/FS included:

- Direct Push Technology Soil Borings.
- Test Pits.
- Monitoring Well Installation.
- Well Abandonment.

- Groundwater Sampling and Analysis.
- Surface Water and Sediment Sampling.
- Hydraulic Conductivity Tests.

The Record of Decision (ROD) was issued by the NYSDEC in March 2004. The site-specific contaminants of concern (COCs) identified in the ROD were VOCs, SVOCs, PCBs, and metals. The remedies discussed in the ROD were selected to eliminate or mitigate all significant threats to public health and/or the environment presented by the hazardous waste disposed at the Site through the proper application of scientific and engineering principles.

The selected remedy for the 34 Freeman's Bridge Road Site, per the 2004 ROD, was excavation and on-Site thermal treatment and stabilization of groundwater, surface soil, sub-surface soil, surface water, and sediment contamination. Activities associated with the selected remedy consisted of:

- Installation of trenches/wells to remove NAPL and groundwater from main source area.
- Construction of temporary water treatment system to handle liquids.
- Excavation of contaminated soil and debris.
- Performing on-Site low temperature thermal treatment and stabilization on contaminated soil.
- Backfill and restoration of property with treated soil, topsoil, and vegetation.
- Monitoring to confirm no further potential impacts.
- Installation of institutional controls such as future groundwater use restrictions.

After the ROD was issued, the following activities were performed:

- A Work Plan was developed, and implementation of the preferred remediation alternative began in November 2006 and was completed in October 2007. In addition to treating over 75,000 tons of hazardous and non-hazardous soils, over 9 million gallons of groundwater from the Site operations were treated by the on-site wastewater treatment plant and discharged into the Warner Creek in accordance with the NYSDEC approved Site Dewatering Plan.
- No treatment systems or other facilities were left in place upon completion of the project, and the Site was restored as an open, grass-covered field, except for a gravel drive and parking area.
- A Site Management Plan (SMP) was developed for the Site and approved by the NYSDEC in July 2008. Groundwater monitoring wells and sub-surface soil vapor points were installed accordingly, and a Post Remediation Field Investigation Report was submitted in September 2008.

- In accordance with the SMP, the network of groundwater monitoring wells were sampled in 2012. The sampling and reporting schedule changed to an annual event and subsequently revised by the NYSDEC to sampling every five quarters.

In late 2019, National Grid determined that filling operations were being conducted by the property owner on the Site. These filling operations were conducted over an unknown period of time and were likely the cause of damage to MW-12. Additionally, monitoring wells MW-21, MW-21D, MW-30, and MW-32 were found to be in poor condition as a result of the filling operation. As a result, the NYSDEC issued a NOV to the property owner in response to the presence of undocumented fill and damage to Site monitoring wells on November 15, 2019.

To address issues identified in the NOV, the Site owner's consultant, Northeastern Environmental Technologies Corporation of Ballston Spa, NY (NETC) submitted a Work Plan on June 24, 2020 proposing to investigate potential contamination in association with the undocumented imported fill. The Work Plan was approved by the NYSDEC on July 8, 2020.

On July 31 and August 3, 2020, NETC completed the proposed test pit and fill sampling program in accordance with NYSDEC approved June 2020 Work Plan. The results of the sampling program, in addition to a Work Plan addressing repairs to the affected monitoring wells, were submitted in the September 2020 Fill Sampling Letter Report (dated November 24, 2020).

On January 12, 2021, NETC abandoned monitoring well MW-12 and repaired MW-21, MW-21D, MW-30, and MW-32 (included the leveling the ground surface surrounding the effected wells in addition to the installation of replacement above-ground PVC riser pipe and protective casings). As a result of the repair work, the Site owner's engineer, ABD Engineers, LLC resurveyed the top of casing elevations for MW-21, MW-21D, MW-30, and MW-32. The results of the repair activities were presented to the NYSDEC in a March 9, 2021 letter.

On April 6, 2021, the NYSDEC issued a letter to the Site owner to notify them that all violations in association with the November 15, 2019 NOV were satisfied.

A custodial record detailing known and available Site reports, are included in **Appendix A.**

1.3 Remaining Contamination

Remediation at the Site is complete. Prior to remediation, the primary contaminants of concern were VOCs, SVOCs, PCBs and metals in groundwater, soil (surface and subsurface), and sediment. Remedial actions have successfully achieved soil cleanup objectives (SCOs) for commercial use. Residual contamination of Site COCs in soil and groundwater are managed under the 2008 SMP.

1.4 Regulatory Requirements/Cleanup Goals

Goals for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375-1.10. At a minimum, the remedy selected must eliminate or mitigate all significant threats to public health and/or the environment presented by the hazardous waste disposed at the Site through the proper application of scientific and engineering principles.

The remediation goals for this Site are to eliminate or reduce to the extent practicable:

- Exposures of persons at or around the Site to PCBs, VOCs, SVOCs, and metals in wastes, contaminated surface soil, subsurface soil, soil vapor, groundwater, and NAPL.
- The release of contaminants from soil into groundwater that may create exceedances of groundwater quality standard.
- The release or migration of contaminants from Site soils and wastes into groundwater, surface water, and ambient air.

Further, the remediation goals for the Site include:

- Attaining to the extent practicable, ambient groundwater and surface water quality standards and applicable cleanup criteria and guidelines for soil.
- Eliminating, to the extent practicable, the potential for contaminated groundwater, which does not meet NYSDOH Part 5 Drinking Water Quality Standards, to be used as a drinking water supply.

As soils and waste materials are the primary contaminated media at the Site, site-specific and contaminant-specific cleanup goals were developed by the NYSDEC, in consultation with the NYSDOH. These goals were presented in the 2004 ROD and used to determine the areal extent and volumes of impacted soils, excavation and treatment volumes, and costs associated with the remediation. For the purpose of this evaluation, surface soil is defined as soils found from the surface to two feet below ground level. Subsurface soil is defined as soils found at depths greater than two feet. The specific goals are listed below:

Total Carcinogenic SVOCs in soil - 10 ppm

Total SVOCs in soil - 500 ppm

Total VOCs in soil - 10 ppm

Total PCBs in surface soil - 1 ppm

Total PCBs in subsurface soil - 10 ppm

Lead in soil - 1200 ppm

Total Chromium in soil - 50 ppm

Mercury in soil - 2 ppm

2.0 Institutional and Engineering Control Plan Compliance

2.1 Institutional Controls

The following institutional controls are implemented at the Site and are enforced though an Environmental Notice:

1. Site Use Restriction – The owner of the Site will be prohibited from using it for purposes other than for commercial and/or industrial use and the services associated with such use. Future use of the Site is expected to be commercial in nature. The Environmental Notice shall be binding on all future owners of the property and will cosign consent to enforcement by the NYSDEC of all prohibitions and restrictions and agreement not to contest the authority of the NYSDEC to seek enforcement.
2. Soil Management Plan – Further excavation of soils at the property or removal of soil from the property will not be conducted unless undertaken with a Soil Management Plan as prepared by the developer, to be submitted to and approved by the NYSDEC prior to initiating any soil excavations. This will describe procedures for soil excavation and removal of soils from the property that are designed to protect human health and the environment.
3. Groundwater Use Restriction – The use of groundwater underlying the Site will be prohibited until deemed acceptable by the NYSDEC as determined by long term monitoring.
4. Groundwater Monitoring – The Site owner will monitor groundwater quality at each of the Site monitoring wells until data indicate that groundwater standards have been achieved.
5. Notification – An IC notification in accordance with the Soil Management Plan will be made to the NYSDEC whenever intrusive activities are to be performed on the Site area that requires contaminated soil to be disturbed. The purpose of the IC notification is to notify the NYSDEC of any intrusive activities that will be performed on Site and to ensure that the control remain effective over time.
6. Annual Certification Report – The Site owner will certify on a yearly basis that the institutional controls are in place and remain effective for the protection of public health and the environment. The Site owner will identify any activities undertaken pursuant to the SMP during the past year and identify anticipated forthcoming activities that may require implementation of the SMP.

2.2 Engineering Controls

The ECs for the Site include:

1. Site Access Controls – The existing six-foot high chain link fence will be maintained as part of the engineering control plan. Future modifications to the exact location of the chain link fence will be allowed during Site construction until the time of development for commercial and/or industrial purposes.

2. Signage – "Posted" signs will be placed on the perimeter fence to notify the community that the Site has restricted access and that no trespassing is allowed until the time of development for commercial and/or industrial purposes.
3. Monitoring Well Replacement – The monitoring wells decommissioned during the Site remediation have been replaced and additional wells installed to monitor the effectiveness of the remedial program on the groundwater at the Site.
4. Areas with Standard, Criteria, and Guidance (SCG) Exceedances – As part of the excavation process at the Site, several areas that did not meet the SCG guidelines were left in place since further excavations were limited due to access, engineering limitations and intrusion into the semi-confining clay unit between the lower and upper aquifer at the Site.

3.0 Monitoring and Sampling Plan Compliance

The 2008 SMP was prepared to manage remaining on-Site contamination and ensure that the remedy remains effective by restricting site use, site development and soil movement on the property. The 2008 SMP, in addition to the 2012 PRR recommendations and historical sampling records, specifies the following monitoring and sampling activities for the Site:

Summary of Monitoring and Sampling Plan			
Site Management Activity	**Frequency**	**Location**	**Laboratory Analysis**
Site Inspection	Annual	Site properties	Not Applicable
Groundwater Sampling	Every 5 Quarters	• MW-11 • MW-11D • MW-15 • MW-15D • MW-16 • MW-16D • MW-18 • MW-019 • MW-19D • MW-20 • MW-20D • MW-21 • MW-21D • MW-23 • MW-23D • MW-30 • MW-31 • MW-32 • MW-33	USEPA Method 8260C for TCL VOCs + TICs. USEPA Method 8270D for TCL SVOCs + TICs. USEPA Method. USEPA Method 6010C for TAL Metals. USEPA Method 8081B for Pesticides. USEPA Method 8082A for PCBs. USEPA Method 537 Mod. for PFAS. USEPA Method 8270D SIM for 1,4-Dioxane.
SMR	Not Required	Not Applicable	Not Applicable
Site Inspection Report	Following each inspection event	Not Applicable	Not Applicable
PRR	Every five years	Not Applicable	Not Applicable

Notes:
PCBs – Polychlorinated Biphenyls
PFAS – Per- and Polyfluoroalkyl Substances
PRR – Periodic Review Report
SIM – Selected Ion Monitoring
SMR – Site Monitoring Report
SVOCs – Semi-volatile Organic compounds
TAL – Target Analyte List
TCL – Target Compound List
TICs – Tentatively Identified Compounds
USEPA – United States Environmental Protection Agency
VOCs – Volatile Organic Compounds

Prior to sampling activities during this reporting period, TRC reviewed Site historical groundwater analytical results and recommended a reduction in both the number of wells to be sampled and analytes for analysis during the 2021 groundwater sampling event. The NYSDEC approved of this reduction in an email dated April 23, 2021. The table presented below summarizes the approved monitoring and sampling plan utilized during this reporting period.

Well	Analysis								
	TCL VOCs	TCL SVOCs	TAL Metals	Mercury	Cyanide	Pesticides	PCBs	PFAS	1,4-Dioxane
MW-11	X					X		X	
MW-11D	Not Sampled								
MW-12	Abandoned by Site owner - January 12, 2021								
MW-15		X	X			X	X		
MW-15D			X			X	X		
MW-16			X			X	X	X	
MW-16D	X								
MW-18		X							
MW-19	Not Sampled								
MW-19D	X								
MW-20	X	X	X			X	X	X	X
MW-20D	Not Sampled								
MW-21			X						
MW-21D	Not Sampled								
MW-23		X	X						
MW-23D	Not Sampled								
MW-30	X							X	
MW-31	X								
MW-32						X			
MW-33	X		X					X	X

3.1 Site Inspection

TRC conducted a Site inspection on May 24, 2021, in accordance with the SMP. The Site inspection was conducted to document the condition of the on and off-site monitoring wells, overall Site conditions, and to collect groundwater samples from the 14 selected Site wells. Additionally, monitoring well location data was not available from prior reporting. As such, TRC collected horizontal location data from all monitoring wells during the Site inspection activities utilizing a handheld global positioning system (GPS) unit.

- Site entrances and gates were secure, and the surrounding chain link fence was intact and in good condition.
- Monitoring wells were secure and in good condition. There were no signs of deterioration. All well casings and covers were inspected and appeared to be in good condition.
- Signage along the perimeter fence was visible and appeared to be in good condition.

A summary of the completed Site management activities is presented in the table below:

Summary of Site Management Activities
May 2021

Site Management Activity	Summary of Results	Maintenance/Corrective Measure
Site and Monitoring Well Network Inspection	All well casings and covers were inspected and appeared to be in good condition.	No routine maintenance or corrective measures needed at this time.
Groundwater gauging and sampling	On May 25, 2021, 17 of the Site monitoring wells were gauged for depth to water. Monitoring wells MW-19 and MW-20D were not gauged during the sampling event due to complications with the interface probe. From May 24 to 25, 2021, 14 of the Site monitoring wells (MW-11, MW-15, MW-15D, MW-16, MW-16D, MW-18, MW-19D, MW-20, MW-21, MW-23, MW-30, MW-31, MW-32, and MW-33) were sampled utilizing USEPA low-flow methods.	No routine maintenance or corrective measures needed at this time.

A field activity report and photographic log from the recent inspection activities can be found in **Appendix B**.

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Gauging

On May 25, 2021, 17 monitoring wells were gauged for depth to groundwater to evaluate groundwater flow direction. Monitoring wells MW-19 and MW-20D were not gauged during the sampling event due to malfunctions with the interface probe. The groundwater surface contours with an interpretation of groundwater flow direction for the shallow overburden wells are presented on **Figure 3**. The groundwater gauging and elevation measurements can be found in **Table 1**. A summary of the hydrogeological information is presented below:

May 2021 Hydrogeologic Summary			
Number of Gauged Wells	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells**
17	1	Overburden	Overburden – 17
Overburden Groundwater Elevation Range			
Highest groundwater elevation: 225.47 feet AMSL (MW-30) Lowest groundwater elevation: 218.86 feet AMSL (MW-16D)			
Inferred Overburden Groundwater Flow Direction			
Radial			

3.2.2 Groundwater Sampling

On May 24 and 25, 2021, TRC collected groundwater samples from 14 monitoring wells utilizing standard low-flow sampling techniques and in accordance with the NYSDEC January 2021 *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)*. The locations of the Site monitoring wells can be found on **Figure 2**. Groundwater sampling logs can be found in **Appendix C**. All 14 groundwater samples in addition to QA/QC samples, collected at the frequencies specified in TRC's July 2020 Generic QAPP, were submitted to Eurofins/TestAmerica Laboratories for the laboratory analyses listed in Section 3.0 above.

A summary of the groundwater sampling information and pertinent monitoring well details from TRC's March 2021 activities is presented below:

Summary of Groundwater Monitoring Well Details and Sampling Activities
May 2021

Well ID	Monitoring Well Details				May 2021 Groundwater Sampling Event		
	Latitude	Longitude	Screen Zone (ft. bgs)	Unit Screened	DTW (ft. below TOC)	Analytes	Notes
MW-11	42.83531671	-73.92943149	10.0	7.0 – 17.0	12.10	TCL VOCs, Pesticides, PFAS	
MW-11D	42.83535447	-73.92937489	10.0	40.0 – 50.0	11.35	Not sampled	Gauged only
MW-15	42.83347155	-73.93163735	10.0	3.0 – 13.0	3.60	TCL SVOCs, TAL Metals, Pesticides, PCBs	
MW-15D	42.83346846	-73.93165224	10.0	20.0 – 30.0	3.55	TAL Metals, Pesticides, PCBs	
MW-16	42.83679441	-73.92975993	7.0	6.0 – 13.0	7.90	TAL Metals, Pesticides, PCBs, PFAS	
MW-16D	42.83681598	-73.92975699	10.0	17.5 – 27.5	8.63	TCL VOCs	
MW-18	42.8338365	-73.92979975	5.0	7.0 – 12.0	8.60	TCL SVOCs	
MW-19	42.83294416	-73.93074904	3.0	3.0 – 6.0	NA	Not sampled	Unable to gauge
MW-19D	42.8329241	-73.93078073	10.0	12.0 – 22.0	5.80	TCL VOCs	
MW-20	42.83473815	-73.93109596	5.0	5.0 – 10.0	6.00	TCL VOCs, TCL SVOCs, Pesticides, PCBs, PFAS, 1,4-Dioxane	
MW-20D	42.83476034	-73.93106627	10.0	20.0 – 30.0	NA	Not sampled	Unable to gauge
MW-21	42.83465225	-73.93026111	10.0	5.0 – 15.0	12.35	TAL Metals	
MW-21D	42.83463512	-73.93023688	10.0	38.0 – 48.0	11.14	Not sampled	Not sampled, gauged only
MW-23	42.83579006	-73.93076241	10.0	3.5 – 13.5	5.29	TCL SVOCs, TAL Metals	
MW-23D	42.83572137	-73.93078878	10.0	55.0 – 65.0	4.24	Not sampled	Not sampled, gauged only
MW-30	42.83510708	-73.93001502	10.0	5.0 – 15.0	8.05	TCL VOCs, PFAS	
MW-31	42.83553703	-73.93021548	10.0	5.0 – 15.0	5.82	TCL VOCs	
MW-32	42.834181	-73.93033261	10.0	9.0 – 19.0	11.85	Pesticides	
MW-33	42.83378757	-73.93131905	5.0	6.0 – 11.0	7.80	TCL VOCs, TAL Metals, PFAS, 1,4-Dioxane	

Notes:
DTW – Depth to water
ft. bgs – Feet below ground surface.
TOC – Top of casing
NA – Not available

* Monitoring wells were located by TRC with a handheld GPS on May 25, 2021.

Additional construction details are in included on **Table 1**

3.2.3 Groundwater Analytical Results

An exceedance summary of the May 2021 groundwater analytical results is provided on the following tables:

Exceedance Summary of Groundwater Analytical Results – VOCs May 2021				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
Acetone	50	ND – 57	MW-20	1/7
cis-1,2-Dichloroethene	5	ND – 12	MW-19D	1/7
Xylenes, total	5	ND – 14	MW-30	1/7

Exceedance Summary of Groundwater Analytical Results – SVOCs May 2021				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
No Results above NYSDEC Recommended Guidance Values				

Exceedance Summary of Groundwater Analytical Results – PCBs May 2021				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
No Results above NYSDEC Recommended Guidance Values				

Exceedance Summary of Groundwater Analytical Results – Pesticides May 2021				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
No Results above NYSDEC Recommended Guidance Values				

Exceedance Summary of Groundwater Analytical Results – Metals May 2021				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
Iron	300	630 – 25,400	MW-16	7/7
Magnesium	35,000	5,500 – 47,200	MW-16	1/7
Manganese	300	29 – 7,400	MW-21	6/7
Sodium	20,000	17,500 – 172,000	MW-15	6/7

Exceedance Summary of Groundwater Analytical Results – PFAS May 2021				
Constituent	**SCG***	**Concentration Range (ng/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
Perfluorooctanoic acid (PFOA)	10	1.4 – 21	MW-16	3/5
Perfluorooctanesulfonic acid (PFOS)	10	0.63 - 55	MW-16	4/5

Notes:
µg/L – micrograms per liter.
ηg/L – nanograms per liter.
ND – Non-detect.
PCBs – Polychlorinated Biphenyls
PFAS – Per- and Polyfluoroalkyl Substances.
SCG – Standards, Criteria, and Guidance.
SVOCs – Semi-volatile Organic Compounds
VOCs – Volatile Organic Compounds
* - Recommended Guidance Values from the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2021.

Groundwater analytical data for VOCs, SVOCs, PCBs, Pesticides, Metals, and PFAS can be found in **Table 2**. The DUSRs can be found in **Appendix D**. Detected compounds exceeding their respective NYSDEC Class GA Values for each well are illustrated on **Figure 3**.

4.0 Cost Summary

The total estimated cost of the Site management activities during this reporting (February 2020 through September 2021) is approximately $34,200. Site management activities included the following:

- Project management and administration;
- Project support and oversight regarding the Site owner NOV;
- A Site inspection;
- Sampling and laboratory analysis of 14 monitoring wells for varying analyses;
- Preparation of the PRR.

The total includes engineering support, as well as expenses associated with the project. It should be noted that the total does not include costs incurred by NYSDEC in support of the project. A summary of the 2021 Site management costs is presented below:

Summary of Site Management Costs
February 27, 2020 through September 30, 2021

Cost Item	Approximate Amount Expended	Percent of Total Cost
Engineering Support		
TRC	$29,500	86%
Subcontractors		
Eurofins/TestAmerica Laboratories (NYSDEC Callout)	$4,000	12%
Expenses		
TRC	$700	2%
Total Cost	**$34,200**	----

The following provides a review of each cost item:

- Engineering support includes labor costs associated with project management (e.g., WA Package preparation, monthly invoicing, project scheduling and coordination, etc.), Site inspections, groundwater sampling, and reporting (i.e., Site inspection report, DUSR, and PRR).

- Subcontractors include analytical laboratory costs associated with the groundwater sampling events.
- Expense costs include travel, equipment, and supplies in support of the Site inspection, groundwater sampling event and routine site maintenance activities.
- Reporting costs include data validation, DUSRs, electronic data deliverable preparation, and PRR preparation.

5.0 Conclusions and Recommendations

5.1 Conclusions

- Based on the groundwater elevations measured during the May 2021 sampling event, groundwater flow in the overburden aquifer appears to be radial, with an apparent mound within the central portion of the Site. This observation is inconsistent with historical reporting.
- The metals iron, manganese, magnesium, and sodium were detected at concentrations above their respective Class GA Values in several monitoring wells. While these metals are likely not indicative of Site contaminant migration and are typically regulated for aesthetic purposes such as odor, taste, and clarity in drinking water, they may be indicative of the overall geochemical quality of the groundwater at the Site.
- Site COCs, including VOCs were detected at concentrations exceeding their respective Class GA Values in several groundwater samples collected from the Site. All detections are consistent with historical analytical results.
- PFAS compounds were detected at concentrations exceeding their respective recommended Class GA Values in several groundwater samples collected from the Site. These included exceedances of perfluorooctanoic acid (PFOA) in monitoring wells MW-16, MW-20, and MW-30 and exceedances of perfluorooctanesulfonic acid (PFOS) in monitoring wells MW-11, MW-16, MW-20, and MW-30. These detections are consistent with historical analytical results.
- Site and groundwater use were consistent with the restrictions set forth in the ROD, the July 2008 SMP and Environmental Notice. Groundwater monitoring activities were completed in May 2021 for this certification period. The ICs operated as intended during this reporting period.
- The remedy continues to be protective of human health and the environment during this reporting period.

5.2 Recommendations

- Based on current and historic groundwater analytical results, COCs including SVOCs, pesticides, PCBs, and 1,4-dioxane, have either not been detected above their respective SCGs, or have been detected slightly above criteria and decreased or remained stable. As such, it is recommended that these analytes be removed from the analysis suite for future monitoring events.
- The frequency of routine Site inspections should be increased from every five quarters to annually. Due to the recent fill-in activities and NOV resolution with the Site owner, the Site should be inspected to assess the presence of fill, grading at the Site, and status of monitoring wells.

- The frequency of groundwater sampling should be reduced from every five quarters to every three years.
- The frequency of PRRs should remain at every five years. It is recommended that the certification period for the next PRR covers the reporting period between October 1, 2021 to October 1, 2026.
- During years where groundwater sampling and/or Site inspections are completed and a PRR is not required, a brief Site Management Report (SMR) summarizing the monitoring activities and results should be submitted. During years where both a SMR and PRR are required, a SMR will not be submitted.
- Due to the known current/historical groundwater concentration trends in all Site monitoring wells, the well network selected for analytical testing should be based upon the presence of continued COC exceedances. As such, the recommended well network for all future monitoring is provided in the table below.
- The July 2008 SMP should be revised to reflect the above changes/modifications, if the changes are acceptable to the NYSDEC.

Well ID	Recommended Analyses		
	TCL VOCs	TAL Metals	PFAS
MW-11	X		X
MW-11D	No Sample		
MW-12	Abandoned by Site owner - January 12, 2021		
MW-15		X	
MW-15D		X	
MW-16		X	
MW-16D	X		
MW-18	No Sample		
MW-19	No Sample		
MW-19D	No Sample		
MW-20	X	X	X
MW-20D	No Sample		
MW-21		X	
MW-21D	No Sample		
MW-23		X	

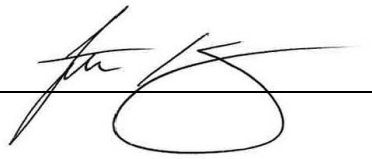
MW-23D	No Sample		
MW-30	X		X
MW-31	No Sample		
MW-32	No Sample		
MW-33	X	X	X

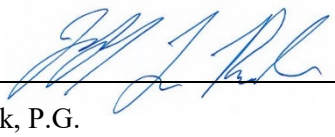
6.0 Certification of Engineering and Institutional Controls

For each institutional or engineering control identified for the Site, I certify that all the following statements are true:

- The institutional and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by DER;
- Nothing has occurred that would impair the ability of such control to protect public health and the environment; and,
- Nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control.

TRC Engineers, Inc.

Prepared By: 
Justin King
Project Manager

Reviewed By: 
Jeffrey W. LaRock, P.G.
Senior Technical Reviewer

7.0 Future Site Activities

Based on the recommendations in Section 4, the following site management activities will be completed during the next PRR reporting period (October 2021 to October 2026):

- Site Inspections – Annual (next scheduled: Q2 2022)
- Groundwater – Every 3 years (next scheduled: Q3 2024)
- SMR – Annual, following each Site inspection and/or groundwater sampling event (next scheduled: Q3 2022)
- PRR – Every 5 years (next scheduled: Q4 2026)

Figures

LEGEND

- SITE LOCATION

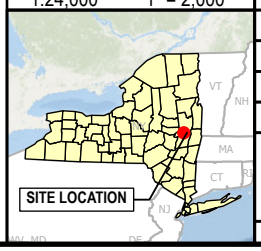
BASE MAP: USGS TOPOGRAPHIC IMAGERY
DATA SOURCES: TRC

N

0 1,000 2,000

FEET

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



PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
34 FREEMAN'S BRIDGE ROAD - SITE NO. 447028
34 FREEMAN'S BRIDGE ROAD
GLENVILLE, NEW YORK 12302

TITLE:

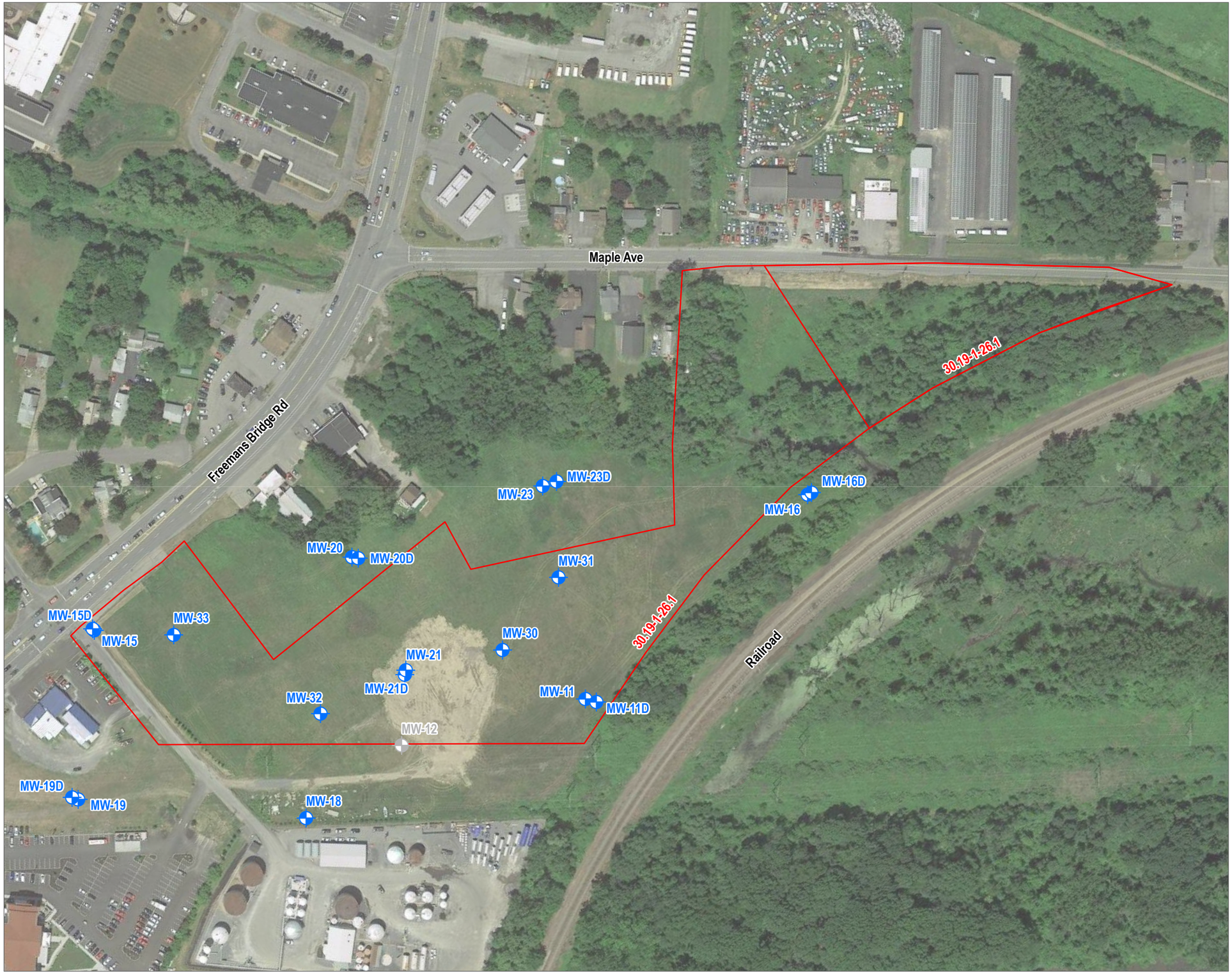
SITE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 23
CHECKED BY:	J. KING		
APPROVED BY:	J. MAGDA		**FIGURE 1**
DATE:	AUGUST 2021		

TRC
10 Maxwell Drive
Clifton Park, NY 12065
Phone: 518-348-1190
www.TRCcompanies.com

FILE: SITELOCATION

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW YORK EAST FIPS 3101 FEET: MAP ROTATION: 0
--- SAVED BY: LLILL ON 8/17/2021 08:12:04 AM: FILE PATH: T:\1-PROJECTS\NYSDEC\386554_23_34FREEMANSBRIDGEROAD\2-APRX\SITELOCATION\SITELOCATION APRX: LAYOUT NAME: FIGURE 1 - 34 FREEMAN'S BRIDGE ROAD SITE LOCATION



LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL

NOTES:

1. MONITORING WELL MW-12 WAS ABANDONED BY THE SITE OWNER ON JANUARY 12, 2021.

1:2,100
1" = 175'

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC
SHEET SIZE: 11X17L

0 175 350 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
34 FREEMAN'S BRIDGE ROAD - SITE NO. 447028
34 FREEMAN'S BRIDGE ROAD
GLENVILLE, NEW YORK 12302

TITLE:
SITE LAYOUT MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 23
CHECKED BY:	J. KING		**FIGURE 2**
APPROVED BY:	J. MAGDA		
DATE:	AUGUST 2021		

TRC
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Clifton Park, NY 12065
Phone: 518-348-1190
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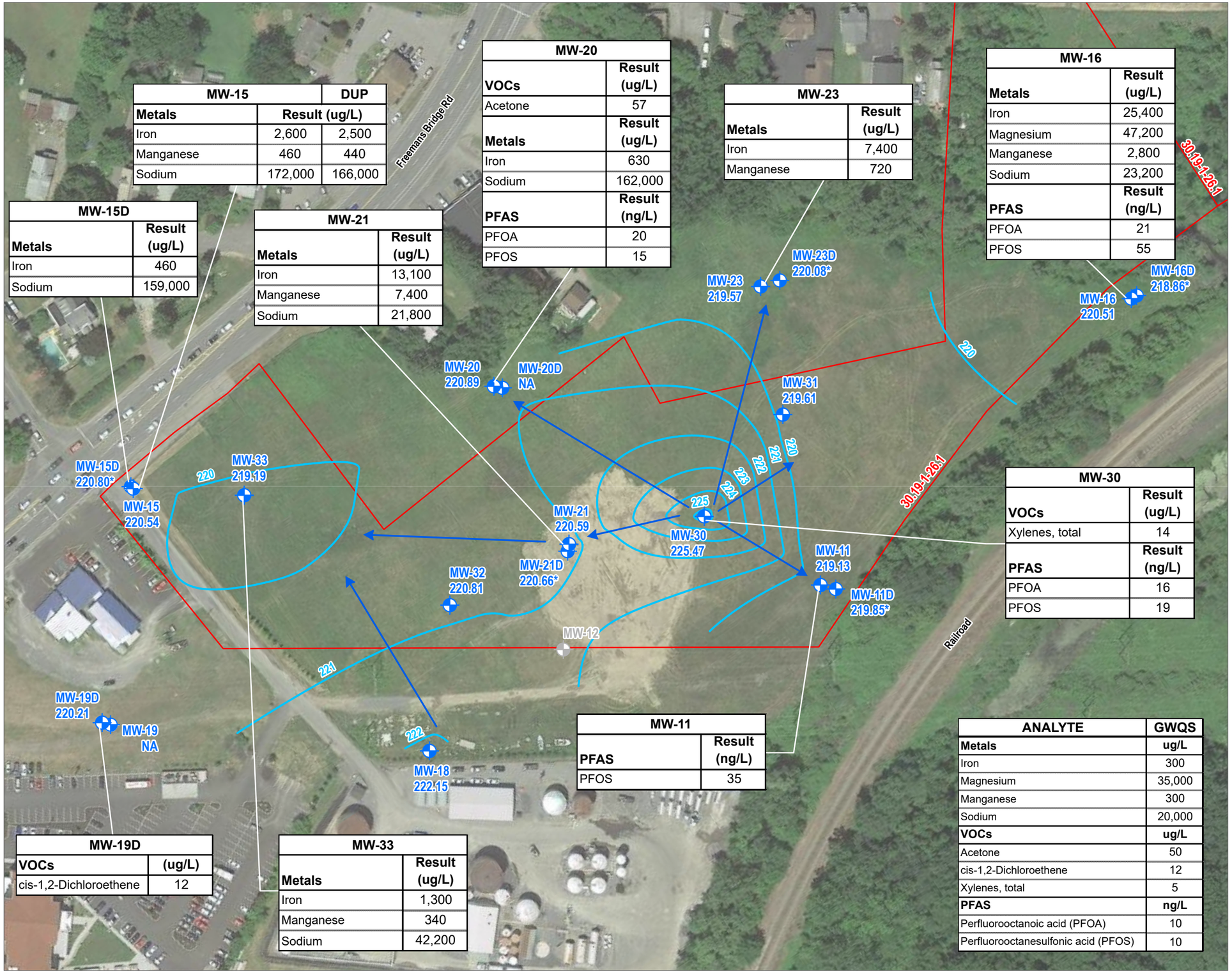
FILE: sitelayout.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 57
Saved By LILL on 8/17/2021, 08:24:23 AM; File Path: T:\1-PROJECTS\NYSDEC\386554_23_34FreemansBridgeRoad\2-APRX\sitelayout\sitelayout.aprx; Layout Name: Figure 2 - 34 Freeman's Bridge Road Site Layout



MW-15		DUP
Metals	**Result (ug/L)**	
Iron	2,600	2,500
Manganese	460	440
Sodium	172,000	166,000

MW-15D	
Metals	**Result (ug/L)**
Iron	460
Sodium	159,000

MW-21	
Metals	**Result (ug/L)**
Iron	13,100
Manganese	7,400
Sodium	21,800

MW-20	
VOCs	**Result (ug/L)**
Acetone	57
Metals	**Result (ug/L)**
Iron	630
Sodium	162,000
PFAS	**Result (ng/L)**
PFOA	20
PFOS	15

MW-23	
Metals	**Result (ug/L)**
Iron	7,400
Manganese	720

MW-16	
Metals	**Result (ug/L)**
Iron	25,400
Magnesium	47,200
Manganese	2,800
Sodium	23,200
PFAS	**Result (ng/L)**
PFOA	21
PFOS	55

MW-30	
VOCs	**Result (ug/L)**
Xylenes, total	14
PFAS	**Result (ng/L)**
PFOA	16
PFOS	19

MW-11	
PFAS	**Result (ng/L)**
PFOS	35

MW-19D	
VOCs	**(ug/L)**
cis-1,2-Dichloroethene	12

MW-33	
Metals	**Result (ug/L)**
Iron	1,300
Manganese	340
Sodium	42,200

ANALYTE	GWQS
Metals	**ug/L**
Iron	300
Magnesium	35,000
Manganese	300
Sodium	20,000
VOCs	**ug/L**
Acetone	50
cis-1,2-Dichloroethene	12
Xylenes, total	5
PFAS	**ng/L**
Perfluorooctanoic acid (PFOA)	10
Perfluorooctanesulfonic acid (PFOS)	10

LEGEND

- TAX PARCEL BOUNDARY
- MONITORING WELL
- ABANDONED MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (1' INTERVALS)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. POTENTIOMETRIC SURFACE ELEVATIONS WERE COLLECTED ON MAY 25, 2021.
2. PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES.
3. VOCS - VOLATILE ORGANIC COMPOUNDS.
4. UG/L - MICROGRAMS PER LITER.
5. NG/L - NANOGRAMS PER LITER.
6. GWQS - GROUNDWATER WATER QUALITY STANDARD: NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES, CLASS GA, 1998.
7. * - EXCEPT AT MW-19D, WATER ELEVATIONS COLLECTED FROM DEEP SCREENED WELLS WERE NOT INCLUDED IN THE GROUNDWATER CONTOURS.

FOR FIGURE CLARITY:

1. CONSTITUENTS AND INDIVIDUAL COMPOUNDS NOT SHOWN WERE EITHER NOT DETECTED OR DID NOT EXCEED THEIR RESPECTIVE GWQS.
2. LABORATORY ANALYTICAL DATA QUALIFIERS HAVE BEEN OMITTED, REFER TO THE SUMMARY DATA TABLES FOR ANALYTICAL DETAILS REGARDING QUALIFIERS.

1:1,500
1" = 125'

BASE MAP: GOOGLE EARTH IMAGERY
DATA SOURCES: TRC
SHEET SIZE: 11X17L

0 125 250 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
34 FREEMAN'S BRIDGE ROAD - SITE NO. 447028
34 FREEMAN'S BRIDGE ROAD
GLENVILLE, NEW YORK 12302

TITLE:
GROUNDWATER MONITORING MAP - MAY 2021

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 23
CHECKED BY:	J. KING		FIGURE 3
APPROVED BY:	J. LAROCK		
DATE:	OCTOBER 2021		

TRC
10 Maxwell Drive
Clifton Park, NY 12065
Phone: 518-348-1190
www.TRCcompanies.com

FILE: gwelevations.aprx

Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 57
Saved By LLILL on 10/8/2021 - 12:42:07 PM; File Path: T:\1_PROJECTS\NYSDEC\386554_23_34FreemansBridgeRoad\2-APRX\gwelevations\gwelevations.aprx; Layout Name: Figure 3 - 34 Freeman's Bridge Road GW Monitoring Map

Tables

Table 1
New York State Department Of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Summary of Depth to Water Measurements and Groundwater Elevations - May 2021

Well ID	Screened Formation	TOC Elev. (feet AMSL)	Gauge Date	Depth to Water (feet below TOC)	Depth to Bottom (feet below TOC)	Groundwater Elev. (feet AMSL)
MW-11	Overburden	231.23	5/25/2021	12.10	19.72	219.13
MW-11D	Overburden	231.20	5/25/2021	11.35	52.94	219.85
MW-15	Overburden	224.14	5/25/2021	3.60	13.50	220.54
MW-15D	Overburden	224.35	5/25/2021	3.55	22.00	220.80
MW-16	Overburden	228.41	5/25/2021	7.90	13.49	220.51
MW-16D	Overburden	227.49	5/25/2021	8.63	29.16	218.86
MW-18	Overburden	230.75	5/25/2021	8.60	15.27	222.15
MW-19	Overburden	227.12	5/25/2021	NA	NA	NA
MW-19D	Overburden	226.01	5/25/2021	5.80	22.50	220.21
MW-20	Overburden	226.89	5/25/2021	6.00	12.55	220.89
MW-20D	Overburden	227.13	5/25/2021	NA	NA	NA
MW-21*	Overburden	232.94	5/25/2021	12.35	23.54	220.59
MW-21D*	Overburden	231.80	5/25/2021	11.14	52.69	220.66
MW-23	Overburden	224.86	5/25/2021	5.29	16.43	219.57
MW-23D	Overburden	224.32	5/25/2021	4.24	56.16	220.08
MW-30*	Overburden	233.52	5/25/2021	8.05	23.51	225.47
MW-31	Overburden	225.43	5/25/2021	5.82	17.08	219.61
MW-32*	Overburden	232.66	5/25/2021	11.85	27.30	220.81
MW-33	Overburden	226.99	5/25/2021	7.80	13.90	219.19

Notes

Elev. : Elevation
AMSL : Above Mean Sea Level
ID : Identification
TOC : Top of Casing
NA : Not Available
* : Monitoring wells MW-21, MW-21D, MW-30, and MW-32 were resurveyed by ABD Engineers, LLP following January 2021 repair activities by Northeastern Environmental Technologies Corp.

Table 2
New York State Department of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Summary of Groundwater Analytical Results - May 2021

	Sample Location:		MW-11	MW-15		MW-15D	MW-16	MW-16D	MW-18	MW-19D	MW-20	MW-21	MW-23	MW-30	MW-31	MW-32	MW-33
	Sample Name:		FBR-MW-11	FBR-MW-15	DUP	FBR-MW-15D	FBR-MW-16	FBR-MW-16D	FBR-MW-18	FBR-MW-19D	FBR-MW-20	FBR-MW-21	FBR-MW-23	FBR-MW-30	FBR-MW-31	FBR-MW-32	FBR-MW-33
	Lab Sample ID:		480-185211-3	480-185211-9	480-185211-15	480-185211-10	480-185211-1	480-185211-2	480-185211-8	480-185211-11	480-185211-14	480-185211-7	480-185211-5	480-185211-6	480-185211-4	480-185211-13	480-185211-12
	Sample Date:		5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/25/2021	5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/24/2021
Analyte	**Unit**	**Class GA Value***	**Results**														
VOCs																	
1,1,1-Trichloroethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,1,2-Trichloroethane	ug/L	1	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,1,2-Trichloro- 1,2,2-trifluoroethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,1-Dichloroethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,1-Dichloroethene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,2,4-Trichlorobenzene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,2-Dibromo-3-chloropropane	ug/L	0.04	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,2-Dichlorobenzene	ug/L	3	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,2-Dichloroethane	ug/L	0.6	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,2-Dichloropropane	ug/L	1	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,3-Dichlorobenzene	ug/L	3	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
1,4-Dichlorobenzene	ug/L	3	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
2-Butanone (MEK)	ug/L	50	20 U	NA	NA	NA	NA	10 U	NA	10 U	80 U	NA	NA	10 U	20 U	NA	20 U
2-Hexanone	ug/L	50	10 U	NA	NA	NA	NA	5.0 U	NA	5.0 U	40 U	NA	NA	5.0 U	10 U	NA	10 U
4-Methyl-2-pentanone	ug/L	NC	10 U	NA	NA	NA	NA	5.0 U	NA	5.0 U	40 U	NA	NA	5.0 U	10 U	NA	10 U
Acetone	ug/L	50	20 U	NA	NA	NA	NA	10 U	NA	10 U	**57 J**	NA	NA	10 U	20 U	NA	20 U
Benzene	ug/L	1	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Bromodichloromethane	ug/L	50	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Bromoform	ug/L	50	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Bromomethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Carbon disulfide	ug/L	60	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Carbon tetrachloride	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Chlorobenzene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Chloroethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Chloroform	ug/L	7	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Chloromethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
cis-1,2-Dichloroethene	ug/L	5	2.0 U	NA	NA	NA	NA	2.1	NA	**12**	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
cis-1,3-Dichloropropene	ug/L	0.4(a)	2.0 UJ	NA	NA	NA	NA	1.0 UJ	NA	1.0 UJ	8.0 UJ	NA	NA	1.0 UJ	2.0 UJ	NA	2.0 UJ
Cyclohexane	ug/L	NC	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Dibromochloromethane	ug/L	50	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Dichlorodifluoromethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Ethylbenzene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	2.1	2.0 U	NA	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0006	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Isopropylbenzene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	2.6	2.0 U	NA	2.0 U
Methyl acetate	ug/L	NC	5.0 U	NA	NA	NA	NA	2.5 U	NA	2.5 U	20 U	NA	NA	2.5 U	5.0 U	NA	5.0 U
Methyl tert-butyl ether	ug/L	10	2.0 U	NA	NA	NA	NA	0.28 J	NA	0.29 J	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Methylcyclohexane	ug/L	NC	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	13	2.0 U	NA	2.0 U
Methylene chloride	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Styrene	ug/L	5	2.0 UJ	NA	NA	NA	NA	1.0 UJ	NA	1.0 UJ	8.0 UJ	NA	NA	1.0 UJ	2.0 UJ	NA	2.0 UJ
Tetrachloroethene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Toluene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
trans-1,2-Dichloroethene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
trans-1,3-Dichloropropene	ug/L	0.4(a)	2.0 UJ	NA	NA	NA	NA	1.0 UJ	NA	1.0 UJ	8.0 UJ	NA	NA	1.0 UJ	2.0 UJ	NA	2.0 UJ
Trichloroethene	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Trichlorofluoromethane	ug/L	5	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Vinyl chloride	ug/L	2	2.0 U	NA	NA	NA	NA	1.0 U	NA	1.0 U	8.0 U	NA	NA	1.0 U	2.0 U	NA	2.0 U
Xylenes, total	ug/L	5	4.0 U	NA	NA	NA	NA	2.0 U	NA	2.0 U	16 U	NA	NA	**14**	4.0 U	NA	4.0 U
VOC TICs																	
Unknown Volatile Organic With 1st Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4 J	NA	NA	NA
Silanol, trimethyl	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	150 JN	NA	NA	NA	NA	NA	NA
Cyclopentane, 1,2,4-Trimethyl-	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.3 JN	NA	NA	NA
m,p-Xylene	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.8	NA	NA	NA
o-Xylene	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.5	NA	NA	NA
SVOCs																	
1,1'-Biphenyl	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA

Table 2
New York State Department of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Summary of Groundwater Analytical Results - May 2021

	Sample Location:		**MW-11**	**MW-15**		**MW-15D**	**MW-16**	**MW-16D**	**MW-18**	**MW-19D**	**MW-20**	**MW-21**	**MW-23**	**MW-30**	**MW-31**	**MW-32**	**MW-33**
	Sample Name:		FBR-MW-11	FBR-MW-15	DUP	FBR-MW-15D	FBR-MW-16	FBR-MW-16D	FBR-MW-18	FBR-MW-19D	FBR-MW-20	FBR-MW-21	FBR-MW-23	FBR-MW-30	FBR-MW-31	FBR-MW-32	FBR-MW-33
	Lab Sample ID:		480-185211-3	480-185211-9	480-185211-15	480-185211-10	480-185211-1	480-185211-2	480-185211-8	480-185211-11	480-185211-14	480-185211-7	480-185211-5	480-185211-6	480-185211-4	480-185211-13	480-185211-12
	Sample Date:		5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/25/2021	5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/24/2021
Analyte	**Unit**	**Class GA Value***	**Results**														
SVOCs (cont.)																	
2,4,6-Trichlorophenol	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2,4-Dichlorophenol	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2,4-Dimethylphenol	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	4.4 J	NA	5.0 U	NA	NA	NA	NA
2,4-Dinitrophenol	ug/L	10	NA	50 UJ	10 UJ	NA	NA	NA	10 UJ	NA	50 UJ	NA	10 UJ	NA	NA	NA	NA
2,4-Dinitrotoluene	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2,6-Dinitrotoluene	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2-Chloronaphthalene	ug/L	10	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2-Chlorophenol	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2-Methylphenol (o-cresol)	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	2.9 J	NA	5.0 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
2-Nitroaniline	ug/L	5	NA	50 U	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
2-Nitrophenol	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
3-Nitroaniline	ug/L	5	NA	50 U	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	ug/L	NC	NA	50 UJ	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
4-Bromophenyl phenyl ether	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
4-Chloro-3-methylphenol	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
4-Chloroaniline	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
4-Chlorophenylphenyl ether	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
4-Methylphenol (p-cresol)	ug/L	NC	NA	50 U	10 U	NA	NA	NA	10 U	NA	9.6 J	NA	10 U	NA	NA	NA	NA
4-Nitroaniline	ug/L	5	NA	50 U	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
4-Nitrophenol	ug/L	NC	NA	50 U	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
Acenaphthene	ug/L	20	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Acenaphthylene	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Acetophenone	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Anthracene	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Atrazine	ug/L	7.5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzaldehyde	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	0.002	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	0	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	0.002	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	0.002	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Bis(2-chloroethyl)ether	ug/L	1	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Bis(2-ethylhexyl)phthalate	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Butylbenzylphthalate	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Caprolactam	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Carbazole	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Chrysene	ug/L	0.002	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Di-n-butylphthalate	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Di-n-octylphthalate	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Dibenzofuran	ug/L	NC	NA	50 U	10 U	NA	NA	NA	10 U	NA	50 U	NA	10 U	NA	NA	NA	NA
Diethylphthalate	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Dimethylphthalate	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Fluoranthene	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Fluorene	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Hexachlorobenzene	ug/L	0.04	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Hexachlorobutadiene	ug/L	0.5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	ug/L	5	NA	25 U	5.0 UJ	NA	NA	NA	5.0 UJ	NA	25 UJ	NA	5.0 UJ	NA	NA	NA	NA
Hexachloroethane	ug/L	5	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	0.002	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Isophorone	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	ug/L	NC	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Naphthalene	ug/L	10	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Nitrobenzene	ug/L	0.4	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA

Table 2
New York State Department of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Summary of Groundwater Analytical Results - May 2021

	Sample Location:		**MW-11**	**MW-15**		**MW-15D**	**MW-16**	**MW-16D**	**MW-18**	**MW-19D**	**MW-20**	**MW-21**	**MW-23**	**MW-30**	**MW-31**	**MW-32**	**MW-33**
	Sample Name:		FBR-MW-11	FBR-MW-15	DUP	FBR-MW-15D	FBR-MW-16	FBR-MW-16D	FBR-MW-18	FBR-MW-19D	FBR-MW-20	FBR-MW-21	FBR-MW-23	FBR-MW-30	FBR-MW-31	FBR-MW-32	FBR-MW-33
	Lab Sample ID:		480-185211-3	480-185211-9	480-185211-15	480-185211-10	480-185211-1	480-185211-2	480-185211-8	480-185211-11	480-185211-14	480-185211-7	480-185211-5	480-185211-6	480-185211-4	480-185211-13	480-185211-12
	Sample Date:		5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/25/2021	5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/24/2021
Analyte	**Unit**	**Class GA Value***	**Results**														
SVOCs (cont.)																	
Pentachlorophenol	ug/L	1	NA	50 U	10 UJ	NA	NA	NA	10 UJ	NA	50 UJ	NA	10 UJ	NA	NA	NA	NA
Phenanthrene	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Phenol	ug/L	1	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
Pyrene	ug/L	50	NA	25 U	5.0 U	NA	NA	NA	5.0 U	NA	25 U	NA	5.0 U	NA	NA	NA	NA
1,4-Dioxane	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	1.2	NA	NA	NA	NA	NA	0.15 J
SVOC TICs																	
Unknown Semivolatile Organic With 2nd Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	180 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 3rd Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	47 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 4th Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	43 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 5th Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	2.9 J	NA	35 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 6th Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	2.8 J	NA	31 J	NA	2.0 J	NA	NA	NA	NA
Unknown Semivolatile Organic With 7th Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	28 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 8th Highest Conc.	ug/L	NC	NA	NA	2.4 J	NA	NA	NA	1.6 J	NA	27 J	NA	NA	NA	NA	NA	NA
Unknown Semivolatile Organic With 10th Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	23 J	NA	NA	NA	NA	NA	NA
Butyric Acid	ug/L	NC	NA	NA	7.3 JN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Naphthalenecarboxylic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	58 JN	NA	NA	NA	NA	NA	NA
2,5-Dimethylbenzoic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	59 JN	NA	NA	NA	NA	NA	NA
2,6-Dimethyl-Benzoic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	84 JN	NA	NA	NA	NA	NA	NA
3,4-Dimethyl Benzoic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	80 JN	NA	NA	NA	NA	NA	NA
3,5-Dimethylbenzoic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	37 JN	NA	NA	NA	NA	NA	NA
Benzeneacetic acid, .alpha.-methyl-	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	27 JN	NA	NA	NA	NA	NA	NA
P-Tolylacetic Acid	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	66 JN	NA	NA	NA	NA	NA	NA
2,6-Dimethylphenol	ug/L	NC	NA	NA	NA	NA	NA	NA	NA	NA	36 JN	NA	NA	NA	NA	NA	NA
PCBs																	
Aroclor-1016	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1221	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1232	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1242	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1248	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1254	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1260	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1262	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Aroclor-1268	ug/L	NC	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Total PCBs	ug/L	0.09	NA	0.50 U	0.50 U	0.50 U	0.50 U	NA	NA	NA	0.50 U	NA	NA	NA	NA	NA	NA
Pesticides																	
4,4'-DDD	ug/L	0.3	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
4,4'-DDE	ug/L	0.2	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
4,4'-DDT	ug/L	0.2	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Aldrin	ug/L	NC	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
alpha-BHC	ug/L	0.01	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
alpha-Chlordane	ug/L	0.05	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
beta-BHC	ug/L	0.04	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
delta-BHC	ug/L	0.04	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Dieldrin	ug/L	0.004	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endosulfan I	ug/L	NC	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endosulfan II	ug/L	NC	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endosulfan sulfate	ug/L	NC	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endrin	ug/L	ND	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endrin aldehyde	ug/L	5	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Endrin ketone	ug/L	5	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
gamma-BHC (Lindane)	ug/L	0.05	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
gamma-Chlordane	ug/L	0.05	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Heptachlor	ug/L	0.04	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Heptachlor epoxide	ug/L	0.03	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Methoxychlor	ug/L	35	0.050 U	0.060 U	0.063 U	0.060 U	0.052 U	NA	NA	NA	R	NA	NA	NA	NA	0.054 U	NA
Toxaphene	ug/L	0.06	0.50 U	0.60 U	0.63 U	0.60 U	0.52 U	NA	NA	NA	R	NA	NA	NA	NA	0.54 U	NA

Table 2
New York State Department of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Summary of Groundwater Analytical Results - May 2021

	Sample Location:		**MW-11**	**MW-15**		**MW-15D**	**MW-16**	**MW-16D**	**MW-18**	**MW-19D**	**MW-20**	**MW-21**	**MW-23**	**MW-30**	**MW-31**	**MW-32**	**MW-33**
	Sample Name:		FBR-MW-11	FBR-MW-15	DUP	FBR-MW-15D	FBR-MW-16	FBR-MW-16D	FBR-MW-18	FBR-MW-19D	FBR-MW-20	FBR-MW-21	FBR-MW-23	FBR-MW-30	FBR-MW-31	FBR-MW-32	FBR-MW-33
	Lab Sample ID:		480-185211-3	480-185211-9	480-185211-15	480-185211-10	480-185211-1	480-185211-2	480-185211-8	480-185211-11	480-185211-14	480-185211-7	480-185211-5	480-185211-6	480-185211-4	480-185211-13	480-185211-12
	Sample Date:		5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/25/2021	5/24/2021	5/25/2021	5/25/2021	5/25/2021	5/25/2021	5/24/2021	5/24/2021	5/24/2021
Analyte	**Unit**	**Class GA Value***	**Results**														
Metals, total																	
Aluminum	ug/L	NC	NA	220	220	210	200 U	NA	NA	NA	66 J	100 J	220	NA	NA	NA	97 J
Antimony	ug/L	3	NA	20 U	20 U	20 U	20 U	NA	NA	NA	20 U	20 U	20 U	NA	NA	NA	20 U
Arsenic	ug/L	25	NA	15 U	15 U	15 U	15 UJ	NA	NA	NA	15 U	5.9 J	15 U	NA	NA	NA	15 UJ
Barium	ug/L	1,000	NA	55	54	32	200	NA	NA	NA	55	86	190	NA	NA	NA	120
Beryllium	ug/L	3	NA	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	2.0 U
Cadmium	ug/L	5	NA	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	2.0 U	2.0 U	2.0 U	NA	NA	NA	2.0 U
Calcium	ug/L	NC	NA	138,000	134,000	167,000	288,000	NA	NA	NA	105,000	159,000	133,000	NA	NA	NA	361,000
Chromium	ug/L	50	NA	4.0 U	4.0 U	4.0 U	4.0 UJ	NA	NA	NA	3.2 J	4.0 U	4.0 U	NA	NA	NA	4.0 UJ
Cobalt	ug/L	NC	NA	4.0 U	4.0 U	4.0 U	4.0 U	NA	NA	NA	0.66 J	4.0 U	4.0 U	NA	NA	NA	4.0 U
Copper	ug/L	200	NA	1.8 J	2.3 J	2.9 J	10 U	NA	NA	NA	1.7 J	10 U	10 U	NA	NA	NA	10 U
Iron	ug/L	300	NA	**2,600**	**2,500**	**460**	**25,400**	NA	NA	NA	**630**	**13,100**	**7,400**	NA	NA	NA	**1,300**
Lead	ug/L	25	NA	10 U	10 U	5.9 J	3.1 J	NA	NA	NA	10 U	3.0 J	9.0 J	NA	NA	NA	3.9 J
Magnesium	ug/L	35,000	NA	24,700	24,200	29,700	**47,200**	NA	NA	NA	5,500	17,700	19,100	NA	NA	NA	21,100
Manganese	ug/L	300	NA	**460**	**440**	170	**2,800**	NA	NA	NA	29	**7,400**	**720**	NA	NA	NA	**340**
Nickel	ug/L	100	NA	10 U	10 U	10 U	10 U	NA	NA	NA	8.4 J	10 U	10 U	NA	NA	NA	10 U
Potassium	ug/L	NC	NA	2,500	2,500	3,500	5,900	NA	NA	NA	75,200	1,600	5,600	NA	NA	NA	15,100
Selenium	ug/L	10	NA	25 U	25 U	25 U	25 U	NA	NA	NA	25 U	25 U	25 U	NA	NA	NA	25 U
Silver	ug/L	50	NA	6.0 U	6.0 U	6.0 U	6.0 U	NA	NA	NA	6.0 U	6.0 U	6.0 U	NA	NA	NA	6.0 U
Sodium	ug/L	20,000	NA	**172,000**	**166,000**	**159,000**	**23,200**	NA	NA	NA	**162,000**	**21,800**	17,500	NA	NA	NA	**42,200**
Thallium	ug/L	0.5	NA	20 U	20 U	20 U	20 U	NA	NA	NA	20 U	20 U	20 U	NA	NA	NA	20 U
Vanadium	ug/L	NC	NA	5.0 U	5.0 U	5.0 U	5.0 UJ	NA	NA	NA	5.8	14	5.0 U	NA	NA	NA	5.2 J-
Zinc	ug/L	2,000	NA	4.2 J	4.1 J	10	10 U	NA	NA	NA	2.2 J	10 U	6.1 J	NA	NA	NA	10 U
PFAS																	
Perfluorobutanoic acid (PFBA)	ng/L	100**	5.5	NA	NA	NA	6.2	NA	NA	NA	4.5 UJ	NA	NA	8.6	NA	NA	16
Perfluoropentanoic acid (PFPeA)	ng/L	100**	2.8	NA	NA	NA	4.3	NA	NA	NA	10	NA	NA	6	NA	NA	3.2
Perfluorohexanoic acid (PFHxA)	ng/L	100**	2.9	NA	NA	NA	6.1	NA	NA	NA	15	NA	NA	6.7	NA	NA	4.5
Perfluoroheptanoic acid (PFHpA)	ng/L	100**	2.3	NA	NA	NA	4.1	NA	NA	NA	3.6	NA	NA	6.1	NA	NA	1.3 J
Perfluorooctanoic acid (PFOA)	ng/L	10**	9.6	NA	NA	NA	**21**	NA	NA	NA	**20**	NA	NA	**16**	NA	NA	1.4 J
Perfluorononanoic acid (PFNA)	ng/L	100**	0.96 J	NA	NA	NA	1.4 J	NA	NA	NA	2.8	NA	NA	5.6	NA	NA	0.34 J
Perfluorodecanoic acid (PFDA)	ng/L	100**	1.7 U	NA	NA	NA	0.4 J	NA	NA	NA	0.66 J	NA	NA	1.8	NA	NA	1.8 U
Perfluoroundecanoic acid (PFUnA)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA	1.7 U	NA	NA	1.8 U
Perfluorododecanoic acid (PFDoA)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA	1.7 U	NA	NA	1.8 U
Perfluorotridecanoic acid (PFTrDA)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 UJ	NA	NA	1.7 U	NA	NA	1.8 U
Perfluorotetradecanoic acid (PFTeA)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 UJ	NA	NA	1.7 U	NA	NA	1.8 U
Perfluorobutanesulfonic acid (PFBS)	ng/L	100**	1.9	NA	NA	NA	1.7	NA	NA	NA	4.8 J	NA	NA	1 J	NA	NA	1.4 J
Perfluorohexanesulfonic acid (PFHxS)	ng/L	100**	17	NA	NA	NA	21	NA	NA	NA	3.6	NA	NA	3.2	NA	NA	0.93 J
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	100**	0.78 J	NA	NA	NA	1 J	NA	NA	NA	0.36 J	NA	NA	0.3 J	NA	NA	1.8 U
Perfluorodecanesulfonic acid (PFDS)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA	1.7 U	NA	NA	1.8 U
Perfluorooctanesulfonic acid (PFOS)	ng/L	10**	**35**	NA	NA	NA	**55**	NA	NA	NA	**15**	NA	NA	**19**	NA	NA	0.63 J
Perfluorooctane Sulfonamide (PFOSA)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA	1.7 U	NA	NA	1.8 U
N-methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ng/L	100**	4.2 U	NA	NA	NA	4.3 U	NA	NA	NA	4.5 U	NA	NA	4.2 U	NA	NA	4.6 U
N-ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	ng/L	100**	4.2 U	NA	NA	NA	1.9 J	NA	NA	NA	1 J	NA	NA	4.2 U	NA	NA	4.6 U
6:2 Perfluorooctane Sulfonic Acid (6:2 FTS)	ng/L	100**	4.2 U	NA	NA	NA	4.3 U	NA	NA	NA	6.9	NA	NA	4.2 U	NA	NA	4.1 J
8:2 Perfluorodecane Sulfonic Acid (8:2 FTS)	ng/L	100**	1.7 U	NA	NA	NA	1.7 U	NA	NA	NA	1.8 U	NA	NA	1.7 U	NA	NA	1.8 U
Total PFAS	ng/L	500**	78.74	NA	NA	NA	124.1	NA	NA	NA	83.72	NA	NA	74.3	NA	NA	33.8

Notes:
ug/L - micrograms per liter.
ng/L - nanograms per liter.
NA - Not analyzed.
NC - No NYSDEC standards exist for this analyte.
J - Estimated value.
JN - Estimated value, presumptive evidence.
U - Analyte was not detected at specified quantitation limit.
UJ - Estimated non-detect.
PCBs - Polychlorinated Biphenyls.
PFAS - Per- and Polyfluoroalkyl Substances.
TICs - Tentatively Identified Compounds.
SVOCs - Semi Volatile Organic Compounds.
VOCs - Volatile Organic Compounds.
Values shown in bold exceed the listed Guidance value.
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.
** - Guidelines for Sampling and Analysis of PFAS, NYSDEC Part 375 Remedial Programs, January 2021.

Appendix A

CUSTODIAL RECORD

PERTINENT SITE DOCUMENTS

34 FREEMAN'S BRIDGE ROAD SITE (447028)

AECOM Environmental, *Periodic Review Report: July 2008 – June 2012*, 34 Freeman's Bridge Road Site, July 2012.

D.A. Collins Environmental Services, *Demolition Plan*, August 2006.

Earth Tech Northeast, Inc., *Feasibility Study Report*, 34 Freeman's Bridge Road Site, January 2004.

Earth Tech Northeast, Inc., Final Remediation Report, 34 Freeman's Bridge Road Site, March 2007.

Earth Tech Northeast, Inc., *Final Site Management Plan*, 34 Freeman's Bridge Road Site, July 2008.

Earth Tech Northeast, Inc., *Remedial Investigation Report*, 34 Freeman's Bridge Road Site, January 2004.

NYSDEC, *Record of Decision*, 34 Freeman's Bridge Road Site, March 2004.

SITE HISTORY

34 FREEMAN'S BRIDGE ROAD SITE (NYSDEC SITE NO. 447028)

Date	Description
Late 1950's	The Site was used as a drum recycling facility when the Kitchton Company occupied the Site, taking in used 55-gallon drums, emptying residuals into pits and on the ground surface, cleaning the drums, and painting and recycling them for reuse.
1978	Th Site was purchased in 1978 by Lyon Ventures, Inc., who also stored drummed waste on-Site, and received tons of fill and C&D materials that were spread on at least 4 of the 7.5 acre parcel south of Warner Creek. The depth of the fill and debris was estimated to range up to approximately 6 to 8 feet, as seen in low laying areas in the southeastern portion of the Site. Large pieces of concrete and asphalt were visible at the fill boundary along the power right-of-way. Nearly all areas where residual materials were disposed of by the Kitchton Company were buried beneath the 6 to 8 foot layer of C&D debris disposed if on-Site by Lyons Ventures, Inc.
1984-1985	The Site was first listed on the Registry of Inactive Hazardous Waste Sites as a class 5 Site due to the presence of drummed wastes, An emergency removal of twelve 55-gallon drums was conducted after an April 1989 inspection of the property revealed some eighty 55-gallon drums of waste. The Site was then taken back off the registry.
1996	The Site was considered for a voluntary clean-up program. Subsequent investigation work, including digging thirty test pits, by Touhey Associates and their consultant, The Environmental Design Partnership, revealed contamination present on four of the 7.5 acre parcel, including PCBs in the sub-surface soils in excess of 100 parts per million (ppm). The New York State Department of Health (NYSDOH) sampled four residential and one commercial drinking well for volatile contamination. Results were non-detectable for the volatile compounds analyzed. In June, NYSDEC issued an Immediate Investigation Work Assignment that revealed surface and subsurface soil PCB concentrations at levels up to 33 ppm and 980 ppm, respectively. Parsons Engineering Science, Inc., contractor to NYSDEC, installed seven monitoring wells and numerous soil gas monitoring points as part of their investigation. Twenty-five surface and twenty-five subsurface samples were collected and analyzed. Soil samples reported benzene (53 ppm), toluene (6,300 ppm), ethylbenzene (2,500 ppm), xylene (16,000 ppm), and phenol (330 ppm). Groundwater at the Site was found to contain significant levels of dichloroethylene, benzene (150 ppb), toluene (1,200 ppb), ethylbenzene (400 ppb), xylene (2,000 ppb), phenol (12,000 ppb), and semi-volatile compounds. PCBs in groundwater were reported at levels up to 280 ppb. Free product was reported in one monitoring well (MW-4, 4 inches of NAPL). The investigation identified two areas with PCB surface soil levels greater than 1 ppm: 0.25 acres north of MW-6 and 0.33 acres east of MW-5. In December, the Site was re-listed as a Class 2 Inactive Hazardous Waste Site by NYSDEC. Disposal of wastes on-Site as a result of previous activities are documented in the registry as benzene (D018), xylene (F003), toluene (F005), phenol (U188), ethylbenzene (F003) and PCBs.

1997 The NYSDEC Division of Environmental Enforcement, which identified Lyons Ventures, Inc., completed a Potentially Responsible Party (PRP) search and 'all those associated' as the PRP's for the Freeman's Bridge Site.

Due to the nature of the on-Site activities, and lack of record keeping, the following potentially hazardous substances (and potential sources/uses) appear to have been stored, used, and disposed of on the property at various times:

- Petroleum derived fuels and oils (lubricants, generators, equipment operations, stored drummed waste, drum recycling operations).
- Chlorinated solvents (cleaning agents, painting operations, stored drummed waste, drum recycling operations).
- PCBs (hydraulic oils, roadway oils and debris, stored drummed waste, drum recycling operations).
- Phenols (stored drum waste, drum recycling operations).

Based on the disposal and/or storage of some or all of these materials over the extensive period of active operation of this facility, the potential for release of one or more of these substances was considered high. NYSDOH identified the potential for exposure to contaminants in on-Site soils at levels which pose a public health concern. Dense NAPL was reported in several on-Site monitoring wells.

1999 The NYSDEC observed the installation of three soil borings during construction activities for a new sewer line project. Borings contained gravel to approximately five feet below ground surface (bgs) followed by clay to a depth of thirteen feet bgs. Soil samples collected from the borings reported the detection of PCBs and benzene, toluene, ethylbenzene, and xylenes (BTEX).

2000 The RI/FS for the Site was initiated.

2004 The RI/FS was completed with a report issued to the NYSDEC in January 2004. The RI/FS was conducted in two phases (Phase I and Phase II). Phase I of the RI/FS included:

- Preparation of a Site Base Map and research of historical information.
- Geophysical Survey.
- Test Pits.
- Monitoring Well Installation.
- Groundwater Sampling and Analysis.
- Direct Push Technology Soil Borings.
- Surface Water and Sediment Sampling.

Phase II or the supplemental field investigation of the RI/FS included:

- Direct Push Technology Soil Borings.
- Test Pits.
- Monitoring Well Installation.
- Well Abandonment.

- Groundwater Sampling and Analysis.
- Surface Water and Sediment Sampling.
- Hydraulic Conductivity Tests.

The ROD was issued by the NYSDEC in March 2004. The site-specific contaminants of concern (COCs) identified in the ROD were VOCs, semi-VOCs (SVOCs), PCBs, and metals. The remedies discussed in the ROD were selected to eliminate or mitigate all significant threats to public health and/or the environment presented by the hazardous waste disposed at the Site through the proper application of scientific and engineering principles.

The selected remedy for the 34 Freeman's Bridge Road Site, per the 2004 ROD, was excavation and on-Site thermal treatment and stabilization of groundwater, surface soil, sub-surface soil, surface water, and sediment contamination. Activities associated with the selected remedy consisted of:

- Installation of trenches/wells to remove NAPL and groundwater from main source area.
- Construction of temporary water treatment system to handle liquids.
- Excavation of contaminated soil and debris.
- Performing on-Site low temperature thermal treatment and stabilization on contaminated soil.
- Backfill and restoration of property with treated soil, topsoil, and vegetation.
- Monitoring to confirm no further potential impacts.
- Installation of institutional controls such as future groundwater use restrictions.

2006-2007

A Work Plan was developed, and implementation of the preferred remediation alternative began in November 2006 and was completed in October 2007. In addition to treating over 75,000 tons of hazardous and non-hazardous soils, over 9 million gallons of groundwater from the Site operations were treated by the on-site wastewater treatment plant and discharged into the Warner Creek in accordance with the NYSDEC approved Site Dewatering Plan.

2008

A Site Management Plan (SMP) was developed for the Site and approved by the NYSDEC in July 2008. Groundwater monitoring wells and sub-surface soil vapor points were installed accordingly, and a Post Remediation Field Investigation Report was submitted in September 2008.

2012

In accordance with the SMP, the network of groundwater monitoring wells were sampled. The sampling and reporting schedule changed to an annual event and subsequently revised by the NYSDEC to sampling every five quarters.

New York State Department of Environmental Conservation
34 Freeman's Bridge Road - Site No. 447028
Glenville, New York
Monitoring Well Construction Summary

Monitoring Well	Installation Date	Well Diameter (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	Screen			Elevation (feet AMSL)				Location	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	TOC	Ground Surface	Screen		Latitude	Longitude
											Top	Bottom		
MW-11	8/22/2000	2	PVC	19.52	Overburden	7.0	17.0	10.0	231.42	228.57	221.57	211.57	42.83531671	-73.92943149
MW-11D	NA	2	PVC	52.40	Overburden	40.0	50.0	10.0	231.26	228.61	188.61	178.61	42.83535447	-73.92937489
MW-15	8/24/2000	2	PVC	13.40	Overburden	3.0	13.0	10.0	224.47	224.47	219.47	209.47	42.83347155	-73.93163735
MW-15D	11/6/2000	2	PVC	21.94	Overburden	20.0	30.0	10.0	224.49	224.49	204.49	194.49	42.83346846	-73.93165224
MW-16	10/31/2000	2	PVC	13.51	Overburden	6.0	13.0	7.0	228.68	226.09	220.09	213.09	42.83679441	-73.92975993
MW-16D	11/2/2000	2	PVC	28.85	Overburden	17.5	27.5	10.0	227.67	225.81	208.31	198.31	42.83681598	-73.92975699
MW-18	11/2/2000	2	PVC	15.31	Overburden	7.0	12.0	5.0	230.95	227.29	220.10	215.10	42.8338365	-73.92979975
MW-19	11/1/2000	2	PVC	10.13	Overburden	3.0	6.0	3.0	228.15	224.77	221.77	218.77	42.83294416	-73.93074904
MW-19D	11/6/2000	2	PVC	22.44	Overburden	12.0	22.0	10.0	226.14	224.89	212.89	202.89	42.8329241	-73.93078073
MW-20	10/31/2000	2	PVC	12.55	Overburden	5.0	10.0	5.0	226.99	224.80	219.80	214.80	42.83476034	-73.93109596
MW-20D	11/3/2000	2	PVC	32.19	Overburden	20.0	30.0	10.0	227.16	224.72	204.72	194.72	42.83476034	-73.93106627
MW-21	11/1/2000	2	PVC	18.38	Overburden	5.0	15.0	10.0	227.51	224.52	219.52	209.52	42.83465225	-73.93026111
MW-21D	3/30/2001	2	PVC	49.51	Overburden	38.0	48.0	10.0	229.56	224.71	186.71	176.71	42.83463512	-73.93023688
MW-23	3/27/2001	2	PVC	16.27	Overburden	3.5	13.5	10.0	224.93	221.99	218.49	208.49	42.83579006	-73.93076241
MW-23D	3/29/2001	2	PVC	55.61	Overburden	55.0	65.0	10.0	224.46	222.36	167.36	157.36	42.83572137	-73.93078878
MW-30	NA	2	PVC	16.78	Overburden	5.0	15.0	10.0	226.26	223.57	218.57	208.57	42.83510708	-73.93001502
MW-31	NA	2	PVC	17.02	Overburden	5.0	15.0	10.0	225.55	223.18	218.18	208.18	42.83553703	-73.93021548
MW-32	NA	2	PVC	23.36	Overburden	9.0	19.0	10.0	227.83	224.92	215.92	205.92	42.8341810	-73.93033261
MW-33	NA	2	PVC	13.85	Overburden	6.0	11.0	5.0	227.37	224.18	218.18	213.18	42.83378757	-73.93131905

Notes

AMSL : above mean sea level
feet bgs : feet below ground surface
N/A : not avaliable
PVC : polyvinyl chloride
TOC : top of casing

* Monitoring wells were located by TRC with a handheld GPS on May 25, 2021.
* Monitoring well construction details are referenced from AECOM's 2019 Groundwater Monitoring Report.

Appendix B

NYSDEC
Division of Environmental Remediation

NYSDEC Contract No. D09812

Superintendent: NA

NYSDEC PM: Brianna Scharf

Consultant PM: Justin King

Consultant Site Inspectors:

Andrew Fishman/Lexie Lill

Site Location: Glenville, New York

Weather Conditions				
General Description	Cloudy	AM	Cloudy	PM
Temperature	70's	AM	70's	PM
Wind	2-5 mph	AM	2-5 mph	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

No injuries or accidents to note. Main concerns include: excavation/trenching hazards, working near water/ice, and slips, trips and falls

Summary of Work Performed	Arrived at site:	08:00	Departed Site:	16:00

5/24/2021 - A. Fishman and L. Lill (TRC) sampled MW-11, MW-16, MW-16D, MW-19D, MW-31, MW-32, and MW-33.

5/25/2021 - TRC gauged all wells and sampled MW-15, MW-15D, MW-18, MW-20, MW-21, MW-23, and MW-30.

With the exception of MW-20, all wells were purged until parameters stabilized. MW-20 was dry after purging for 40 minutes. MW-20 was allowed to recharge and was later sampled later in the afternoon on 5/25/2021.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No X	NA
Were there any vehicles which were not tarped?	* Yes	No X	NA
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Andrew Fishman	TRC	Environmental Consultant	16
Lexie Lill	TRC	Environmental Consultant	16
Pat Popolizio	Site owner	Machine operator	.5

Equipment Description	Contractor/Vendor	Quantity	Used
Peristaltic Pump	Pine Environmental	2	2 days
Horiba U-52 Water Quality Meter	Pine Environmental	2	2 days
MiniRae PID	Pine Environmental	1	2 days
HDPE/Silicone Tubing	Pine Environmental	Various	Various lengths

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

Overview of site.

MW-31 and view of site.

Typical monitoring well sampling setup.

Creek in northwest area of site.

Site Inspector(s): Andrew Fishman

Date: 5/24-25/2021

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this locaton had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this locaton have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☒	No ☐
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐
Comments:		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☒	N/A☐
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☒	N/A☐
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☒	N/A☐
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☐
Comments:			

Appendix C

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-11
SAMPLE TIME	14:10

LOCATION ID	MW-11
DATE	5/24/2021
START TIME	13:30
END TIME	14:10
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [x] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	11.61 FT	**FINAL DTW (BMP)**	12.25 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.72 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	8.11 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	.0.420 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	5.32 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.28 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:30	**BEGIN PURGING**									
13:45	12.25	250	15.54	1.18	6.78	2.53	0.0	156	18	
13:50	12.25	250	14.88	1.17	6.56	0.00	0.0	155	18	
13:55	12.25	250	14.67	1.18	6.51	0.00	0.0	155	18	
14:00	12.25	250	14.79	1.18	6.49	0.00	0.0	155	18	
14:05	12.25	250	14.85	1.19	6.48	0.00	0.0	156	18	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	15	**1.19**	**6.5**	**0**	**0**	**160**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC
X	PFAS	PFC_IDA	No	None	250 mL	Yes	No	See COC
X	Pesticides	8081B	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-15
SAMPLE TIME	11:15

LOCATION ID	MW-15
DATE	5/25/2021
START TIME	10:10
END TIME	11:15
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [x] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	3.60 FT	**FINAL DTW (BMP)**	3.50 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.5 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.9 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	-0.016 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.62 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.28 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:10	**BEGIN PURGING**									
10:25	3.50	250	19.75	1.47	7.29	1.52	571	-121	13	
10:30	3.50	250	18.17	1.45	7.21	0.41	499	-119	13	
10:35	3.50	250	17.88	1.45	7.18	0.14	481	-120	13	
10:40	3.50	250	17.97	1.32	7.14	0.05	400	-127	13	
10:45	3.50	250	18.05	1.37	7.10	0.03	388	-125	13	
10:50	3.50	200	19.06	1.26	7.13	0.05	216	-127	13	
10:55	3.50	200	19.59	1.26	7.09	0.00	207	-128	13	
11:00	3.50	200	19.79	1.40	7.10	0.00	191	-125	13	
11:05	3.50	200	19.81	1.44	7.10	0.00	182	-124	13	
11:10	3.50	200	19.83	1.44	7.10	0.00	183	-124	13	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	20	**1.44**	**7.1**	**0**	**183**	**-120**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL SVOAs + TICs	8270D	No	None	250 mL	Yes	Yes (MS/MSD)	See COC
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	Yes (MS/MSD)	See COC
X	Pesticides	8081B	No	None	250 mL	Yes	Yes (MS/MSD)	See COC
X	PCBs	8082A	No	None	250 mL	Yes	Yes (MS/MSD)	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [x]

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
34 Freemans Bridge Road		MW-15D	5/25/2021
PROJECT NUMBER		**START TIME**	**END TIME**
386554.0000.0000		11:35	12:30
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
FBR-MW-15D	12:30	447028	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [x] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED			
COLLAR	x		

INITIAL DTW (BMP)	3.55 FT	**FINAL DTW (BMP)**	3.55 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	22.0 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	18.45 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.03 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.25 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:35	**BEGIN PURGING**									
11:50	3.55	250	20.63	1.61	7.16	0.00	138	-39	20	
11:55	3.55	250	19.84	1.64	7.13	0.00	151	-38	20	
12:00	3.55	250	19.03	1.67	7.10	0.00	155	-38	20	
12:05	3.55	200	19.57	1.68	7.11	0.00	201	-38	20	
12:10	3.55	200	19.92	1.69	7.10	0.00	165	-39	20	
12:15	3.55	200	20.14	1.68	7.09	0.00	111	-41	20	
12:20	3.55	200	10.18	1.69	7.08	0.00	100	-42	20	
12:25	3.55	200	10.14	1.69	7.08	0.00	99.1	-42	20	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	10	**1.69**	**7.1**	**0**	**99.1**	**-42**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	No	See COC
X	Pesticides	8081B	No	None	250 mL	Yes	No	See COC
X	PCBs	8082A	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-16
SAMPLE TIME	11:30

LOCATION ID	MW-16
DATE	5/24/2021
START TIME	10:45
END TIME	11:35
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [x] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	9.97 FT	**FINAL DTW (BMP)**	10.96 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.49 FT	**SCREEN LENGTH**	5 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	3.52 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.65 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.31 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.60 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:45	**BEGIN PURGING**									
11:00	10.76	250	13.99	1.84	7.06	0.55	0.0	-122	12	
11:10	10.82	250	13.87	1.79	6.87	0.00	8.8	-123	12	
11:15	10.91	250	14.52	1.71	6.84	0.00	1.2	-123	12	
11:20	10.94	250	14.32	1.70	6.85	0.00	3.4	-122	12	
11:25	10.96	250	14.45	1.66	6.85	0.00	0.6	-121	12	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	14	**1.66**	**6.9**	**0**	**0.6**	**-120**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID _____
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	No	See COC
X	Pesticides	8081B	No	None	250 mL	Yes	No	See COC
X	PCBs	8082A	No	None	250 mL	Yes	No	See COC
X	PFAS	PFC_IDA	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-16D
SAMPLE TIME	12:35

LOCATION ID	MW-16D
DATE	5/24/2021
START TIME	11:50
END TIME	12:35
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	8.61 FT	**FINAL DTW (BMP)**	8.61 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	29.16 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	20.55 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.37 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.60 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:50	**BEGIN PURGING**									
12:05	8.61	250	13.50	1.23	7.15	3.50	19.8	-59	25	
12:10	8.61	250	13.71	1.22	7.10	0.00	14.8	-32	25	
12:15	8.61	250	13.73	1.23	7.07	0.00	10.4	-16	25	
12:20	8.61	250	13.58	1.24	7.06	0.00	8.6	-6	25	
12:25	8.61	250	13.56	1.24	7.06	0.00	7.4	-2	25	
12:30	8.61	250	13.61	1.240	7.07	0.00	6.1	4	25	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	14	**1.24**	**7.1**	**0**	**6.1**	**4**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-18
SAMPLE TIME	14:30

LOCATION ID	MW-18
DATE	5/25/2021
START TIME	13:40
END TIME	14:35
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	8.60 FT	**FINAL DTW (BMP)**	11.52 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	15.27 FT	**SCREEN LENGTH**	5 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	6.67 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.48 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.09 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:40	**BEGIN PURGING**									
13:55	11.38	250	15.29	0.827	7.21	0.10	7.6	-35	13	
14:00	11.38	250	16.41	0.782	7.15	0.05	6.0	-36	13	
14:05	11.41	250	16.67	0.746	7.08	0.40	12.1	-29	13	
14:10	11.46	250	16.38	0.685	7.05	0.61	9.8	-25	13	
14:15	11.51	250	16.46	0.604	6.98	0.82	8.6	-23	13	
14:20	11.53	250	16.44	0.570	6.95	0.82	7.4	-19	13	
14:25	11.52	250	16.55	0.553	6.88	0.82	6.6	-15	13	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**17**	**0.553**	**6.9**	**0.8**	**6.6**	**-15**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL SVOAs + TICs	8270D	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[x]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-19D
SAMPLE TIME	12:00

LOCATION ID	MW-19D
DATE	5/24/2021
START TIME	11:00
END TIME	12:00
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [ ] 3/8 [x] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	5.75 FT	**FINAL DTW (BMP)**	5.79 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	22.50 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	16.75 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.00004 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.75 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.90 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:00	**BEGIN PURGING**									
11:20	5.82	250	15.71	0.925	7.23	1.57	415	-127	20	
11:25	5.80	250	16.48	0.926	6.95	1.03	355	-128	20	
11:30	5.80	250	17.09	0.951	6.93	0.94	225	-118	20	
11:35	5.80	250	17.07	0.963	6.94	0.88	176	-125	20	
11:40	5.80	250	16.56	0.964	6.93	0.84	184	-125	20	
11:45	5.80	250	16.65	0.963	6.94	0.80	200	-125	20	
11:50	5.80	250	17.44	0.965	6.93	0.85	225	-119	20	
11:55	5.80	250	17.32	0.955	6.91	0.79	230	-109	20	
12:00	5.74	250	17.33	0.964	6.91	0.78	205	-114	20	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**17**	**0.964**	**6.9**	**0.8**	**205**	**-110**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID		DATE	
34 Freemans Bridge Road		MW-20		5/25/2021	
PROJECT NUMBER		**START TIME**		**END TIME**	
386554.0000.0000		9:00		14:00	
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**		**PAGE**	
FBR-MW-20	14:00	447028		1 OF 1	

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	6.00 FT	**FINAL DTW (BMP)**	6.95 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	12.55 FT	**SCREEN LENGTH**	5 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	6.55 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.156 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.07 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:00	**BEGIN PURGING**									
9:15	10.85	250	13.31	2.55	7.63	8.24	28.7	-85	12	
9:20	11.45	250	14.13	2.56	7.63	7.83	29.6	-74	12	
9:25	11.95	200	15.14	2.50	7.61	7.38	28.6	-65	12	
9:30	11.95	200	15.88	2.49	7.68	7.12	32.8	-45	12	
9:35	11.95	200	16.45	2.49	7.73	6.94	33.5	-23	12	
9:40	11.95	200	16.87	2.48	7.77	7.05	35.7	-24	12	
14:00	6.95	150	15.98	2.58	7.69	7.15	29.6	-38	12	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [ ] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC
X	TCL SVOAs + TICs	8270D	No	None	250 mL	Yes	No	See COC
X	Pesticides	8081B	No	None	250 mL	Yes	No	See COC
X	PCBS	8082A	No	None	250 mL	Yes	No	See COC
X	PFAS	PFC_IDA	No	None	250 mL	Yes	No	See COC
X	1,4-Dioxane	8270D SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-21
SAMPLE TIME	12:50

LOCATION ID	MW-21
DATE	5/25/2021
START TIME	12:00
END TIME	12:50
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	12.35 FT	**FINAL DTW (BMP)**	12.81 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	23.54 FT	**SCREEN LENGTH**	4.5 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.19 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.08 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	0.92 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
12:00	**BEGIN PURGING**									
12:15	12.76	250	21.14	0.923	7.10	0.74	52.4	-79	21	
12:20	12.74	250	19.16	0.941	6.83	0.00	51.6	-77	21	
12:25	12.74	250	18.1	0.960	6.78	0.00	51.3	-76	21	
12:30	12.78	250	17.65	0.964	6.74	0.00	58.6	-75	21	
12:35	12.79	250	17.22	0.969	6.73	0.00	59.8	-75	21	
12:40	12.81	250	17.21	0.967	6.73	0.00	59.2	-75	21	
12:45	12.81	250	17.23	0.965	6.69	0.00	58.2	-75	21	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	17	**0.965**	**6.7**	**0**	**58.2**	**-75**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID _____
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[x]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-23
SAMPLE TIME	9:40

LOCATION ID	MW-23
DATE	5/25/2021
START TIME	9:00
END TIME	9:40
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	5.29 FT	**FINAL DTW (BMP)**	5.51 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	16.43 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.14 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.036 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.83 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.28 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:00	**BEGIN PURGING**									
9:15	5.57	250	16.03	0.828	7.25	3.24	23.4	-111	15	
9:20	5.55	250	16.74	0.830	7.04	0.00	12.8	-117	15	
9:25	5.54	250	16.18	0.834	7.01	0.00	9.1	-118	15	
9:30	5.55	250	15.92	0.841	7.01	0.00	7.1	-119	15	
9:35	5.51	250	16.54	0.835	6.99	0.00	7.3	-120	15	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

17	**0.835**	**7**	**0**	**7.3**	**-120**	

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	No	See COC
X	TCL SVOAs + TICs	8270D	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-30
SAMPLE TIME	11:30

LOCATION ID	MW-30
DATE	5/25/2021
START TIME	10:50
END TIME	11:30
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	8.05 FT	**FINAL DTW (BMP)**	8.29 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	23.51 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.46 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.039 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.54 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.28 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:50	**BEGIN PURGING**									
11:05	8.23	250	16.37	0.804	7.52	0.44	5.4	-84	21	
11:10	8.29	250	15.54	0.803	7.35	0.00	4.2	-103	21	
11:15	8.29	250	15.76	0.799	7.31	0.00	6.0	-111	21	
11:20	8.29	250	15.70	0.801	7.31	0.00	8.4	-114	21	
11:25	8.29	250	15.68	0.800	7.30	0.00	9.8	-118	21	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	16	**0.8**	**7.3**	**0**	**9.8**	**-120**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID _____
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC
X	PFAS	PFC_IDA	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-31
SAMPLE TIME	15:25

LOCATION ID	MW-31
DATE	5/24/2021
START TIME	14:30
END TIME	15:30
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [x] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	5.83 FT	**FINAL DTW (BMP)**	5.83 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	17.08 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	11.25 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.000 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.25 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:30	**BEGIN PURGING**									
14:45	5.83	250	18.89	1.68	7.25	7.18	106.0	-68	15	
14:50	5.83	250	19.05	1.69	7.26	7.11	85.6	-72	15	
14:55	5.83	250	19.17	1.69	7.28	7.08	92.6	-72	15	
15:00	5.83	250	19.38	1.69	7.30	7.13	91.9	-73	15	
15:10	5.83	250	19.85	1.70	7.34	6.83	82.7	-78	15	
15:15	5.83	250	20.17	1.690	7.37	7.34	74.2	-75	15	
15:20	5.83	250	19.45	1.690	7.35	7.58	69.8	-74	15	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	19	**1.69**	**7.4**	**7.6**	**69.8**	**-74**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-32
SAMPLE TIME	15:00
LOCATION ID	MW-32
DATE	5/24/2021
START TIME	14:15
END TIME	15:00
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [x] 2 [ ] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [x] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	11.80 FT	**FINAL DTW (BMP)**	11.96 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	27.30 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	15.50 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.026 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.54 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.08 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
14:15	**BEGIN PURGING**									
14:30	11.93	200	16.45	0.983	10.08	2.19	11.9	24	25	
14:35	11.90	200	15.82	0.945	10.33	0.17	8.4	-31	25	
14:40	11.91	200	16.69	0.934	10.29	0.08	7.1	-46	25	
14:45	11.98	200	16.76	0.938	10.29	0.00	7.0	-62	25	
14:50	11.97	200	16.74	0.933	10.28	0.00	6.2	-76	25	
14:55	11.96	200	16.77	0.931	10.27	0.00	6.4	-78	25	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**17**	**0.931**	**10.3**	**0**	**6.4**	**-78**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID _____
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ____ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	Pesticicdes	8081B	No	None	250 mL	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [x]

NUMBER OF GALLONS GENERATED

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	34 Freemans Bridge Road
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	FBR-MW-33
SAMPLE TIME	13:55

LOCATION ID	MW-33
DATE	5/24/2021
START TIME	13:05
END TIME	13:55
SITE NAME/NUMBER	447028
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [x] 4 [ ] 6 [ ] 8 [ ] OTHER

TUBING ID (INCHES) [ ] 1/8 [ ] 1/4 [ ] 3/8 [x] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [x] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED	x		
COLLAR	x		

INITIAL DTW (BMP)	7.90 FT	**FINAL DTW (BMP)**	9.44 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.90 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	6.00 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	1.01 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.94 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:05	**BEGIN PURGING**									
13:20	8.80	250	16.83	1.90	7.39	0.17	65.4	-98	12	
13:25	9.00	250	16.37	1.92	7.31	0.00	81.1	-93	12	
13:30	9.13	250	16.96	1.96	7.26	0.00	92.5	-81	12	
13:35	9.20	250	16.98	1.96	7.25	0.00	92.2	-79	12	
13:40	9.30	250	16.92	1.96	7.24	0.00	73.4	-81	12	
13:45	9.41	250	16.95	1.93	7.26	0.01	55.8	-78	12	
13:50	9.44	250	16.96	1.90	7.27	0.00	54.0	-77	12	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	17	**1.9**	**7.3**	**0**	**54**	**-77**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [ ] PID
- [X] WQ METER YSI
- [X] TURB. METER YSI
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
X	TCL VOAs + TICs	8260C	No	HCl	40 mL	Yes	No	See COC
X	TAL Metals	6010C	No	Nitric Acid	250 mL	Yes	No	See COC
X	PFAS	PFC_IDA	No	None	250 mL	Yes	No	See COC
X	1,4-Dioxane	8270D SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[x]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Sampler Signature: Lexie Lill Print Name Lexie Lill

Checked By: Justin King Date: 6/17/2021

Appendix D

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-185211-1
Client Project/Site: SMP B 34 Freemans Brodge Rd 447028

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Brianna Scharf

Authorized for release by:
6/7/2021 5:31:15 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
6/7/2021 5:31:15 PM

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

LCMS

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-185211-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185211-1

Comments
No additional comments.

Receipt
The samples were received on 5/26/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7º C and 3.0º C.

Receipt Exceptions
PFA volume recieved for sample 6 (FBR-MW-30), not indicated on COC. Containers and methods added to login.

FBR-MW-16 (480-185211-1), FBR-MW-16D (480-185211-2), FBR-MW-11 (480-185211-3), FBR-MW-31 (480-185211-4), FBR-MW-23 (480-185211-5), FBR-MW-30 (480-185211-6), FBR-MW-21 (480-185211-7), FBR-MW-18 (480-185211-8), FBR-MW-15 (480-185211-9), FBR-MW-15 (480-185211-9[MS]), FBR-MW-15 (480-185211-9[MSD]), FBR-MW-15D (480-185211-10), FBR-MW-19D (480-185211-11), FBR-MW-33 (480-185211-12), FBR-MW-32 (480-185211-13), FBR-MW-20 (480-185211-14) and DUP (480-185211-15)

GC/MS VOA
Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: FBR-MW-11 (480-185211-3), FBR-MW-31 (480-185211-4), FBR-MW-33 (480-185211-12) and FBR-MW-20 (480-185211-14). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-583546 recovered outside control limits for the following analytes: trans-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-583546 recovered above the upper control limit for trans-1,3-Dichloropropene, cis-1,3-Dichloropropene and Styrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: FBR-MW-16D (480-185211-2), FBR-MW-11 (480-185211-3), FBR-MW-31 (480-185211-4), FBR-MW-30 (480-185211-6), FBR-MW-19D (480-185211-11), FBR-MW-33 (480-185211-12) and FBR-MW-20 (480-185211-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: FBR-MW-15 (480-185211-9), FBR-MW-15 (480-185211-9[MS]) and FBR-MW-15 (480-185211-9[MSD]). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-583187 recovered outside acceptance criteria, low biased, for 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: The following sample was diluted due to color, appearance, and viscosity: FBR-MW-20 (480-185211-14). Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-583198 recovered outside acceptance criteria, low biased, for 2,4-Dinitrophenol, Hexachlorocyclopentadiene and Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: FBR-MW-20 (480-185211-14). These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-185211-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

GC Semi VOA

Method 8081B: The matrix spike (MS) recoveries for preparation batch 480-582893 and analytical batch 480-583115 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. FBR-MW-15 (480-185211-9)

Method 8081B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-582893 and analytical batch 480-583115 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected. FBR-MW-15 (480-185211-9)

Method 8081B: The following sample was diluted due to the nature of the sample matrix: FBR-MW-20 (480-185211-14). As such, surrogate recoveries are below the calibration range, estimated and not representative. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS

Method 537 (modified): 13C4 PFBA and 13C2 PFTeDA Isotope Dilution Analyte (IDA) recoveries associated with the following sample are below the method recommended limit: FBR-MW-20 (480-185211-14). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): M2-8:2 FTS Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: FBR-MW-20 (480-185211-14). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Method 537 (modified): The “I” qualifier associated with sample FBR-MW-20 (480-185211-14) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-16
Lab Sample ID: 480-185211-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.2		4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.3		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.1		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.1		1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	21		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.4	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.40	J	1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	55		1.7	0.25	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.9	J	4.3	0.64	ng/L	1		537 (modified)	Total/NA
Barium	0.20		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	288		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0021	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	25.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	47.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	2.8		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	23.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0037	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-16D
Lab Sample ID: 480-185211-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0	0.81	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.28	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.5		4.2	0.76	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.9		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.3		1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.6		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.96	J	1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	17		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.78	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	35		1.7	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FBR-MW-31
Lab Sample ID: 480-185211-4

No Detections.

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-23 (Continued) — Lab Sample ID: 480-185211-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.19		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	133		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	7.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0090	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	19.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.72		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	17.5		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0061	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-30 — Lab Sample ID: 480-185211-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.1		1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	2.6		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	13		1.0	0.16	ug/L	1		8260C	Total/NA
Xylenes, Total	14		2.0	0.66	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	8.6		4.2	0.75	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.0		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.7		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.1		1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.6		1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.8		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		1.7	0.25	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.30	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	19		1.7	0.24	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FBR-MW-21 — Lab Sample ID: 480-185211-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.10	J	0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.0059	J	0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.086		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	159		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	13.1		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	17.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	7.4		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	21.8		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.014		0.0050	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-18 — Lab Sample ID: 480-185211-8

No Detections.

Client Sample ID: FBR-MW-15 — Lab Sample ID: 480-185211-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: FBR-MW-15 (Continued)
Lab Sample ID: 480-185211-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	138		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0018	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.6		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	24.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.46		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	172		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0042	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-15D
Lab Sample ID: 480-185211-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.21		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.032		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	167		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0029	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.46		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0059	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	29.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.17		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	3.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	159		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.010		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-19D
Lab Sample ID: 480-185211-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.81	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.29	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.15	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	16		4.6	0.82	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.2		1.8	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.5		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.4	J	1.8	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.34	J	1.8	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.93	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.63	J	1.8	0.27	ng/L	1		537 (modified)	Total/NA
6:2 FTS	4.1	J	4.6	1.0	ng/L	1		537 (modified)	Total/NA
Aluminum	0.097	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.12		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	361		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0064	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0039	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	21.1		0.20	0.043	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FBR-MW-33 (Continued)
Lab Sample ID: 480-185211-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.34		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0021	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	15.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	42.2		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0052		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0034	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: FBR-MW-32
Lab Sample ID: 480-185211-13

No Detections.

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	57	J	80	24	ug/L	8		8260C	Total/NA
1,4-Dioxane	1.2		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
2,4-Dimethylphenol	4.4	J	25	2.5	ug/L	5		8270D	Total/NA
2-Methylphenol	2.9	J	25	2.0	ug/L	5		8270D	Total/NA
4-Methylphenol	9.6	J	50	1.8	ug/L	5		8270D	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	15		1.8	0.41	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.6		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	20		1.8	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.8		1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.66	J	1.8	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.8	I	1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.36	J	1.8	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.8	0.26	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.0	J	4.5	0.67	ng/L	1		537 (modified)	Total/NA
6:2 FTS	6.9		4.5	0.99	ng/L	1		537 (modified)	Total/NA
Aluminum	0.066	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.055		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	105		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0032	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.00066	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.63		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	5.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.029		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0084	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	75.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	162		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0058		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.0022	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: DUP
Lab Sample ID: 480-185211-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.22		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.054		0.0020	0.00070	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP (Continued)
Lab Sample ID: 480-185211-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	134		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	24.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.44		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	166		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0041	J	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: FBR-MW-16
Date Collected: 05/24/21 11:30
Date Received: 05/26/21 08:00

Lab Sample ID: 480-185211-1
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.052	0.0096	ug/L		05/27/21 08:24	05/28/21 13:07	1
4,4'-DDE	ND		0.052	0.012	ug/L		05/27/21 08:24	05/28/21 13:07	1
4,4'-DDT	ND		0.052	0.011	ug/L		05/27/21 08:24	05/28/21 13:07	1
Aldrin	ND		0.052	0.0084	ug/L		05/27/21 08:24	05/28/21 13:07	1
alpha-BHC	ND		0.052	0.0080	ug/L		05/27/21 08:24	05/28/21 13:07	1
cis-Chlordane	ND		0.052	0.015	ug/L		05/27/21 08:24	05/28/21 13:07	1
beta-BHC	ND		0.052	0.026	ug/L		05/27/21 08:24	05/28/21 13:07	1
delta-BHC	ND		0.052	0.010	ug/L		05/27/21 08:24	05/28/21 13:07	1
Dieldrin	ND		0.052	0.010	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endosulfan I	ND		0.052	0.011	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endosulfan II	ND		0.052	0.013	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endosulfan sulfate	ND		0.052	0.016	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endrin	ND		0.052	0.014	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endrin aldehyde	ND		0.052	0.017	ug/L		05/27/21 08:24	05/28/21 13:07	1
Endrin ketone	ND		0.052	0.013	ug/L		05/27/21 08:24	05/28/21 13:07	1
gamma-BHC (Lindane)	ND		0.052	0.0083	ug/L		05/27/21 08:24	05/28/21 13:07	1
trans-Chlordane	ND		0.052	0.011	ug/L		05/27/21 08:24	05/28/21 13:07	1
Heptachlor	ND		0.052	0.0089	ug/L		05/27/21 08:24	05/28/21 13:07	1
Heptachlor epoxide	ND		0.052	0.0077	ug/L		05/27/21 08:24	05/28/21 13:07	1
Methoxychlor	ND		0.052	0.015	ug/L		05/27/21 08:24	05/28/21 13:07	1
Toxaphene	ND		0.52	0.13	ug/L		05/27/21 08:24	05/28/21 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:07*	*1*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:07*	*1*
Tetrachloro-m-xylene	*67*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:07*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:07*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:40	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*39 - 121*	*05/28/21 14:33*	*06/01/21 16:40*	*1*
Tetrachloro-m-xylene	*83*		*39 - 121*	*05/28/21 14:33*	*06/01/21 16:40*	*1*
DCB Decachlorobiphenyl	*52*		*19 - 120*	*05/28/21 14:33*	*06/01/21 16:40*	*1*
DCB Decachlorobiphenyl	*52*		*19 - 120*	*05/28/21 14:33*	*06/01/21 16:40*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.2**		4.3	0.77	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluoropentanoic acid (PFPeA)	**4.3**		1.7	0.41	ng/L		06/02/21 15:56	06/03/21 16:50	1

Client Sample ID: FBR-MW-16
Lab Sample ID: 480-185211-1

Date Collected: 05/24/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	**6.1**		1.7	0.39	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluoroheptanoic acid (PFHpA)	**4.1**		1.7	0.20	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorooctanoic acid (PFOA)	**21**		1.7	0.36	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorononanoic acid (PFNA)	**1.4**	**J**	1.7	0.24	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorodecanoic acid (PFDA)	**0.40**	**J**	1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorobutanesulfonic acid (PFBS)	**1.7**		1.7	0.21	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorohexanesulfonic acid (PFHxS)	**21**		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluoroheptanesulfonic Acid (PFHpS)	**1.0**	**J**	1.7	0.20	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorooctanesulfonic acid (PFOS)	**55**		1.7	0.25	ng/L		06/02/21 15:56	06/03/21 16:50	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49	ng/L		06/02/21 15:56	06/03/21 16:50	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77	ng/L		06/02/21 15:56	06/03/21 16:50	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**1.9**	**J**	4.3	0.64	ng/L		06/02/21 15:56	06/03/21 16:50	1
6:2 FTS	ND		4.3	0.94	ng/L		06/02/21 15:56	06/03/21 16:50	1
8:2 FTS	ND		1.7	0.33	ng/L		06/02/21 15:56	06/03/21 16:50	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*72*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C4 PFBA	*57*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C5 PFPeA	*78*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C2 PFHxA	*83*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C4 PFHpA	*88*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C4 PFOA	*99*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C5 PFNA	*97*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C2 PFDA	*99*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C2 PFUnA	*88*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C2 PFDoA	*86*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C2 PFTeDA	*81*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C3 PFBS	*83*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
18O2 PFHxS	*86*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
13C4 PFOS	*85*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
d3-NMeFOSAA	*96*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
d5-NEtFOSAA	*102*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
M2-6:2 FTS	*124*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*
M2-8:2 FTS	*116*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 00:37	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 00:37	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 00:37	1
Barium	**0.20**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 00:37	1

Client Sample ID: FBR-MW-16
Lab Sample ID: 480-185211-1

Date Collected: 05/24/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 00:37	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 00:37	1
Calcium	**288**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:37	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 00:37	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 00:37	1
Copper	**0.0021**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 00:37	1
Iron	**25.4**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 00:37	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 00:37	1
Magnesium	**47.2**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 00:37	1
Manganese	**2.8**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 00:37	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 00:37	1
Potassium	**5.9**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:37	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 00:37	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 00:37	1
Sodium	**23.2**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 00:37	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 00:37	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 00:37	1
Zinc	**0.0037**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 00:37	1

Client Sample ID: FBR-MW-16D
Lab Sample ID: 480-185211-2

Date Collected: 05/24/21 12:35
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/21 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/21 15:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/21 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/21 15:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/21 15:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/21 15:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/21 15:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/21 15:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/21 15:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/21 15:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/21 15:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/21 15:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/21 15:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/21 15:00	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/21 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/21 15:00	1
Acetone	ND		10	3.0	ug/L			06/02/21 15:00	1
Benzene	ND		1.0	0.41	ug/L			06/02/21 15:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/21 15:00	1
Bromoform	ND		1.0	0.26	ug/L			06/02/21 15:00	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/21 15:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/21 15:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/21 15:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/21 15:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/21 15:00	1

Client Sample ID: FBR-MW-16D
Lab Sample ID: 480-185211-2
Date Collected: 05/24/21 12:35
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			06/02/21 15:00	1
Chloroform	ND		1.0	0.34	ug/L			06/02/21 15:00	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/21 15:00	1
cis-1,2-Dichloroethene	**2.1**		1.0	0.81	ug/L			06/02/21 15:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/21 15:00	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/21 15:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/21 15:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/21 15:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/21 15:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/21 15:00	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/21 15:00	1
Methyl tert-butyl ether	**0.28**	**J**	1.0	0.16	ug/L			06/02/21 15:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/21 15:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/21 15:00	1
Styrene	ND		1.0	0.73	ug/L			06/02/21 15:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/21 15:00	1
Toluene	ND		1.0	0.51	ug/L			06/02/21 15:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/21 15:00	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.37	ug/L			06/02/21 15:00	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/21 15:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/21 15:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/21 15:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/21 15:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/02/21 15:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/02/21 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/02/21 15:00*	*1*
4-Bromofluorobenzene (Surr)	*83*		*73 - 120*		*06/02/21 15:00*	*1*
Dibromofluoromethane (Surr)	*88*		*75 - 123*		*06/02/21 15:00*	*1*

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3
Date Collected: 05/24/21 14:10
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/02/21 15:22	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/02/21 15:22	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/02/21 15:22	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/02/21 15:22	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/02/21 15:22	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/02/21 15:22	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/02/21 15:22	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/02/21 15:22	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 15:22	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/02/21 15:22	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/02/21 15:22	2

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3
Date Collected: 05/24/21 14:10
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 15:22	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/02/21 15:22	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/02/21 15:22	2
2-Hexanone	ND		10	2.5	ug/L			06/02/21 15:22	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/02/21 15:22	2
Acetone	ND		20	6.0	ug/L			06/02/21 15:22	2
Benzene	ND		2.0	0.82	ug/L			06/02/21 15:22	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/02/21 15:22	2
Bromoform	ND		2.0	0.52	ug/L			06/02/21 15:22	2
Bromomethane	ND		2.0	1.4	ug/L			06/02/21 15:22	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/02/21 15:22	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/02/21 15:22	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/02/21 15:22	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/02/21 15:22	2
Chloroethane	ND		2.0	0.64	ug/L			06/02/21 15:22	2
Chloroform	ND		2.0	0.68	ug/L			06/02/21 15:22	2
Chloromethane	ND		2.0	0.70	ug/L			06/02/21 15:22	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/02/21 15:22	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/02/21 15:22	2
Cyclohexane	ND		2.0	0.36	ug/L			06/02/21 15:22	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/02/21 15:22	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/02/21 15:22	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/02/21 15:22	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/02/21 15:22	2
Methyl acetate	ND		5.0	2.6	ug/L			06/02/21 15:22	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/02/21 15:22	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/02/21 15:22	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/02/21 15:22	2
Styrene	ND		2.0	1.5	ug/L			06/02/21 15:22	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/02/21 15:22	2
Toluene	ND		2.0	1.0	ug/L			06/02/21 15:22	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/02/21 15:22	2
trans-1,3-Dichloropropene	ND	*+	2.0	0.74	ug/L			06/02/21 15:22	2
Trichloroethene	ND		2.0	0.92	ug/L			06/02/21 15:22	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/02/21 15:22	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/02/21 15:22	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/02/21 15:22	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/02/21 15:22*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*06/02/21 15:22*	*2*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*06/02/21 15:22*	*2*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*06/02/21 15:22*	*2*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*06/02/21 15:22*	*2*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		05/27/21 08:24	05/28/21 13:26	1

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3
Date Collected: 05/24/21 14:10
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 13:26	1
4,4'-DDT	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 13:26	1
Aldrin	ND		0.050	0.0081	ug/L		05/27/21 08:24	05/28/21 13:26	1
alpha-BHC	ND		0.050	0.0077	ug/L		05/27/21 08:24	05/28/21 13:26	1
cis-Chlordane	ND		0.050	0.015	ug/L		05/27/21 08:24	05/28/21 13:26	1
beta-BHC	ND		0.050	0.025	ug/L		05/27/21 08:24	05/28/21 13:26	1
delta-BHC	ND		0.050	0.010	ug/L		05/27/21 08:24	05/28/21 13:26	1
Dieldrin	ND		0.050	0.0098	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endosulfan I	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endosulfan II	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endrin	ND		0.050	0.014	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endrin aldehyde	ND		0.050	0.016	ug/L		05/27/21 08:24	05/28/21 13:26	1
Endrin ketone	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 13:26	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		05/27/21 08:24	05/28/21 13:26	1
trans-Chlordane	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 13:26	1
Heptachlor	ND		0.050	0.0085	ug/L		05/27/21 08:24	05/28/21 13:26	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		05/27/21 08:24	05/28/21 13:26	1
Methoxychlor	ND		0.050	0.014	ug/L		05/27/21 08:24	05/28/21 13:26	1
Toxaphene	ND		0.50	0.12	ug/L		05/27/21 08:24	05/28/21 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:26*	*1*
DCB Decachlorobiphenyl	*53*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:26*	*1*
Tetrachloro-m-xylene	*76*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:26*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:26*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.5**		4.2	0.76	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluoropentanoic acid (PFPeA)	**2.8**		1.7	0.40	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorohexanoic acid (PFHxA)	**2.9**		1.7	0.38	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluoroheptanoic acid (PFHpA)	**2.3**		1.7	0.20	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorooctanoic acid (PFOA)	**9.6**		1.7	0.36	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorononanoic acid (PFNA)	**0.96**	**J**	1.7	0.24	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**		1.7	0.21	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	**17**		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.78**	**J**	1.7	0.20	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorooctanesulfonic acid (PFOS)	**35**		1.7	0.25	ng/L		06/02/21 15:56	06/03/21 16:58	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49	ng/L		06/02/21 15:56	06/03/21 16:58	1

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3

Date Collected: 05/24/21 14:10
Matrix: Water
Date Received: 05/26/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76	ng/L		06/02/21 15:56	06/03/21 16:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.63	ng/L		06/02/21 15:56	06/03/21 16:58	1
6:2 FTS	ND		4.2	0.93	ng/L		06/02/21 15:56	06/03/21 16:58	1
8:2 FTS	ND		1.7	0.33	ng/L		06/02/21 15:56	06/03/21 16:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*69*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C4 PFBA	*60*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C5 PFPeA	*81*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C2 PFHxA	*87*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C4 PFHpA	*90*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C4 PFOA	*97*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C5 PFNA	*99*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C2 PFDA	*107*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C2 PFUnA	*100*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C2 PFDoA	*95*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C2 PFTeDA	*89*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C3 PFBS	*82*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
18O2 PFHxS	*89*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
13C4 PFOS	*95*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
d3-NMeFOSAA	*108*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
d5-NEtFOSAA	*104*		*50 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
M2-6:2 FTS	*116*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*
M2-8:2 FTS	*128*		*25 - 150*	*06/02/21 15:56*	*06/03/21 16:58*	*1*

Client Sample ID: FBR-MW-31
Lab Sample ID: 480-185211-4

Date Collected: 05/24/21 15:25
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/02/21 15:45	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/02/21 15:45	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/02/21 15:45	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/02/21 15:45	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/02/21 15:45	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/02/21 15:45	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/02/21 15:45	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/02/21 15:45	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 15:45	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/02/21 15:45	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/02/21 15:45	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 15:45	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/02/21 15:45	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/02/21 15:45	2
2-Hexanone	ND		10	2.5	ug/L			06/02/21 15:45	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/02/21 15:45	2
Acetone	ND		20	6.0	ug/L			06/02/21 15:45	2
Benzene	ND		2.0	0.82	ug/L			06/02/21 15:45	2

Client Sample ID: FBR-MW-31
Lab Sample ID: 480-185211-4

Date Collected: 05/24/21 15:25
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		2.0	0.78	ug/L			06/02/21 15:45	2
Bromoform	ND		2.0	0.52	ug/L			06/02/21 15:45	2
Bromomethane	ND		2.0	1.4	ug/L			06/02/21 15:45	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/02/21 15:45	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/02/21 15:45	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/02/21 15:45	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/02/21 15:45	2
Chloroethane	ND		2.0	0.64	ug/L			06/02/21 15:45	2
Chloroform	ND		2.0	0.68	ug/L			06/02/21 15:45	2
Chloromethane	ND		2.0	0.70	ug/L			06/02/21 15:45	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/02/21 15:45	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/02/21 15:45	2
Cyclohexane	ND		2.0	0.36	ug/L			06/02/21 15:45	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/02/21 15:45	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/02/21 15:45	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/02/21 15:45	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/02/21 15:45	2
Methyl acetate	ND		5.0	2.6	ug/L			06/02/21 15:45	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/02/21 15:45	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/02/21 15:45	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/02/21 15:45	2
Styrene	ND		2.0	1.5	ug/L			06/02/21 15:45	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/02/21 15:45	2
Toluene	ND		2.0	1.0	ug/L			06/02/21 15:45	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/02/21 15:45	2
trans-1,3-Dichloropropene	ND	*+	2.0	0.74	ug/L			06/02/21 15:45	2
Trichloroethene	ND		2.0	0.92	ug/L			06/02/21 15:45	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/02/21 15:45	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/02/21 15:45	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/02/21 15:45	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/02/21 15:45*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/02/21 15:45*	*2*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/02/21 15:45*	*2*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*06/02/21 15:45*	*2*
Dibromofluoromethane (Surr)	*86*		*75 - 123*		*06/02/21 15:45*	*2*

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5

Date Collected: 05/25/21 09:40
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/27/21 14:39	05/29/21 08:12	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/27/21 14:39	05/29/21 08:12	1

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5
Date Collected: 05/25/21 09:40
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:12	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Nitroaniline	ND		10	0.42	ug/L		05/27/21 14:39	05/29/21 08:12	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 08:12	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:12	1
3-Nitroaniline	ND		10	0.48	ug/L		05/27/21 14:39	05/29/21 08:12	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Methylphenol	ND		10	0.36	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Nitroaniline	ND		10	0.25	ug/L		05/27/21 14:39	05/29/21 08:12	1
4-Nitrophenol	ND		10	1.5	ug/L		05/27/21 14:39	05/29/21 08:12	1
Acenaphthene	ND		5.0	0.41	ug/L		05/27/21 14:39	05/29/21 08:12	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/27/21 14:39	05/29/21 08:12	1
Acetophenone	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 08:12	1
Anthracene	ND		5.0	0.28	ug/L		05/27/21 14:39	05/29/21 08:12	1
Atrazine	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:12	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/27/21 14:39	05/29/21 08:12	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:12	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:12	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 08:12	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/27/21 14:39	05/29/21 08:12	1
Caprolactam	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 08:12	1
Carbazole	ND		5.0	0.30	ug/L		05/27/21 14:39	05/29/21 08:12	1
Chrysene	ND		5.0	0.33	ug/L		05/27/21 14:39	05/29/21 08:12	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/27/21 14:39	05/29/21 08:12	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/27/21 14:39	05/29/21 08:12	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:12	1
Dibenzofuran	ND		10	0.51	ug/L		05/27/21 14:39	05/29/21 08:12	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/27/21 14:39	05/29/21 08:12	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:12	1
Fluoranthene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:12	1
Fluorene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:12	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:12	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/27/21 14:39	05/29/21 08:12	1

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5

Date Collected: 05/25/21 09:40
Matrix: Water

Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:12	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:12	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:12	1
Isophorone	ND		5.0	0.43	ug/L		05/27/21 14:39	05/29/21 08:12	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 08:12	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:12	1
Naphthalene	ND		5.0	0.76	ug/L		05/27/21 14:39	05/29/21 08:12	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/27/21 14:39	05/29/21 08:12	1
Pentachlorophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:12	1
Phenanthrene	ND		5.0	0.44	ug/L		05/27/21 14:39	05/29/21 08:12	1
Phenol	ND		5.0	0.39	ug/L		05/27/21 14:39	05/29/21 08:12	1
Pyrene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 08:12	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*4.6*	*T J*	*ug/L*		*3.33*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Unknown	*250*	*T J*	*ug/L*		*3.43*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Unknown	*3.3*	*T J*	*ug/L*		*3.67*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Heptane	*11*	*T J N*	*ug/L*		*3.69*	*142-82-5*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
Unknown	*2.6*	*T J*	*ug/L*		*4.45*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Unknown	*2.0*	*T J*	*ug/L*		*4.59*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Unknown	*36*	*T J*	*ug/L*		*5.20*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Column Bleed	*1.8*	*T J*	*ug/L*		*6.25*		*05/27/21 14:39*	*05/29/21 08:12*	*1*
Column Bleed	*2.8*	*T J*	*ug/L*		*7.20*		*05/27/21 14:39*	*05/29/21 08:12*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*46 - 120*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
Phenol-d5 (Surr)	*43*		*22 - 120*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
p-Terphenyl-d14 (Surr)	*73*		*60 - 148*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*41 - 120*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*05/27/21 14:39*	*05/29/21 08:12*	*1*
2-Fluorophenol (Surr)	*59*		*35 - 120*	*05/27/21 14:39*	*05/29/21 08:12*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 00:40	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 00:40	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 00:40	1
Barium	**0.19**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 00:40	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 00:40	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 00:40	1
Calcium	**133**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:40	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 00:40	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 00:40	1
Copper	ND		0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 00:40	1
Iron	**7.4**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 00:40	1
Lead	**0.0090**	**J**	0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 00:40	1
Magnesium	**19.1**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 00:40	1
Manganese	**0.72**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 00:40	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 00:40	1
Potassium	**5.6**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:40	1

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5
Date Collected: 05/25/21 09:40
Matrix: Water
Date Received: 05/26/21 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 00:40	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 00:40	1
Sodium	**17.5**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 00:40	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 00:40	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 00:40	1
Zinc	**0.0061**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 00:40	1

Client Sample ID: FBR-MW-30
Lab Sample ID: 480-185211-6
Date Collected: 05/25/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/21 16:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/21 16:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/21 16:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/21 16:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/21 16:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/21 16:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/21 16:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/21 16:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/21 16:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/21 16:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/21 16:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/21 16:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/21 16:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/21 16:07	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/21 16:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/21 16:07	1
Acetone	ND		10	3.0	ug/L			06/02/21 16:07	1
Benzene	ND		1.0	0.41	ug/L			06/02/21 16:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/21 16:07	1
Bromoform	ND		1.0	0.26	ug/L			06/02/21 16:07	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/21 16:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/21 16:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/21 16:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/21 16:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/21 16:07	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/21 16:07	1
Chloroform	ND		1.0	0.34	ug/L			06/02/21 16:07	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/21 16:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/21 16:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/21 16:07	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/21 16:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/21 16:07	1
Ethylbenzene	**2.1**		1.0	0.74	ug/L			06/02/21 16:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/21 16:07	1
Isopropylbenzene	**2.6**		1.0	0.79	ug/L			06/02/21 16:07	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/21 16:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/21 16:07	1

Client Sample ID: FBR-MW-30
Lab Sample ID: 480-185211-6
Date Collected: 05/25/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	**13**		1.0	0.16	ug/L			06/02/21 16:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/21 16:07	1
Styrene	ND		1.0	0.73	ug/L			06/02/21 16:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/21 16:07	1
Toluene	ND		1.0	0.51	ug/L			06/02/21 16:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/21 16:07	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.37	ug/L			06/02/21 16:07	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/21 16:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/21 16:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/21 16:07	1
Xylenes, Total	**14**		2.0	0.66	ug/L			06/02/21 16:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclopentane, 1,2,4-trimethyl-	*6.3*	*T J N*	*ug/L*		*5.34*	*2815-58-9*		*06/02/21 16:07*	*1*
Unknown	*3.4*	*T J*	*ug/L*		*5.70*			*06/02/21 16:07*	*1*
m-Xylene & p-Xylene	*7.8*		*ug/L*		*7.27*	*179601-23-1*		*06/02/21 16:07*	*1*
o-Xylene	*6.5*		*ug/L*		*7.59*	*95-47-6*		*06/02/21 16:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/02/21 16:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*06/02/21 16:07*	*1*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*06/02/21 16:07*	*1*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*06/02/21 16:07*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.6**		4.2	0.75	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluoropentanoic acid (PFPeA)	**6.0**		1.7	0.40	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorohexanoic acid (PFHxA)	**6.7**		1.7	0.38	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluoroheptanoic acid (PFHpA)	**6.1**		1.7	0.20	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorooctanoic acid (PFOA)	**16**		1.7	0.36	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorononanoic acid (PFNA)	**5.6**		1.7	0.24	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorodecanoic acid (PFDA)	**1.8**		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.32	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.53	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorobutanesulfonic acid (PFBS)	**1.0**	**J**	1.7	0.21	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorohexanesulfonic acid (PFHxS)	**3.2**		1.7	0.25	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.30**	**J**	1.7	0.20	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorooctanesulfonic acid (PFOS)	**19**		1.7	0.24	ng/L		06/02/21 15:56	06/03/21 17:06	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49	ng/L		06/02/21 15:56	06/03/21 17:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76	ng/L		06/02/21 15:56	06/03/21 17:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.62	ng/L		06/02/21 15:56	06/03/21 17:06	1
6:2 FTS	ND		4.2	0.92	ng/L		06/02/21 15:56	06/03/21 17:06	1

Client Sample ID: FBR-MW-30
Lab Sample ID: 480-185211-6
Date Collected: 05/25/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		1.7	0.33	ng/L		06/02/21 15:56	06/03/21 17:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*83*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C4 PFBA	*76*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C5 PFPeA	*94*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C2 PFHxA	*94*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C4 PFHpA	*94*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C4 PFOA	*102*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C5 PFNA	*99*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C2 PFDA	*102*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C2 PFUnA	*100*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C2 PFDoA	*92*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C2 PFTeDA	*83*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C3 PFBS	*86*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
18O2 PFHxS	*89*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
13C4 PFOS	*91*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
d3-NMeFOSAA	*112*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
d5-NEtFOSAA	*108*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*
M2-8:2 FTS	*117*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:06*	*1*

Client Sample ID: FBR-MW-21
Lab Sample ID: 480-185211-7
Date Collected: 05/25/21 12:50
Matrix: Water
Date Received: 05/26/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.10**	**J**	0.20	0.060	mg/L		06/03/21 10:10	06/04/21 00:44	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 00:44	1
Arsenic	**0.0059**	**J**	0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 00:44	1
Barium	**0.086**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 00:44	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 00:44	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 00:44	1
Calcium	**159**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:44	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 00:44	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 00:44	1
Copper	ND		0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 00:44	1
Iron	**13.1**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 00:44	1
Lead	**0.0030**	**J**	0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 00:44	1
Magnesium	**17.7**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 00:44	1
Manganese	**7.4**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 00:44	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 00:44	1
Potassium	**1.6**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:44	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 00:44	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 00:44	1
Sodium	**21.8**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 00:44	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 00:44	1
Vanadium	**0.014**		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 00:44	1
Zinc	ND		0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 00:44	1

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-18
Lab Sample ID: 480-185211-8
Date Collected: 05/25/21 14:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/27/21 14:39	05/29/21 08:39	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:39	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Nitroaniline	ND		10	0.42	ug/L		05/27/21 14:39	05/29/21 08:39	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 08:39	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:39	1
3-Nitroaniline	ND		10	0.48	ug/L		05/27/21 14:39	05/29/21 08:39	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Methylphenol	ND		10	0.36	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Nitroaniline	ND		10	0.25	ug/L		05/27/21 14:39	05/29/21 08:39	1
4-Nitrophenol	ND		10	1.5	ug/L		05/27/21 14:39	05/29/21 08:39	1
Acenaphthene	ND		5.0	0.41	ug/L		05/27/21 14:39	05/29/21 08:39	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/27/21 14:39	05/29/21 08:39	1
Acetophenone	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 08:39	1
Anthracene	ND		5.0	0.28	ug/L		05/27/21 14:39	05/29/21 08:39	1
Atrazine	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:39	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/27/21 14:39	05/29/21 08:39	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 08:39	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:39	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 08:39	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/27/21 14:39	05/29/21 08:39	1
Caprolactam	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 08:39	1
Carbazole	ND		5.0	0.30	ug/L		05/27/21 14:39	05/29/21 08:39	1
Chrysene	ND		5.0	0.33	ug/L		05/27/21 14:39	05/29/21 08:39	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/27/21 14:39	05/29/21 08:39	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/27/21 14:39	05/29/21 08:39	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:39	1
Dibenzofuran	ND		10	0.51	ug/L		05/27/21 14:39	05/29/21 08:39	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/27/21 14:39	05/29/21 08:39	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:39	1

Client Sample ID: FBR-MW-18
Lab Sample ID: 480-185211-8

Date Collected: 05/25/21 14:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 08:39	1
Fluorene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 08:39	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:39	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/27/21 14:39	05/29/21 08:39	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:39	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 08:39	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 08:39	1
Isophorone	ND		5.0	0.43	ug/L		05/27/21 14:39	05/29/21 08:39	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 08:39	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 08:39	1
Naphthalene	ND		5.0	0.76	ug/L		05/27/21 14:39	05/29/21 08:39	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/27/21 14:39	05/29/21 08:39	1
Pentachlorophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 08:39	1
Phenanthrene	ND		5.0	0.44	ug/L		05/27/21 14:39	05/29/21 08:39	1
Phenol	ND		5.0	0.39	ug/L		05/27/21 14:39	05/29/21 08:39	1
Pyrene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 08:39	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*5.8*	*T J*	*ug/L*		*3.33*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*270*	*T J*	*ug/L*		*3.43*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Heptane	*3.5*	*T J N*	*ug/L*		*3.67*	*142-82-5*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*2.8*	*T J*	*ug/L*		*4.45*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*2.8*	*T J*	*ug/L*		*4.60*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*37*	*T J*	*ug/L*		*5.20*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Column Bleed	*2.2*	*T J*	*ug/L*		*6.25*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Column Bleed	*3.8*	*T J*	*ug/L*		*7.20*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*2.9*	*T J*	*ug/L*		*7.93*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*1.6*	*T J*	*ug/L*		*8.08*		*05/27/21 14:39*	*05/29/21 08:39*	*1*
Unknown	*5.6*	*T J*	*ug/L*		*8.16*		*05/27/21 14:39*	*05/29/21 08:39*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*46 - 120*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
Phenol-d5 (Surr)	*48*		*22 - 120*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
p-Terphenyl-d14 (Surr)	*78*		*60 - 148*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*41 - 120*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
2-Fluorobiphenyl	*96*		*48 - 120*	*05/27/21 14:39*	*05/29/21 08:39*	*1*
2-Fluorophenol (Surr)	*63*		*35 - 120*	*05/27/21 14:39*	*05/29/21 08:39*	*1*

Client Sample ID: FBR-MW-15
Lab Sample ID: 480-185211-9

Date Collected: 05/25/21 11:15
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,4-Dimethylphenol	ND		25	2.5	ug/L		05/27/21 14:39	05/28/21 22:40	5

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-15
Lab Sample ID: 480-185211-9
Date Collected: 05/25/21 11:15
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	ND		50	11	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		05/27/21 14:39	05/28/21 22:40	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Chloronaphthalene	ND		25	2.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Chlorophenol	ND		25	2.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Methylphenol	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Methylnaphthalene	ND		25	3.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Nitroaniline	ND		50	2.1	ug/L		05/27/21 14:39	05/28/21 22:40	5
2-Nitrophenol	ND		25	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
3-Nitroaniline	ND		50	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Chloroaniline	ND		25	3.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Methylphenol	ND		50	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Nitroaniline	ND		50	1.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
4-Nitrophenol	ND		50	7.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
Acenaphthene	ND		25	2.1	ug/L		05/27/21 14:39	05/28/21 22:40	5
Acenaphthylene	ND		25	1.9	ug/L		05/27/21 14:39	05/28/21 22:40	5
Acetophenone	ND		25	2.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
Anthracene	ND		25	1.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
Atrazine	ND		25	2.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzaldehyde	ND		25	1.3	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzo[a]anthracene	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzo[a]pyrene	ND		25	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		05/27/21 14:39	05/28/21 22:40	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
Caprolactam	ND		25	11	ug/L		05/27/21 14:39	05/28/21 22:40	5
Carbazole	ND		25	1.5	ug/L		05/27/21 14:39	05/28/21 22:40	5
Chrysene	ND		25	1.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		05/27/21 14:39	05/28/21 22:40	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
Dibenzofuran	ND		50	2.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
Diethyl phthalate	ND		25	1.1	ug/L		05/27/21 14:39	05/28/21 22:40	5
Dimethyl phthalate	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Fluoranthene	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
Fluorene	ND		25	1.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Hexachlorobenzene	ND		25	2.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
Hexachlorobutadiene	ND		25	3.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
Hexachloroethane	ND		25	3.0	ug/L		05/27/21 14:39	05/28/21 22:40	5

Client Sample ID: FBR-MW-15
Lab Sample ID: 480-185211-9
Date Collected: 05/25/21 11:15
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		05/27/21 14:39	05/28/21 22:40	5
Isophorone	ND		25	2.2	ug/L		05/27/21 14:39	05/28/21 22:40	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		05/27/21 14:39	05/28/21 22:40	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		05/27/21 14:39	05/28/21 22:40	5
Naphthalene	ND		25	3.8	ug/L		05/27/21 14:39	05/28/21 22:40	5
Nitrobenzene	ND		25	1.5	ug/L		05/27/21 14:39	05/28/21 22:40	5
Pentachlorophenol	ND		50	11	ug/L		05/27/21 14:39	05/28/21 22:40	5
Phenanthrene	ND		25	2.2	ug/L		05/27/21 14:39	05/28/21 22:40	5
Phenol	ND		25	2.0	ug/L		05/27/21 14:39	05/28/21 22:40	5
Pyrene	ND		25	1.7	ug/L		05/27/21 14:39	05/28/21 22:40	5

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane	*50*	*T J N*	*ug/L*		*3.18*	*110-82-7*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
Unknown	*270*	*T J*	*ug/L*		*3.35*		*05/27/21 14:39*	*05/28/21 22:40*	*5*
Heptane	*41*	*T J N*	*ug/L*		*3.61*	*142-82-5*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
Unknown	*44*	*T J*	*ug/L*		*5.19*		*05/27/21 14:39*	*05/28/21 22:40*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*84*		*46 - 120*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
Phenol-d5 (Surr)	*50*		*22 - 120*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
p-Terphenyl-d14 (Surr)	*77*		*60 - 148*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
2,4,6-Tribromophenol (Surr)	*86*		*41 - 120*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
2-Fluorobiphenyl	*95*		*48 - 120*	*05/27/21 14:39*	*05/28/21 22:40*	*5*
2-Fluorophenol (Surr)	*61*		*35 - 120*	*05/27/21 14:39*	*05/28/21 22:40*	*5*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.060	0.011	ug/L		05/27/21 08:24	05/28/21 11:28	1
4,4'-DDE	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 11:28	1
4,4'-DDT	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 11:28	1
Aldrin	ND		0.060	0.0096	ug/L		05/27/21 08:24	05/28/21 11:28	1
alpha-BHC	ND		0.060	0.0092	ug/L		05/27/21 08:24	05/28/21 11:28	1
cis-Chlordane	ND		0.060	0.018	ug/L		05/27/21 08:24	05/28/21 11:28	1
beta-BHC	ND		0.060	0.030	ug/L		05/27/21 08:24	05/28/21 11:28	1
delta-BHC	ND		0.060	0.012	ug/L		05/27/21 08:24	05/28/21 11:28	1
Dieldrin	ND		0.060	0.012	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endosulfan I	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endosulfan II	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endosulfan sulfate	ND		0.060	0.019	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endrin	ND		0.060	0.016	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endrin aldehyde	ND	F2 F1	0.060	0.019	ug/L		05/27/21 08:24	05/28/21 11:28	1
Endrin ketone	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 11:28	1
gamma-BHC (Lindane)	ND		0.060	0.0095	ug/L		05/27/21 08:24	05/28/21 11:28	1
trans-Chlordane	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 11:28	1
Heptachlor	ND		0.060	0.010	ug/L		05/27/21 08:24	05/28/21 11:28	1
Heptachlor epoxide	ND		0.060	0.0088	ug/L		05/27/21 08:24	05/28/21 11:28	1
Methoxychlor	ND		0.060	0.017	ug/L		05/27/21 08:24	05/28/21 11:28	1
Toxaphene	ND		0.60	0.14	ug/L		05/27/21 08:24	05/28/21 11:28	1

Client Sample ID: FBR-MW-15
Lab Sample ID: 480-185211-9

Date Collected: 05/25/21 11:15
Matrix: Water
Date Received: 05/26/21 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*20 - 120*	*05/27/21 08:24*	*05/28/21 11:28*	*1*
DCB Decachlorobiphenyl	*58*		*20 - 120*	*05/27/21 08:24*	*05/28/21 11:28*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*05/27/21 08:24*	*05/28/21 11:28*	*1*
Tetrachloro-m-xylene	*67*		*44 - 120*	*05/27/21 08:24*	*05/28/21 11:28*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 15:36	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*39 - 121*	*05/28/21 14:33*	*06/01/21 15:36*	*1*
Tetrachloro-m-xylene	*79*		*39 - 121*	*05/28/21 14:33*	*06/01/21 15:36*	*1*
DCB Decachlorobiphenyl	*41*		*19 - 120*	*05/28/21 14:33*	*06/01/21 15:36*	*1*
DCB Decachlorobiphenyl	*41*		*19 - 120*	*05/28/21 14:33*	*06/01/21 15:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 00:48	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 00:48	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 00:48	1
Barium	**0.055**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 00:48	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 00:48	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 00:48	1
Calcium	**138**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:48	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 00:48	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 00:48	1
Copper	**0.0018**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 00:48	1
Iron	**2.6**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 00:48	1
Lead	ND		0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 00:48	1
Magnesium	**24.7**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 00:48	1
Manganese	**0.46**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 00:48	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 00:48	1
Potassium	**2.5**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:48	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 00:48	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 00:48	1
Sodium	**172**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 00:48	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 00:48	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 00:48	1
Zinc	**0.0042**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 00:48	1

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-15D
Lab Sample ID: 480-185211-10
Date Collected: 05/25/21 12:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.060	0.011	ug/L		05/27/21 08:24	05/28/21 13:46	1
4,4'-DDE	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 13:46	1
4,4'-DDT	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 13:46	1
Aldrin	ND		0.060	0.0096	ug/L		05/27/21 08:24	05/28/21 13:46	1
alpha-BHC	ND		0.060	0.0092	ug/L		05/27/21 08:24	05/28/21 13:46	1
cis-Chlordane	ND		0.060	0.018	ug/L		05/27/21 08:24	05/28/21 13:46	1
beta-BHC	ND		0.060	0.030	ug/L		05/27/21 08:24	05/28/21 13:46	1
delta-BHC	ND		0.060	0.012	ug/L		05/27/21 08:24	05/28/21 13:46	1
Dieldrin	ND		0.060	0.012	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endosulfan I	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endosulfan II	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endosulfan sulfate	ND		0.060	0.019	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endrin	ND		0.060	0.016	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endrin aldehyde	ND		0.060	0.019	ug/L		05/27/21 08:24	05/28/21 13:46	1
Endrin ketone	ND		0.060	0.014	ug/L		05/27/21 08:24	05/28/21 13:46	1
gamma-BHC (Lindane)	ND		0.060	0.0095	ug/L		05/27/21 08:24	05/28/21 13:46	1
trans-Chlordane	ND		0.060	0.013	ug/L		05/27/21 08:24	05/28/21 13:46	1
Heptachlor	ND		0.060	0.010	ug/L		05/27/21 08:24	05/28/21 13:46	1
Heptachlor epoxide	ND		0.060	0.0088	ug/L		05/27/21 08:24	05/28/21 13:46	1
Methoxychlor	ND		0.060	0.017	ug/L		05/27/21 08:24	05/28/21 13:46	1
Toxaphene	ND		0.60	0.14	ug/L		05/27/21 08:24	05/28/21 13:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*74*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:46*	*1*
DCB Decachlorobiphenyl	*65*		*20 - 120*	*05/27/21 08:24*	*05/28/21 13:46*	*1*
Tetrachloro-m-xylene	*88*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:46*	*1*
Tetrachloro-m-xylene	*75*		*44 - 120*	*05/27/21 08:24*	*05/28/21 13:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:53	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*39 - 121*	*05/28/21 14:33*	*06/01/21 16:53*	*1*
Tetrachloro-m-xylene	*78*		*39 - 121*	*05/28/21 14:33*	*06/01/21 16:53*	*1*
DCB Decachlorobiphenyl	*58*		*19 - 120*	*05/28/21 14:33*	*06/01/21 16:53*	*1*
DCB Decachlorobiphenyl	*59*		*19 - 120*	*05/28/21 14:33*	*06/01/21 16:53*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.21**		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 01:18	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 01:18	1

Client Sample ID: FBR-MW-15D
Lab Sample ID: 480-185211-10

Date Collected: 05/25/21 12:30
Matrix: Water
Date Received: 05/26/21 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 01:18	1
Barium	**0.032**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 01:18	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 01:18	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 01:18	1
Calcium	**167**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:18	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 01:18	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 01:18	1
Copper	**0.0029**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 01:18	1
Iron	**0.46**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 01:18	1
Lead	**0.0059**	**J**	0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 01:18	1
Magnesium	**29.7**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 01:18	1
Manganese	**0.17**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 01:18	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 01:18	1
Potassium	**3.5**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:18	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 01:18	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 01:18	1
Sodium	**159**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 01:18	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 01:18	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 01:18	1
Zinc	**0.010**		0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 01:18	1

Client Sample ID: FBR-MW-19D
Lab Sample ID: 480-185211-11

Date Collected: 05/24/21 12:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/21 16:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/21 16:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/21 16:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/21 16:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/21 16:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/21 16:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/21 16:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/21 16:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/21 16:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/21 16:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/21 16:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/21 16:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/21 16:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/21 16:29	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/21 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/21 16:29	1
Acetone	ND		10	3.0	ug/L			06/02/21 16:29	1
Benzene	ND		1.0	0.41	ug/L			06/02/21 16:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/21 16:29	1
Bromoform	ND		1.0	0.26	ug/L			06/02/21 16:29	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/21 16:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/21 16:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/21 16:29	1

Client Sample ID: FBR-MW-19D
Lab Sample ID: 480-185211-11
Date Collected: 05/24/21 12:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/21 16:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/21 16:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/21 16:29	1
Chloroform	ND		1.0	0.34	ug/L			06/02/21 16:29	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/21 16:29	1
cis-1,2-Dichloroethene	**12**		1.0	0.81	ug/L			06/02/21 16:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/21 16:29	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/21 16:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/21 16:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/21 16:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/21 16:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/21 16:29	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/21 16:29	1
Methyl tert-butyl ether	**0.29**	**J**	1.0	0.16	ug/L			06/02/21 16:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/21 16:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/21 16:29	1
Styrene	ND		1.0	0.73	ug/L			06/02/21 16:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/21 16:29	1
Toluene	ND		1.0	0.51	ug/L			06/02/21 16:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/21 16:29	1
trans-1,3-Dichloropropene	ND	*+	1.0	0.37	ug/L			06/02/21 16:29	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/21 16:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/21 16:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/21 16:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/21 16:29	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/02/21 16:29*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/02/21 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*		*06/02/21 16:29*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*06/02/21 16:29*	*1*
Dibromofluoromethane (Surr)	*81*		*75 - 123*		*06/02/21 16:29*	*1*

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12
Date Collected: 05/24/21 13:55
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			06/02/21 16:52	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			06/02/21 16:52	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			06/02/21 16:52	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			06/02/21 16:52	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			06/02/21 16:52	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			06/02/21 16:52	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			06/02/21 16:52	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			06/02/21 16:52	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 16:52	2

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12
Date Collected: 05/24/21 13:55
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		2.0	0.42	ug/L			06/02/21 16:52	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			06/02/21 16:52	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			06/02/21 16:52	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			06/02/21 16:52	2
2-Butanone (MEK)	ND		20	2.6	ug/L			06/02/21 16:52	2
2-Hexanone	ND		10	2.5	ug/L			06/02/21 16:52	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			06/02/21 16:52	2
Acetone	ND		20	6.0	ug/L			06/02/21 16:52	2
Benzene	ND		2.0	0.82	ug/L			06/02/21 16:52	2
Bromodichloromethane	ND		2.0	0.78	ug/L			06/02/21 16:52	2
Bromoform	ND		2.0	0.52	ug/L			06/02/21 16:52	2
Bromomethane	ND		2.0	1.4	ug/L			06/02/21 16:52	2
Carbon disulfide	ND		2.0	0.38	ug/L			06/02/21 16:52	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			06/02/21 16:52	2
Chlorobenzene	ND		2.0	1.5	ug/L			06/02/21 16:52	2
Dibromochloromethane	ND		2.0	0.64	ug/L			06/02/21 16:52	2
Chloroethane	ND		2.0	0.64	ug/L			06/02/21 16:52	2
Chloroform	ND		2.0	0.68	ug/L			06/02/21 16:52	2
Chloromethane	ND		2.0	0.70	ug/L			06/02/21 16:52	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			06/02/21 16:52	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			06/02/21 16:52	2
Cyclohexane	ND		2.0	0.36	ug/L			06/02/21 16:52	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			06/02/21 16:52	2
Ethylbenzene	ND		2.0	1.5	ug/L			06/02/21 16:52	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			06/02/21 16:52	2
Isopropylbenzene	ND		2.0	1.6	ug/L			06/02/21 16:52	2
Methyl acetate	ND		5.0	2.6	ug/L			06/02/21 16:52	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			06/02/21 16:52	2
Methylcyclohexane	ND		2.0	0.32	ug/L			06/02/21 16:52	2
Methylene Chloride	ND		2.0	0.88	ug/L			06/02/21 16:52	2
Styrene	ND		2.0	1.5	ug/L			06/02/21 16:52	2
Tetrachloroethene	ND		2.0	0.72	ug/L			06/02/21 16:52	2
Toluene	ND		2.0	1.0	ug/L			06/02/21 16:52	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			06/02/21 16:52	2
trans-1,3-Dichloropropene	ND	*+	2.0	0.74	ug/L			06/02/21 16:52	2
Trichloroethene	ND		2.0	0.92	ug/L			06/02/21 16:52	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			06/02/21 16:52	2
Vinyl chloride	ND		2.0	1.8	ug/L			06/02/21 16:52	2
Xylenes, Total	ND		4.0	1.3	ug/L			06/02/21 16:52	2

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*06/02/21 16:52*	*2*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*06/02/21 16:52*	*2*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*06/02/21 16:52*	*2*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*06/02/21 16:52*	*2*
Dibromofluoromethane (Surr)	*84*		*75 - 123*		*06/02/21 16:52*	*2*

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12

Date Collected: 05/24/21 13:55
Matrix: Water

Date Received: 05/26/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.15**	**J**	0.20	0.10	ug/L		05/26/21 15:19	05/28/21 22:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*93*		*15 - 110*	*05/26/21 15:19*	*05/28/21 22:24*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**16**		4.6	0.82	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluoropentanoic acid (PFPeA)	**3.2**		1.8	0.44	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorohexanoic acid (PFHxA)	**4.5**		1.8	0.42	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluoroheptanoic acid (PFHpA)	**1.3**	**J**	1.8	0.22	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorooctanoic acid (PFOA)	**1.4**	**J**	1.8	0.39	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorononanoic acid (PFNA)	**0.34**	**J**	1.8	0.26	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.32	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.36	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.40	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.58	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorobutanesulfonic acid (PFBS)	**1.4**	**J**	1.8	0.23	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorohexanesulfonic acid (PFHxS)	**0.93**	**J**	1.8	0.28	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.22	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorooctanesulfonic acid (PFOS)	**0.63**	**J**	1.8	0.27	ng/L		06/02/21 15:56	06/03/21 17:14	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.53	ng/L		06/02/21 15:56	06/03/21 17:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	0.83	ng/L		06/02/21 15:56	06/03/21 17:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	0.69	ng/L		06/02/21 15:56	06/03/21 17:14	1
6:2 FTS	**4.1**	**J**	4.6	1.0	ng/L		06/02/21 15:56	06/03/21 17:14	1
8:2 FTS	ND		1.8	0.36	ng/L		06/02/21 15:56	06/03/21 17:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*56*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C4 PFBA	*44*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C5 PFPeA	*56*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C2 PFHxA	*61*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C4 PFHpA	*65*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C4 PFOA	*67*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C5 PFNA	*69*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C2 PFDA	*72*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C2 PFUnA	*70*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C2 PFDoA	*62*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C2 PFTeDA	*63*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C3 PFBS	*58*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
18O2 PFHxS	*56*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
13C4 PFOS	*63*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
d3-NMeFOSAA	*73*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
d5-NEtFOSAA	*81*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*
M2-6:2 FTS	*64*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:14*	*1*

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12
Date Collected: 05/24/21 13:55
Matrix: Water
Date Received: 05/26/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	73		25 - 150	06/02/21 15:56	06/03/21 17:14	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.097**	**J**	0.20	0.060	mg/L		06/03/21 10:10	06/04/21 01:22	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 01:22	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 01:22	1
Barium	**0.12**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 01:22	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 01:22	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 01:22	1
Calcium	**361**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:22	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 01:22	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 01:22	1
Copper	**0.0064**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 01:22	1
Iron	**1.3**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 01:22	1
Lead	**0.0039**	**J**	0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 01:22	1
Magnesium	**21.1**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 01:22	1
Manganese	**0.34**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 01:22	1
Nickel	**0.0021**	**J**	0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 01:22	1
Potassium	**15.1**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:22	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 01:22	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 01:22	1
Sodium	**42.2**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 01:22	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 01:22	1
Vanadium	**0.0052**		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 01:22	1
Zinc	**0.0034**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 01:22	1

Client Sample ID: FBR-MW-32
Lab Sample ID: 480-185211-13
Date Collected: 05/24/21 15:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.054	0.010	ug/L		05/27/21 08:24	05/28/21 14:06	1
4,4'-DDE	ND		0.054	0.013	ug/L		05/27/21 08:24	05/28/21 14:06	1
4,4'-DDT	ND		0.054	0.012	ug/L		05/27/21 08:24	05/28/21 14:06	1
Aldrin	ND		0.054	0.0088	ug/L		05/27/21 08:24	05/28/21 14:06	1
alpha-BHC	ND		0.054	0.0084	ug/L		05/27/21 08:24	05/28/21 14:06	1
cis-Chlordane	ND		0.054	0.016	ug/L		05/27/21 08:24	05/28/21 14:06	1
beta-BHC	ND		0.054	0.027	ug/L		05/27/21 08:24	05/28/21 14:06	1
delta-BHC	ND		0.054	0.011	ug/L		05/27/21 08:24	05/28/21 14:06	1
Dieldrin	ND		0.054	0.011	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endosulfan I	ND		0.054	0.012	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endosulfan II	ND		0.054	0.013	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endosulfan sulfate	ND		0.054	0.017	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endrin	ND		0.054	0.015	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endrin aldehyde	ND		0.054	0.018	ug/L		05/27/21 08:24	05/28/21 14:06	1
Endrin ketone	ND		0.054	0.013	ug/L		05/27/21 08:24	05/28/21 14:06	1
gamma-BHC (Lindane)	ND		0.054	0.0087	ug/L		05/27/21 08:24	05/28/21 14:06	1
trans-Chlordane	ND		0.054	0.012	ug/L		05/27/21 08:24	05/28/21 14:06	1

Client Sample ID: FBR-MW-32
Lab Sample ID: 480-185211-13
Date Collected: 05/24/21 15:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.054	0.0092	ug/L		05/27/21 08:24	05/28/21 14:06	1
Heptachlor epoxide	ND		0.054	0.0080	ug/L		05/27/21 08:24	05/28/21 14:06	1
Methoxychlor	ND		0.054	0.015	ug/L		05/27/21 08:24	05/28/21 14:06	1
Toxaphene	ND		0.54	0.13	ug/L		05/27/21 08:24	05/28/21 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*20 - 120*	*05/27/21 08:24*	*05/28/21 14:06*	*1*
DCB Decachlorobiphenyl	*59*		*20 - 120*	*05/27/21 08:24*	*05/28/21 14:06*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*05/27/21 08:24*	*05/28/21 14:06*	*1*
Tetrachloro-m-xylene	*66*		*44 - 120*	*05/27/21 08:24*	*05/28/21 14:06*	*1*

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14
Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		8.0	6.6	ug/L			06/02/21 17:14	8
1,1,2,2-Tetrachloroethane	ND		8.0	1.7	ug/L			06/02/21 17:14	8
1,1,2-Trichloroethane	ND		8.0	1.8	ug/L			06/02/21 17:14	8
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5	ug/L			06/02/21 17:14	8
1,1-Dichloroethane	ND		8.0	3.0	ug/L			06/02/21 17:14	8
1,1-Dichloroethene	ND		8.0	2.3	ug/L			06/02/21 17:14	8
1,2,4-Trichlorobenzene	ND		8.0	3.3	ug/L			06/02/21 17:14	8
1,2-Dibromo-3-Chloropropane	ND		8.0	3.1	ug/L			06/02/21 17:14	8
1,2-Dichlorobenzene	ND		8.0	6.3	ug/L			06/02/21 17:14	8
1,2-Dichloroethane	ND		8.0	1.7	ug/L			06/02/21 17:14	8
1,2-Dichloropropane	ND		8.0	5.8	ug/L			06/02/21 17:14	8
1,3-Dichlorobenzene	ND		8.0	6.2	ug/L			06/02/21 17:14	8
1,4-Dichlorobenzene	ND		8.0	6.7	ug/L			06/02/21 17:14	8
2-Butanone (MEK)	ND		80	11	ug/L			06/02/21 17:14	8
2-Hexanone	ND		40	9.9	ug/L			06/02/21 17:14	8
4-Methyl-2-pentanone (MIBK)	ND		40	17	ug/L			06/02/21 17:14	8
Acetone	**57**	**J**	80	24	ug/L			06/02/21 17:14	8
Benzene	ND		8.0	3.3	ug/L			06/02/21 17:14	8
Bromodichloromethane	ND		8.0	3.1	ug/L			06/02/21 17:14	8
Bromoform	ND		8.0	2.1	ug/L			06/02/21 17:14	8
Bromomethane	ND		8.0	5.5	ug/L			06/02/21 17:14	8
Carbon disulfide	ND		8.0	1.5	ug/L			06/02/21 17:14	8
Carbon tetrachloride	ND		8.0	2.2	ug/L			06/02/21 17:14	8
Chlorobenzene	ND		8.0	6.0	ug/L			06/02/21 17:14	8
Dibromochloromethane	ND		8.0	2.6	ug/L			06/02/21 17:14	8
Chloroethane	ND		8.0	2.6	ug/L			06/02/21 17:14	8
Chloroform	ND		8.0	2.7	ug/L			06/02/21 17:14	8
Chloromethane	ND		8.0	2.8	ug/L			06/02/21 17:14	8
cis-1,2-Dichloroethene	ND		8.0	6.5	ug/L			06/02/21 17:14	8
cis-1,3-Dichloropropene	ND		8.0	2.9	ug/L			06/02/21 17:14	8
Cyclohexane	ND		8.0	1.4	ug/L			06/02/21 17:14	8
Dichlorodifluoromethane	ND		8.0	5.4	ug/L			06/02/21 17:14	8
Ethylbenzene	ND		8.0	5.9	ug/L			06/02/21 17:14	8

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14

Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		8.0	5.8	ug/L			06/02/21 17:14	8
Isopropylbenzene	ND		8.0	6.3	ug/L			06/02/21 17:14	8
Methyl acetate	ND		20	10	ug/L			06/02/21 17:14	8
Methyl tert-butyl ether	ND		8.0	1.3	ug/L			06/02/21 17:14	8
Methylcyclohexane	ND		8.0	1.3	ug/L			06/02/21 17:14	8
Methylene Chloride	ND		8.0	3.5	ug/L			06/02/21 17:14	8
Styrene	ND		8.0	5.8	ug/L			06/02/21 17:14	8
Tetrachloroethene	ND		8.0	2.9	ug/L			06/02/21 17:14	8
Toluene	ND		8.0	4.1	ug/L			06/02/21 17:14	8
trans-1,2-Dichloroethene	ND		8.0	7.2	ug/L			06/02/21 17:14	8
trans-1,3-Dichloropropene	ND	*+	8.0	3.0	ug/L			06/02/21 17:14	8
Trichloroethene	ND		8.0	3.7	ug/L			06/02/21 17:14	8
Trichlorofluoromethane	ND		8.0	7.0	ug/L			06/02/21 17:14	8
Vinyl chloride	ND		8.0	7.2	ug/L			06/02/21 17:14	8
Xylenes, Total	ND		16	5.3	ug/L			06/02/21 17:14	8

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Silanol, trimethyl-	*150*	*T J N*	*ug/L*		*3.98*	*1066-40-6*		*06/02/21 17:14*	*8*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/02/21 17:14*	*8*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*06/02/21 17:14*	*8*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*06/02/21 17:14*	*8*
Dibromofluoromethane (Surr)	*85*		*75 - 123*		*06/02/21 17:14*	*8*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.2**		0.20	0.10	ug/L		05/26/21 15:19	05/28/21 22:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*89*		*15 - 110*	*05/26/21 15:19*	*05/28/21 22:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		25	3.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
bis (2-chloroisopropyl) ether	ND		25	2.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4,5-Trichlorophenol	ND		25	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4,6-Trichlorophenol	ND		25	3.1	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4-Dichlorophenol	ND		25	2.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4-Dimethylphenol	**4.4**	**J**	25	2.5	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4-Dinitrophenol	ND		50	11	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,4-Dinitrotoluene	ND		25	2.2	ug/L		05/27/21 14:39	05/29/21 09:06	5
2,6-Dinitrotoluene	ND		25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Chloronaphthalene	ND		25	2.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Chlorophenol	ND		25	2.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Methylphenol	**2.9**	**J**	25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Methylnaphthalene	ND		25	3.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Nitroaniline	ND		50	2.1	ug/L		05/27/21 14:39	05/29/21 09:06	5
2-Nitrophenol	ND		25	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
3,3'-Dichlorobenzidine	ND		25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
3-Nitroaniline	ND		50	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14
Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		50	11	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Bromophenyl phenyl ether	ND		25	2.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Chloro-3-methylphenol	ND		25	2.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Chloroaniline	ND		25	3.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Chlorophenyl phenyl ether	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Methylphenol	**9.6**	**J**	50	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Nitroaniline	ND		50	1.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
4-Nitrophenol	ND		50	7.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
Acenaphthene	ND		25	2.1	ug/L		05/27/21 14:39	05/29/21 09:06	5
Acenaphthylene	ND		25	1.9	ug/L		05/27/21 14:39	05/29/21 09:06	5
Acetophenone	ND		25	2.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
Anthracene	ND		25	1.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
Atrazine	ND		25	2.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzaldehyde	ND		25	1.3	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzo[a]anthracene	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzo[a]pyrene	ND		25	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzo[b]fluoranthene	ND		25	1.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzo[g,h,i]perylene	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Benzo[k]fluoranthene	ND		25	3.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
Bis(2-chloroethoxy)methane	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Bis(2-chloroethyl)ether	ND		25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Bis(2-ethylhexyl) phthalate	ND		25	11	ug/L		05/27/21 14:39	05/29/21 09:06	5
Butyl benzyl phthalate	ND		25	5.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Caprolactam	ND		25	11	ug/L		05/27/21 14:39	05/29/21 09:06	5
Carbazole	ND		25	1.5	ug/L		05/27/21 14:39	05/29/21 09:06	5
Chrysene	ND		25	1.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
Dibenz(a,h)anthracene	ND		25	2.1	ug/L		05/27/21 14:39	05/29/21 09:06	5
Di-n-butyl phthalate	ND		25	1.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
Di-n-octyl phthalate	ND		25	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
Dibenzofuran	ND		50	2.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
Diethyl phthalate	ND		25	1.1	ug/L		05/27/21 14:39	05/29/21 09:06	5
Dimethyl phthalate	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Fluoranthene	ND		25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Fluorene	ND		25	1.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Hexachlorobenzene	ND		25	2.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
Hexachlorobutadiene	ND		25	3.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
Hexachlorocyclopentadiene	ND		25	3.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Hexachloroethane	ND		25	3.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Indeno[1,2,3-cd]pyrene	ND		25	2.4	ug/L		05/27/21 14:39	05/29/21 09:06	5
Isophorone	ND		25	2.2	ug/L		05/27/21 14:39	05/29/21 09:06	5
N-Nitrosodi-n-propylamine	ND		25	2.7	ug/L		05/27/21 14:39	05/29/21 09:06	5
N-Nitrosodiphenylamine	ND		25	2.6	ug/L		05/27/21 14:39	05/29/21 09:06	5
Naphthalene	ND		25	3.8	ug/L		05/27/21 14:39	05/29/21 09:06	5
Nitrobenzene	ND		25	1.5	ug/L		05/27/21 14:39	05/29/21 09:06	5
Pentachlorophenol	ND		50	11	ug/L		05/27/21 14:39	05/29/21 09:06	5
Phenanthrene	ND		25	2.2	ug/L		05/27/21 14:39	05/29/21 09:06	5
Phenol	ND		25	2.0	ug/L		05/27/21 14:39	05/29/21 09:06	5
Pyrene	ND		25	1.7	ug/L		05/27/21 14:39	05/29/21 09:06	5

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14
Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Cyclohexane	38	T J N	ug/L		3.18	110-82-7	05/27/21 14:39	05/29/21 09:06	5
Unknown	200	T J	ug/L		3.35		05/27/21 14:39	05/29/21 09:06	5
Heptane	32	T J N	ug/L		3.61	142-82-5	05/27/21 14:39	05/29/21 09:06	5
Unknown	26	T J	ug/L		5.19		05/27/21 14:39	05/29/21 09:06	5
Phenol, 2,6-dimethyl-	36	T J N	ug/L		7.19	576-26-1	05/27/21 14:39	05/29/21 09:06	5
Unknown	28	T J	ug/L		7.56		05/27/21 14:39	05/29/21 09:06	5
Unknown	27	T J	ug/L		7.67		05/27/21 14:39	05/29/21 09:06	5
Unknown	47	T J	ug/L		7.89		05/27/21 14:39	05/29/21 09:06	5
Unknown	35	T J	ug/L		7.98		05/27/21 14:39	05/29/21 09:06	5
Benzeneacetic acid, .alpha.-methyl-	27	T J N	ug/L		8.15	492-37-5	05/27/21 14:39	05/29/21 09:06	5
p-Tolylacetic acid	66	T J N	ug/L		8.38	622-47-9	05/27/21 14:39	05/29/21 09:06	5
Unknown	180	T J	ug/L		8.42		05/27/21 14:39	05/29/21 09:06	5
Benzoic acid, 2,6-dimethyl-	84	T J N	ug/L		8.46	632-46-2	05/27/21 14:39	05/29/21 09:06	5
Benzoic acid, 3,4-dimethyl-	80	T J N	ug/L		8.51	619-04-5	05/27/21 14:39	05/29/21 09:06	5
Benzoic acid, 2,5-dimethyl-	59	T J N	ug/L		8.55	610-72-0	05/27/21 14:39	05/29/21 09:06	5
Unknown	31	T J	ug/L		8.58		05/27/21 14:39	05/29/21 09:06	5
Benzoic acid, 3,5-dimethyl-	37	T J N	ug/L		8.69	499-06-9	05/27/21 14:39	05/29/21 09:06	5
Unknown	43	T J	ug/L		8.86		05/27/21 14:39	05/29/21 09:06	5
Unknown	23	T J	ug/L		8.96		05/27/21 14:39	05/29/21 09:06	5
1-Naphthalenecarboxylic acid	58	T J N	ug/L		9.98	86-55-5	05/27/21 14:39	05/29/21 09:06	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		46 - 120	05/27/21 14:39	05/29/21 09:06	5
Phenol-d5 (Surr)	47		22 - 120	05/27/21 14:39	05/29/21 09:06	5
p-Terphenyl-d14 (Surr)	55	S1-	60 - 148	05/27/21 14:39	05/29/21 09:06	5
2,4,6-Tribromophenol (Surr)	92		41 - 120	05/27/21 14:39	05/29/21 09:06	5
2-Fluorobiphenyl	87		48 - 120	05/27/21 14:39	05/29/21 09:06	5
2-Fluorophenol (Surr)	65		35 - 120	05/27/21 14:39	05/29/21 09:06	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.31	0.058	ug/L		05/27/21 08:24	06/01/21 09:55	5
4,4'-DDE	ND		0.31	0.073	ug/L		05/27/21 08:24	06/01/21 09:55	5
4,4'-DDT	ND		0.31	0.069	ug/L		05/27/21 08:24	06/01/21 09:55	5
Aldrin	ND		0.31	0.051	ug/L		05/27/21 08:24	06/01/21 09:55	5
alpha-BHC	ND		0.31	0.048	ug/L		05/27/21 08:24	06/01/21 09:55	5
cis-Chlordane	ND		0.31	0.093	ug/L		05/27/21 08:24	06/01/21 09:55	5
beta-BHC	ND		0.31	0.16	ug/L		05/27/21 08:24	06/01/21 09:55	5
delta-BHC	ND		0.31	0.063	ug/L		05/27/21 08:24	06/01/21 09:55	5
Dieldrin	ND		0.31	0.061	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endosulfan I	ND		0.31	0.069	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endosulfan II	ND		0.31	0.075	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endosulfan sulfate	ND		0.31	0.098	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endrin	ND		0.31	0.086	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endrin aldehyde	ND		0.31	0.10	ug/L		05/27/21 08:24	06/01/21 09:55	5
Endrin ketone	ND		0.31	0.075	ug/L		05/27/21 08:24	06/01/21 09:55	5
gamma-BHC (Lindane)	ND		0.31	0.050	ug/L		05/27/21 08:24	06/01/21 09:55	5
trans-Chlordane	ND		0.31	0.069	ug/L		05/27/21 08:24	06/01/21 09:55	5
Heptachlor	ND		0.31	0.053	ug/L		05/27/21 08:24	06/01/21 09:55	5
Heptachlor epoxide	ND		0.31	0.046	ug/L		05/27/21 08:24	06/01/21 09:55	5

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14

Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.31	0.088	ug/L		05/27/21 08:24	06/01/21 09:55	5
Toxaphene	ND		3.1	0.75	ug/L		05/27/21 08:24	06/01/21 09:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1-*	*20 - 120*	*05/27/21 08:24*	*06/01/21 09:55*	*5*
DCB Decachlorobiphenyl	*0*	*S1-*	*20 - 120*	*05/27/21 08:24*	*06/01/21 09:55*	*5*
Tetrachloro-m-xylene	*64*		*44 - 120*	*05/27/21 08:24*	*06/01/21 09:55*	*5*
Tetrachloro-m-xylene	*28*	*S1-*	*44 - 120*	*05/27/21 08:24*	*06/01/21 09:55*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:06	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*39 - 121*	*05/28/21 14:33*	*06/01/21 17:06*	*1*
Tetrachloro-m-xylene	*46*		*39 - 121*	*05/28/21 14:33*	*06/01/21 17:06*	*1*
DCB Decachlorobiphenyl	*23*		*19 - 120*	*05/28/21 14:33*	*06/01/21 17:06*	*1*
DCB Decachlorobiphenyl	*22*		*19 - 120*	*05/28/21 14:33*	*06/01/21 17:06*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	0.81	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluoropentanoic acid (PFPeA)	**10**		1.8	0.43	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorohexanoic acid (PFHxA)	**15**		1.8	0.41	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluoroheptanoic acid (PFHpA)	**3.6**		1.8	0.22	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorooctanoic acid (PFOA)	**20**		1.8	0.38	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorononanoic acid (PFNA)	**2.8**		1.8	0.25	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorodecanoic acid (PFDA)	**0.66**	**J**	1.8	0.28	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.57	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorobutanesulfonic acid (PFBS)	**4.8**	**I**	1.8	0.23	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.8	0.27	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.36**	**J**	1.8	0.21	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.8	0.26	ng/L		06/02/21 15:56	06/03/21 17:23	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52	ng/L		06/02/21 15:56	06/03/21 17:23	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.82	ng/L		06/02/21 15:56	06/03/21 17:23	1

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14

Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**1.0**	**J**	4.5	0.67	ng/L		06/02/21 15:56	06/03/21 17:23	1
6:2 FTS	**6.9**		4.5	0.99	ng/L		06/02/21 15:56	06/03/21 17:23	1
8:2 FTS	ND		1.8	0.35	ng/L		06/02/21 15:56	06/03/21 17:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C4 PFBA	*12*	*5-	*25 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C5 PFPeA	*60*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C2 PFHxA	*82*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C4 PFHpA	*87*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C4 PFOA	*97*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C5 PFNA	*96*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C2 PFDA	*110*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C2 PFUnA	*105*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C2 PFDoA	*79*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C2 PFTeDA	*34*	*5-	*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C3 PFBS	*88*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
18O2 PFHxS	*91*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
13C4 PFOS	*82*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
d3-NMeFOSAA	*133*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
d5-NEtFOSAA	*140*		*50 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
M2-6:2 FTS	*140*		*25 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*
M2-8:2 FTS	*153*	*5+	*25 - 150*	*06/02/21 15:56*	*06/03/21 17:23*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.066**	**J**	0.20	0.060	mg/L		06/03/21 10:10	06/04/21 01:25	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 01:25	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 01:25	1
Barium	**0.055**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 01:25	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 01:25	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 01:25	1
Calcium	**105**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:25	1
Chromium	**0.0032**	**J**	0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 01:25	1
Cobalt	**0.00066**	**J**	0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 01:25	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 01:25	1
Iron	**0.63**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 01:25	1
Lead	ND		0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 01:25	1
Magnesium	**5.5**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 01:25	1
Manganese	**0.029**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 01:25	1
Nickel	**0.0084**	**J**	0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 01:25	1
Potassium	**75.2**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:25	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 01:25	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 01:25	1
Sodium	**162**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 01:25	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 01:25	1
Vanadium	**0.0058**		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 01:25	1
Zinc	**0.0022**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 01:25	1

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: DUP
Lab Sample ID: 480-185211-15
Date Collected: 05/25/21 16:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/27/21 14:39	05/29/21 09:34	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 09:34	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Nitroaniline	ND		10	0.42	ug/L		05/27/21 14:39	05/29/21 09:34	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/29/21 09:34	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 09:34	1
3-Nitroaniline	ND		10	0.48	ug/L		05/27/21 14:39	05/29/21 09:34	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Methylphenol	ND		10	0.36	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Nitroaniline	ND		10	0.25	ug/L		05/27/21 14:39	05/29/21 09:34	1
4-Nitrophenol	ND		10	1.5	ug/L		05/27/21 14:39	05/29/21 09:34	1
Acenaphthene	ND		5.0	0.41	ug/L		05/27/21 14:39	05/29/21 09:34	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/27/21 14:39	05/29/21 09:34	1
Acetophenone	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 09:34	1
Anthracene	ND		5.0	0.28	ug/L		05/27/21 14:39	05/29/21 09:34	1
Atrazine	ND		5.0	0.46	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 09:34	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/27/21 14:39	05/29/21 09:34	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/27/21 14:39	05/29/21 09:34	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 09:34	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 09:34	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/27/21 14:39	05/29/21 09:34	1
Caprolactam	ND		5.0	2.2	ug/L		05/27/21 14:39	05/29/21 09:34	1
Carbazole	ND		5.0	0.30	ug/L		05/27/21 14:39	05/29/21 09:34	1
Chrysene	ND		5.0	0.33	ug/L		05/27/21 14:39	05/29/21 09:34	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/27/21 14:39	05/29/21 09:34	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/27/21 14:39	05/29/21 09:34	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 09:34	1
Dibenzofuran	ND		10	0.51	ug/L		05/27/21 14:39	05/29/21 09:34	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/27/21 14:39	05/29/21 09:34	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 09:34	1

Client Sample ID: DUP
Date Collected: 05/25/21 16:00
Date Received: 05/26/21 08:00

Lab Sample ID: 480-185211-15
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/29/21 09:34	1
Fluorene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/29/21 09:34	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 09:34	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/27/21 14:39	05/29/21 09:34	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 09:34	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/27/21 14:39	05/29/21 09:34	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/29/21 09:34	1
Isophorone	ND		5.0	0.43	ug/L		05/27/21 14:39	05/29/21 09:34	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/27/21 14:39	05/29/21 09:34	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/27/21 14:39	05/29/21 09:34	1
Naphthalene	ND		5.0	0.76	ug/L		05/27/21 14:39	05/29/21 09:34	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/27/21 14:39	05/29/21 09:34	1
Pentachlorophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/29/21 09:34	1
Phenanthrene	ND		5.0	0.44	ug/L		05/27/21 14:39	05/29/21 09:34	1
Phenol	ND		5.0	0.39	ug/L		05/27/21 14:39	05/29/21 09:34	1
Pyrene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/29/21 09:34	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Unknown	*2.0*	*T J*	*ug/L*		*3.33*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*250*	*T J*	*ug/L*		*3.43*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*3.6*	*T J*	*ug/L*		*3.67*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*11*	*T J*	*ug/L*		*3.69*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*2.6*	*T J*	*ug/L*		*4.46*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Butanoic acid	*7.3*	*T J N*	*ug/L*		*4.65*	*107-92-6*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*40*	*T J*	*ug/L*		*5.21*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*2.4*	*T J*	*ug/L*		*6.23*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Column Bleed	*2.0*	*T J*	*ug/L*		*6.25*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Column Bleed	*3.6*	*T J*	*ug/L*		*7.20*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*2.5*	*T J*	*ug/L*		*7.93*		*05/27/21 14:39*	*05/29/21 09:34*	*1*
Unknown	*5.2*	*T J*	*ug/L*		*8.17*		*05/27/21 14:39*	*05/29/21 09:34*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*91*		*46 - 120*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
Phenol-d5 (Surr)	*53*		*22 - 120*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
p-Terphenyl-d14 (Surr)	*81*		*60 - 148*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
2,4,6-Tribromophenol (Surr)	*102*		*41 - 120*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
2-Fluorobiphenyl	*103*		*48 - 120*	*05/27/21 14:39*	*05/29/21 09:34*	*1*
2-Fluorophenol (Surr)	*68*		*35 - 120*	*05/27/21 14:39*	*05/29/21 09:34*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.063	0.012	ug/L		05/27/21 08:24	05/28/21 14:45	1
4,4'-DDE	ND		0.063	0.015	ug/L		05/27/21 08:24	05/28/21 14:45	1
4,4'-DDT	ND		0.063	0.014	ug/L		05/27/21 08:24	05/28/21 14:45	1
Aldrin	ND		0.063	0.010	ug/L		05/27/21 08:24	05/28/21 14:45	1
alpha-BHC	ND		0.063	0.0096	ug/L		05/27/21 08:24	05/28/21 14:45	1
cis-Chlordane	ND		0.063	0.019	ug/L		05/27/21 08:24	05/28/21 14:45	1
beta-BHC	ND		0.063	0.031	ug/L		05/27/21 08:24	05/28/21 14:45	1
delta-BHC	ND		0.063	0.013	ug/L		05/27/21 08:24	05/28/21 14:45	1
Dieldrin	ND		0.063	0.012	ug/L		05/27/21 08:24	05/28/21 14:45	1

Client Sample ID: DUP
Lab Sample ID: 480-185211-15
Date Collected: 05/25/21 16:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		0.063	0.014	ug/L		05/27/21 08:24	05/28/21 14:45	1
Endosulfan II	ND		0.063	0.015	ug/L		05/27/21 08:24	05/28/21 14:45	1
Endosulfan sulfate	ND		0.063	0.020	ug/L		05/27/21 08:24	05/28/21 14:45	1
Endrin	ND		0.063	0.017	ug/L		05/27/21 08:24	05/28/21 14:45	1
Endrin aldehyde	ND		0.063	0.020	ug/L		05/27/21 08:24	05/28/21 14:45	1
Endrin ketone	ND		0.063	0.015	ug/L		05/27/21 08:24	05/28/21 14:45	1
gamma-BHC (Lindane)	ND		0.063	0.010	ug/L		05/27/21 08:24	05/28/21 14:45	1
trans-Chlordane	ND		0.063	0.014	ug/L		05/27/21 08:24	05/28/21 14:45	1
Heptachlor	ND		0.063	0.011	ug/L		05/27/21 08:24	05/28/21 14:45	1
Heptachlor epoxide	ND		0.063	0.0093	ug/L		05/27/21 08:24	05/28/21 14:45	1
Methoxychlor	ND		0.063	0.018	ug/L		05/27/21 08:24	05/28/21 14:45	1
Toxaphene	ND		0.63	0.15	ug/L		05/27/21 08:24	05/28/21 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*20 - 120*	*05/27/21 08:24*	*05/28/21 14:45*	*1*
DCB Decachlorobiphenyl	*41*		*20 - 120*	*05/27/21 08:24*	*05/28/21 14:45*	*1*
Tetrachloro-m-xylene	*69*		*44 - 120*	*05/27/21 08:24*	*05/28/21 14:45*	*1*
Tetrachloro-m-xylene	*66*		*44 - 120*	*05/27/21 08:24*	*05/28/21 14:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:19	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*39 - 121*	*05/28/21 14:33*	*06/01/21 17:19*	*1*
Tetrachloro-m-xylene	*81*		*39 - 121*	*05/28/21 14:33*	*06/01/21 17:19*	*1*
DCB Decachlorobiphenyl	*61*		*19 - 120*	*05/28/21 14:33*	*06/01/21 17:19*	*1*
DCB Decachlorobiphenyl	*63*		*19 - 120*	*05/28/21 14:33*	*06/01/21 17:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.22**		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 01:29	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 01:29	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 01:29	1
Barium	**0.054**		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 01:29	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 01:29	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 01:29	1
Calcium	**134**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:29	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 01:29	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 01:29	1
Copper	**0.0023**	**J**	0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 01:29	1
Iron	**2.5**		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 01:29	1

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: DUP
Lab Sample ID: 480-185211-15
Date Collected: 05/25/21 16:00
Matrix: Water
Date Received: 05/26/21 08:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 01:29	1
Magnesium	**24.2**		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 01:29	1
Manganese	**0.44**		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 01:29	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 01:29	1
Potassium	**2.5**		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 01:29	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 01:29	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 01:29	1
Sodium	**166**		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 01:29	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 01:29	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 01:29	1
Zinc	**0.0041**	**J**	0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 01:29	1

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-185211-2	FBR-MW-16D	94	95	83	88
480-185211-3	FBR-MW-11	93	90	82	85
480-185211-4	FBR-MW-31	96	95	84	86
480-185211-6	FBR-MW-30	96	95	85	85
480-185211-11	FBR-MW-19D	89	91	82	81
480-185211-12	FBR-MW-33	94	90	84	84
480-185211-14	FBR-MW-20	89	88	82	85
LCS 480-583546/5	Lab Control Sample	99	90	87	86
MB 480-583546/7	Method Blank	96	87	83	86

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	PHL	TPHd14	TBP	FBP	2FP
Lab Sample ID	Client Sample ID	(46-120)	(22-120)	(60-148)	(41-120)	(48-120)	(35-120)
480-185211-5	FBR-MW-23	81	43	73	94	88	59
480-185211-8	FBR-MW-18	85	48	78	97	96	63
480-185211-9	FBR-MW-15	84	50	77	86	95	61
480-185211-9 MS	FBR-MW-15	98	59	80	98	96	68
480-185211-9 MSD	FBR-MW-15	88	52	74	96	91	65
480-185211-14	FBR-MW-20	85	47	55 S1-	92	87	65
480-185211-15	DUP	91	53	81	102	103	68
LCS 480-583028/2-A	Lab Control Sample	93	52	103	103	95	62
MB 480-583028/1-A	Method Blank	79	45	101	85	87	58

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-185211-1	FBR-MW-16	72	63	67	60
480-185211-3	FBR-MW-11	58	53	76	69
480-185211-9	FBR-MW-15	64	58	79	67
480-185211-9 MS	FBR-MW-15	58	52	79	69
480-185211-9 MSD	FBR-MW-15	68	63	72	62

Surrogate Summary

Client: New York State D.E.C. Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(20-120)	(20-120)	(44-120)	(44-120)
480-185211-10	FBR-MW-15D	74	65	88	75
480-185211-13	FBR-MW-32	63	59	79	66
480-185211-14	FBR-MW-20	0 S1-	0 S1-	64	28 S1-
480-185211-15	DUP	47	41	69	66
LCS 480-582893/2-A	Lab Control Sample	47	44	76	70
MB 480-582893/1-A	Method Blank	42	39	90	79

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(39-121)	(39-121)	(19-120)	(19-120)
480-185211-1	FBR-MW-16	81	83	52	52
480-185211-9	FBR-MW-15	75	79	41	41
480-185211-9 MS	FBR-MW-15	75	77	46	46
480-185211-9 MSD	FBR-MW-15	69	67	45	43
480-185211-10	FBR-MW-15D	77	78	58	59
480-185211-14	FBR-MW-20	46	46	23	22
480-185211-15	DUP	81	81	61	63
LCS 480-583251/2-A	Lab Control Sample	65	68	44	44
MB 480-583251/1-A	Method Blank	71	74	56	54

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Job ID: 480-185211-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DXE (15-110)
480-185211-12	FBR-MW-33	93
480-185211-14	FBR-MW-20	89
LCS 480-582776/2-A	Lab Control Sample	96
MB 480-582776/1-A	Method Blank	96

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-185211-1	FBR-MW-16	72	57	78	83	88	99	97	99
480-185211-3	FBR-MW-11	69	60	81	87	90	97	99	107
480-185211-6	FBR-MW-30	83	76	94	94	94	102	99	102
480-185211-12	FBR-MW-33	56	44	56	61	65	67	69	72
480-185211-14	FBR-MW-20	75	12 *5-	60	82	87	97	96	110
LCS 200-167518/2-A	Lab Control Sample	65	101	102	101	97	98	101	102
MB 200-167518/1-A	Method Blank	66	95	95	98	91	93	96	96

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-185211-1	FBR-MW-16	88	86	81	83	86	85	96	102
480-185211-3	FBR-MW-11	100	95	89	82	89	95	108	104
480-185211-6	FBR-MW-30	100	92	83	86	89	91	112	108
480-185211-12	FBR-MW-33	70	62	63	58	56	63	73	81
480-185211-14	FBR-MW-20	105	79	34 *5-	88	91	82	133	140
LCS 200-167518/2-A	Lab Control Sample	92	81	67	96	90	91	108	108
MB 200-167518/1-A	Method Blank	84	71	66	90	84	89	93	83

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-185211-1	FBR-MW-16	124	116
480-185211-3	FBR-MW-11	116	128
480-185211-6	FBR-MW-30	104	117
480-185211-12	FBR-MW-33	64	73
480-185211-14	FBR-MW-20	140	153 *5+
LCS 200-167518/2-A	Lab Control Sample	96	108
MB 200-167518/1-A	Method Blank	84	99

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-583546/7
Matrix: Water
Analysis Batch: 583546

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/02/21 11:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/02/21 11:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/02/21 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/02/21 11:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/02/21 11:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/02/21 11:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/02/21 11:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/02/21 11:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/02/21 11:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/02/21 11:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/02/21 11:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/02/21 11:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/02/21 11:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/02/21 11:07	1
2-Hexanone	ND		5.0	1.2	ug/L			06/02/21 11:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/02/21 11:07	1
Acetone	ND		10	3.0	ug/L			06/02/21 11:07	1
Benzene	ND		1.0	0.41	ug/L			06/02/21 11:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/02/21 11:07	1
Bromoform	ND		1.0	0.26	ug/L			06/02/21 11:07	1
Bromomethane	ND		1.0	0.69	ug/L			06/02/21 11:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/02/21 11:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/02/21 11:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/02/21 11:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/02/21 11:07	1
Chloroethane	ND		1.0	0.32	ug/L			06/02/21 11:07	1
Chloroform	ND		1.0	0.34	ug/L			06/02/21 11:07	1
Chloromethane	ND		1.0	0.35	ug/L			06/02/21 11:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/02/21 11:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/02/21 11:07	1
Cyclohexane	ND		1.0	0.18	ug/L			06/02/21 11:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/02/21 11:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/02/21 11:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/02/21 11:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/02/21 11:07	1
Methyl acetate	ND		2.5	1.3	ug/L			06/02/21 11:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/02/21 11:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/02/21 11:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/02/21 11:07	1
Styrene	ND		1.0	0.73	ug/L			06/02/21 11:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/02/21 11:07	1
Toluene	ND		1.0	0.51	ug/L			06/02/21 11:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/02/21 11:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/02/21 11:07	1
Trichloroethene	ND		1.0	0.46	ug/L			06/02/21 11:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/02/21 11:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/02/21 11:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/02/21 11:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-583546/7
Matrix: Water
Analysis Batch: 583546

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					06/02/21 11:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		06/02/21 11:07	1
1,2-Dichloroethane-d4 (Surr)	87		77 - 120		06/02/21 11:07	1
4-Bromofluorobenzene (Surr)	83		73 - 120		06/02/21 11:07	1
Dibromofluoromethane (Surr)	86		75 - 123		06/02/21 11:07	1

Lab Sample ID: LCS 480-583546/5
Matrix: Water
Analysis Batch: 583546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.2		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	61 - 148
1,1-Dichloroethane	25.0	25.1		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		93	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.3		ug/L		85	56 - 134
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	27.6		ug/L		110	76 - 120
1,3-Dichlorobenzene	25.0	27.1		ug/L		108	77 - 120
1,4-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 120
2-Butanone (MEK)	125	118		ug/L		95	57 - 140
2-Hexanone	125	123		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	71 - 125
Acetone	125	102		ug/L		81	56 - 142
Benzene	25.0	26.9		ug/L		107	71 - 124
Bromodichloromethane	25.0	27.9		ug/L		112	80 - 122
Bromoform	25.0	24.3		ug/L		97	61 - 132
Bromomethane	25.0	30.7		ug/L		123	55 - 144
Carbon disulfide	25.0	28.2		ug/L		113	59 - 134
Carbon tetrachloride	25.0	23.3		ug/L		93	72 - 134
Chlorobenzene	25.0	26.8		ug/L		107	80 - 120
Dibromochloromethane	25.0	28.0		ug/L		112	75 - 125
Chloroethane	25.0	24.9		ug/L		100	69 - 136
Chloroform	25.0	24.4		ug/L		98	73 - 127
Chloromethane	25.0	24.4		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	29.2		ug/L		117	74 - 124
Cyclohexane	25.0	26.2		ug/L		105	59 - 135
Dichlorodifluoromethane	25.0	24.7		ug/L		99	59 - 135
Ethylbenzene	25.0	27.3		ug/L		109	77 - 123
1,2-Dibromoethane	25.0	25.9		ug/L		104	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-583546/5
Matrix: Water
Analysis Batch: 583546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	29.6		ug/L		118	77 - 122
Methyl acetate	50.0	42.0		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	22.9		ug/L		92	77 - 120
Methylcyclohexane	25.0	26.5		ug/L		106	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	28.6		ug/L		114	80 - 120
Tetrachloroethene	25.0	26.3		ug/L		105	74 - 122
Toluene	25.0	28.4		ug/L		114	80 - 122
trans-1,2-Dichloroethene	25.0	24.6		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	31.8	*+	ug/L		127	80 - 120
Trichloroethene	25.0	26.3		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	26.9		ug/L		108	62 - 150
Vinyl chloride	25.0	26.4		ug/L		106	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Dibromofluoromethane (Surr)	*86*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-583028/1-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		5.0	0.65	ug/L		05/27/21 14:39	05/28/21 20:51	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		05/27/21 14:39	05/28/21 20:51	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Chlorophenol	ND		5.0	0.53	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Methylphenol	ND		5.0	0.40	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Nitroaniline	ND		10	0.42	ug/L		05/27/21 14:39	05/28/21 20:51	1
2-Nitrophenol	ND		5.0	0.48	ug/L		05/27/21 14:39	05/28/21 20:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		05/27/21 14:39	05/28/21 20:51	1
3-Nitroaniline	ND		10	0.48	ug/L		05/27/21 14:39	05/28/21 20:51	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Chloroaniline	ND		5.0	0.59	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		05/27/21 14:39	05/28/21 20:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-583028/1-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		10	0.36	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Nitroaniline	ND		10	0.25	ug/L		05/27/21 14:39	05/28/21 20:51	1
4-Nitrophenol	ND		10	1.5	ug/L		05/27/21 14:39	05/28/21 20:51	1
Acenaphthene	ND		5.0	0.41	ug/L		05/27/21 14:39	05/28/21 20:51	1
Acenaphthylene	ND		5.0	0.38	ug/L		05/27/21 14:39	05/28/21 20:51	1
Acetophenone	ND		5.0	0.54	ug/L		05/27/21 14:39	05/28/21 20:51	1
Anthracene	ND		5.0	0.28	ug/L		05/27/21 14:39	05/28/21 20:51	1
Atrazine	ND		5.0	0.46	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzaldehyde	ND		5.0	0.27	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		05/27/21 14:39	05/28/21 20:51	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		05/27/21 14:39	05/28/21 20:51	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		05/27/21 14:39	05/28/21 20:51	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		05/27/21 14:39	05/28/21 20:51	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		05/27/21 14:39	05/28/21 20:51	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		05/27/21 14:39	05/28/21 20:51	1
Caprolactam	ND		5.0	2.2	ug/L		05/27/21 14:39	05/28/21 20:51	1
Carbazole	ND		5.0	0.30	ug/L		05/27/21 14:39	05/28/21 20:51	1
Chrysene	ND		5.0	0.33	ug/L		05/27/21 14:39	05/28/21 20:51	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		05/27/21 14:39	05/28/21 20:51	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		05/27/21 14:39	05/28/21 20:51	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		05/27/21 14:39	05/28/21 20:51	1
Dibenzofuran	ND		10	0.51	ug/L		05/27/21 14:39	05/28/21 20:51	1
Diethyl phthalate	ND		5.0	0.22	ug/L		05/27/21 14:39	05/28/21 20:51	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		05/27/21 14:39	05/28/21 20:51	1
Fluoranthene	ND		5.0	0.40	ug/L		05/27/21 14:39	05/28/21 20:51	1
Fluorene	ND		5.0	0.36	ug/L		05/27/21 14:39	05/28/21 20:51	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		05/27/21 14:39	05/28/21 20:51	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		05/27/21 14:39	05/28/21 20:51	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		05/27/21 14:39	05/28/21 20:51	1
Hexachloroethane	ND		5.0	0.59	ug/L		05/27/21 14:39	05/28/21 20:51	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		05/27/21 14:39	05/28/21 20:51	1
Isophorone	ND		5.0	0.43	ug/L		05/27/21 14:39	05/28/21 20:51	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		05/27/21 14:39	05/28/21 20:51	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		05/27/21 14:39	05/28/21 20:51	1
Naphthalene	ND		5.0	0.76	ug/L		05/27/21 14:39	05/28/21 20:51	1
Nitrobenzene	ND		5.0	0.29	ug/L		05/27/21 14:39	05/28/21 20:51	1
Pentachlorophenol	ND		10	2.2	ug/L		05/27/21 14:39	05/28/21 20:51	1
Phenanthrene	ND		5.0	0.44	ug/L		05/27/21 14:39	05/28/21 20:51	1
Phenol	ND		5.0	0.39	ug/L		05/27/21 14:39	05/28/21 20:51	1
Pyrene	ND		5.0	0.34	ug/L		05/27/21 14:39	05/28/21 20:51	1

Tentatively Identified Compound	*Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Cyclohexane	*11.7*	*T J N*	*ug/L*		*3.19*	*110-82-7*	*05/27/21 14:39*	*05/28/21 20:51*	*1*
Unknown	*2.82*	*T J*	*ug/L*		*3.33*		*05/27/21 14:39*	*05/28/21 20:51*	*1*
Unknown	*247*	*T J*	*ug/L*		*3.43*		*05/27/21 14:39*	*05/28/21 20:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-583028/1-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583028

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Heptane	3.46	T J N	ug/L		3.66	142-82-5	05/27/21 14:39	05/28/21 20:51	1
Unknown	2.49	T J	ug/L		4.45		05/27/21 14:39	05/28/21 20:51	1
Unknown	36.7	T J	ug/L		5.21		05/27/21 14:39	05/28/21 20:51	1
Column Bleed	1.69	T J	ug/L		6.25		05/27/21 14:39	05/28/21 20:51	1
Column Bleed	2.99	T J	ug/L		7.20		05/27/21 14:39	05/28/21 20:51	1
Unknown	7.13	T J	ug/L		8.16		05/27/21 14:39	05/28/21 20:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	79		46 - 120	05/27/21 14:39	05/28/21 20:51	1
Phenol-d5 (Surr)	45		22 - 120	05/27/21 14:39	05/28/21 20:51	1
p-Terphenyl-d14 (Surr)	101		60 - 148	05/27/21 14:39	05/28/21 20:51	1
2,4,6-Tribromophenol (Surr)	85		41 - 120	05/27/21 14:39	05/28/21 20:51	1
2-Fluorobiphenyl	87		48 - 120	05/27/21 14:39	05/28/21 20:51	1
2-Fluorophenol (Surr)	58		35 - 120	05/27/21 14:39	05/28/21 20:51	1

Lab Sample ID: LCS 480-583028/2-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	32.0	30.3		ug/L		95	59 - 120
bis (2-chloroisopropyl) ether	32.0	28.1		ug/L		88	21 - 136
2,4,5-Trichlorophenol	32.0	33.0		ug/L		103	65 - 126
2,4,6-Trichlorophenol	32.0	32.1		ug/L		100	64 - 120
2,4-Dichlorophenol	32.0	30.4		ug/L		95	63 - 120
2,4-Dimethylphenol	32.0	31.3		ug/L		98	47 - 120
2,4-Dinitrophenol	64.0	64.3		ug/L		100	31 - 137
2,4-Dinitrotoluene	32.0	34.5		ug/L		108	69 - 120
2,6-Dinitrotoluene	32.0	35.0		ug/L		109	68 - 120
2-Chloronaphthalene	32.0	29.4		ug/L		92	58 - 120
2-Chlorophenol	32.0	27.9		ug/L		87	48 - 120
2-Methylphenol	32.0	28.2		ug/L		88	39 - 120
2-Methylnaphthalene	32.0	29.1		ug/L		91	59 - 120
2-Nitroaniline	32.0	35.8		ug/L		112	54 - 127
2-Nitrophenol	32.0	32.0		ug/L		100	52 - 125
3,3'-Dichlorobenzidine	64.0	64.4		ug/L		101	49 - 135
3-Nitroaniline	32.0	27.8		ug/L		87	51 - 120
4,6-Dinitro-2-methylphenol	64.0	66.0		ug/L		103	46 - 136
4-Bromophenyl phenyl ether	32.0	33.2		ug/L		104	65 - 120
4-Chloro-3-methylphenol	32.0	32.2		ug/L		101	61 - 123
4-Chloroaniline	32.0	24.1		ug/L		75	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.4		ug/L		101	62 - 120
4-Methylphenol	32.0	26.4		ug/L		83	29 - 131
4-Nitroaniline	32.0	30.9		ug/L		97	65 - 120
4-Nitrophenol	64.0	59.2		ug/L		92	45 - 120
Acenaphthene	32.0	30.7		ug/L		96	60 - 120
Acenaphthylene	32.0	30.8		ug/L		96	63 - 120
Acetophenone	32.0	29.8		ug/L		93	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-583028/2-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	32.0	32.9		ug/L		103	67 - 120
Atrazine	64.0	72.9		ug/L		114	71 - 130
Benzaldehyde	64.0	58.7		ug/L		92	10 - 140
Benzo[a]anthracene	32.0	33.7		ug/L		105	70 - 121
Benzo[a]pyrene	32.0	34.3		ug/L		107	60 - 123
Benzo[b]fluoranthene	32.0	33.8		ug/L		106	66 - 126
Benzo[g,h,i]perylene	32.0	35.5		ug/L		111	66 - 150
Benzo[k]fluoranthene	32.0	33.7		ug/L		105	65 - 124
Bis(2-chloroethoxy)methane	32.0	29.7		ug/L		93	50 - 128
Bis(2-chloroethyl)ether	32.0	28.4		ug/L		89	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	35.9		ug/L		112	63 - 139
Butyl benzyl phthalate	32.0	35.0		ug/L		109	70 - 129
Caprolactam	64.0	23.2		ug/L		36	22 - 120
Carbazole	32.0	35.0		ug/L		109	66 - 123
Chrysene	32.0	34.1		ug/L		107	69 - 120
Dibenz(a,h)anthracene	32.0	35.9		ug/L		112	65 - 135
Di-n-butyl phthalate	32.0	34.6		ug/L		108	69 - 131
Di-n-octyl phthalate	32.0	35.4		ug/L		111	63 - 140
Dibenzofuran	32.0	31.5		ug/L		98	66 - 120
Diethyl phthalate	32.0	34.0		ug/L		106	59 - 127
Dimethyl phthalate	32.0	34.2		ug/L		107	68 - 120
Fluoranthene	32.0	34.0		ug/L		106	69 - 126
Fluorene	32.0	32.0		ug/L		100	66 - 120
Hexachlorobenzene	32.0	32.7		ug/L		102	61 - 120
Hexachlorobutadiene	32.0	27.8		ug/L		87	35 - 120
Hexachlorocyclopentadiene	32.0	24.0		ug/L		75	31 - 120
Hexachloroethane	32.0	26.8		ug/L		84	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	36.0		ug/L		112	69 - 146
Isophorone	32.0	31.3		ug/L		98	55 - 120
N-Nitrosodi-n-propylamine	32.0	31.0		ug/L		97	32 - 140
N-Nitrosodiphenylamine	32.0	32.6		ug/L		102	61 - 120
Naphthalene	32.0	28.3		ug/L		89	57 - 120
Nitrobenzene	32.0	29.7		ug/L		93	53 - 123
Pentachlorophenol	64.0	56.5		ug/L		88	29 - 136
Phenanthrene	32.0	34.2		ug/L		107	68 - 120
Phenol	32.0	17.2		ug/L		54	17 - 120
Pyrene	32.0	34.0		ug/L		106	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*
Phenol-d5 (Surr)	*52*		*22 - 120*
p-Terphenyl-d14 (Surr)	*103*		*60 - 148*
2,4,6-Tribromophenol (Surr)	*103*		*41 - 120*
2-Fluorobiphenyl	*95*		*48 - 120*
2-Fluorophenol (Surr)	*62*		*35 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583187

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Biphenyl	ND		32.0	30.2		ug/L		94	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	29.5		ug/L		92	28 - 121
2,4,5-Trichlorophenol	ND		32.0	32.5		ug/L		102	65 - 126
2,4,6-Trichlorophenol	ND		32.0	29.8		ug/L		93	64 - 120
2,4-Dichlorophenol	ND		32.0	30.6		ug/L		96	48 - 132
2,4-Dimethylphenol	ND		32.0	31.7		ug/L		99	39 - 130
2,4-Dinitrophenol	ND		64.0	45.6	J	ug/L		71	21 - 150
2,4-Dinitrotoluene	ND		32.0	33.2		ug/L		104	54 - 138
2,6-Dinitrotoluene	ND		32.0	34.4		ug/L		108	17 - 150
2-Chloronaphthalene	ND		32.0	30.5		ug/L		95	52 - 124
2-Chlorophenol	ND		32.0	29.0		ug/L		91	48 - 120
2-Methylphenol	ND		32.0	30.5		ug/L		95	46 - 120
2-Methylnaphthalene	ND		32.0	31.1		ug/L		97	34 - 140
2-Nitroaniline	ND		32.0	34.9	J	ug/L		109	44 - 136
2-Nitrophenol	ND		32.0	31.5		ug/L		98	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	61.6		ug/L		96	10 - 150
3-Nitroaniline	ND		32.0	29.6	J	ug/L		92	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	57.0		ug/L		89	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	33.7		ug/L		105	63 - 126
4-Chloro-3-methylphenol	ND		32.0	32.2		ug/L		101	64 - 127
4-Chloroaniline	ND		32.0	28.2		ug/L		88	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	32.7		ug/L		102	61 - 120
4-Methylphenol	ND		32.0	28.7	J	ug/L		90	36 - 120
4-Nitroaniline	ND		32.0	32.7	J	ug/L		102	32 - 150
4-Nitrophenol	ND		64.0	58.1		ug/L		91	23 - 132
Acenaphthene	ND		32.0	31.1		ug/L		97	48 - 120
Acenaphthylene	ND		32.0	31.6		ug/L		99	63 - 120
Acetophenone	ND		32.0	30.4		ug/L		95	53 - 120
Anthracene	ND		32.0	34.0		ug/L		106	65 - 122
Atrazine	ND		64.0	72.7		ug/L		114	50 - 150
Benzaldehyde	ND		64.0	61.5		ug/L		96	10 - 150
Benzo[a]anthracene	ND		32.0	30.8		ug/L		96	43 - 124
Benzo[a]pyrene	ND		32.0	31.9		ug/L		100	23 - 125
Benzo[b]fluoranthene	ND		32.0	31.6		ug/L		99	27 - 127
Benzo[g,h,i]perylene	ND		32.0	31.7		ug/L		99	16 - 147
Benzo[k]fluoranthene	ND		32.0	31.4		ug/L		98	20 - 124
Bis(2-chloroethoxy)methane	ND		32.0	30.3		ug/L		95	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	29.7		ug/L		93	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	31.5		ug/L		99	16 - 150
Butyl benzyl phthalate	ND		32.0	33.0		ug/L		103	51 - 140
Caprolactam	ND		64.0	24.2	J	ug/L		38	10 - 120
Carbazole	ND		32.0	37.1		ug/L		116	16 - 148
Chrysene	ND		32.0	31.8		ug/L		99	44 - 122
Dibenz(a,h)anthracene	ND		32.0	32.1		ug/L		100	16 - 139
Di-n-butyl phthalate	ND		32.0	35.1		ug/L		110	65 - 129
Di-n-octyl phthalate	ND		32.0	31.1		ug/L		97	16 - 150
Dibenzofuran	ND		32.0	32.1	J	ug/L		100	60 - 120
Diethyl phthalate	ND		32.0	33.8		ug/L		105	53 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583187

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	ND		32.0	33.6		ug/L		105	59 - 123
Fluoranthene	ND		32.0	34.5		ug/L		108	63 - 129
Fluorene	ND		32.0	32.6		ug/L		102	62 - 120
Hexachlorobenzene	ND		32.0	31.3		ug/L		98	57 - 121
Hexachlorobutadiene	ND		32.0	29.2		ug/L		91	37 - 120
Hexachlorocyclopentadiene	ND		32.0	20.0	J	ug/L		63	21 - 120
Hexachloroethane	ND		32.0	26.5		ug/L		83	16 - 130
Indeno[1,2,3-cd]pyrene	ND		32.0	32.4		ug/L		101	16 - 140
Isophorone	ND		32.0	32.2		ug/L		100	48 - 133
N-Nitrosodi-n-propylamine	ND		32.0	30.1		ug/L		94	49 - 120
N-Nitrosodiphenylamine	ND		32.0	33.3		ug/L		104	39 - 138
Naphthalene	ND		32.0	29.6		ug/L		92	45 - 120
Nitrobenzene	ND		32.0	30.6		ug/L		96	45 - 123
Pentachlorophenol	ND		64.0	49.2	J	ug/L		77	23 - 149
Phenanthrene	ND		32.0	33.4		ug/L		104	65 - 122
Phenol	ND		32.0	19.9	J	ug/L		62	16 - 120
Pyrene	ND		32.0	31.0		ug/L		97	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*
Phenol-d5 (Surr)	*59*		*22 - 120*
p-Terphenyl-d14 (Surr)	*80*		*60 - 148*
2,4,6-Tribromophenol (Surr)	*98*		*41 - 120*
2-Fluorobiphenyl	*96*		*48 - 120*
2-Fluorophenol (Surr)	*68*		*35 - 120*

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583187

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Biphenyl	ND		32.0	29.6		ug/L		93	57 - 120	2	20
bis (2-chloroisopropyl) ether	ND		32.0	27.3		ug/L		85	28 - 121	8	24
2,4,5-Trichlorophenol	ND		32.0	30.7		ug/L		96	65 - 126	6	18
2,4,6-Trichlorophenol	ND		32.0	28.6		ug/L		89	64 - 120	4	19
2,4-Dichlorophenol	ND		32.0	29.0		ug/L		91	48 - 132	5	19
2,4-Dimethylphenol	ND		32.0	28.9		ug/L		90	39 - 130	9	42
2,4-Dinitrophenol	ND		64.0	45.1	J	ug/L		70	21 - 150	1	22
2,4-Dinitrotoluene	ND		32.0	33.0		ug/L		103	54 - 138	0	20
2,6-Dinitrotoluene	ND		32.0	33.9		ug/L		106	17 - 150	2	15
2-Chloronaphthalene	ND		32.0	28.5		ug/L		89	52 - 124	7	21
2-Chlorophenol	ND		32.0	26.8		ug/L		84	48 - 120	8	25
2-Methylphenol	ND		32.0	27.8		ug/L		87	46 - 120	9	27
2-Methylnaphthalene	ND		32.0	28.0		ug/L		87	34 - 140	10	21
2-Nitroaniline	ND		32.0	32.9	J	ug/L		103	44 - 136	6	15
2-Nitrophenol	ND		32.0	29.9		ug/L		94	38 - 141	5	18
3,3'-Dichlorobenzidine	ND		64.0	52.5		ug/L		82	10 - 150	16	25
3-Nitroaniline	ND		32.0	27.7	J	ug/L		87	32 - 150	7	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185211-9 MSD
Client Sample ID: FBR-MW-15
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 583187
Prep Batch: 583028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	ND		64.0	53.0		ug/L		83	38 - 150	7	15
4-Bromophenyl phenyl ether	ND		32.0	30.1		ug/L		94	63 - 126	12	15
4-Chloro-3-methylphenol	ND		32.0	30.1		ug/L		94	64 - 127	7	27
4-Chloroaniline	ND		32.0	23.3	J	ug/L		73	16 - 124	19	22
4-Chlorophenyl phenyl ether	ND		32.0	30.6		ug/L		96	61 - 120	7	16
4-Methylphenol	ND		32.0	26.4	J	ug/L		83	36 - 120	8	24
4-Nitroaniline	ND		32.0	30.7	J	ug/L		96	32 - 150	6	24
4-Nitrophenol	ND		64.0	56.9		ug/L		89	23 - 132	2	48
Acenaphthene	ND		32.0	29.9		ug/L		93	48 - 120	4	24
Acenaphthylene	ND		32.0	29.4		ug/L		92	63 - 120	7	18
Acetophenone	ND		32.0	28.6		ug/L		89	53 - 120	6	20
Anthracene	ND		32.0	29.4		ug/L		92	65 - 122	14	15
Atrazine	ND		64.0	70.4		ug/L		110	50 - 150	3	20
Benzaldehyde	ND		64.0	57.5		ug/L		90	10 - 150	7	20
Benzo[a]anthracene	ND		32.0	29.0		ug/L		91	43 - 124	6	15
Benzo[a]pyrene	ND		32.0	29.3		ug/L		91	23 - 125	9	15
Benzo[b]fluoranthene	ND		32.0	30.0		ug/L		94	27 - 127	5	15
Benzo[g,h,i]perylene	ND		32.0	29.5		ug/L		92	16 - 147	7	15
Benzo[k]fluoranthene	ND		32.0	31.0		ug/L		97	20 - 124	1	22
Bis(2-chloroethoxy)methane	ND		32.0	28.3		ug/L		88	44 - 128	7	17
Bis(2-chloroethyl)ether	ND		32.0	27.3		ug/L		85	45 - 120	8	21
Bis(2-ethylhexyl) phthalate	ND		32.0	29.4		ug/L		92	16 - 150	7	15
Butyl benzyl phthalate	ND		32.0	30.8		ug/L		96	51 - 140	7	16
Caprolactam	ND		64.0	21.9	J	ug/L		34	10 - 120	10	20
Carbazole	ND		32.0	34.9		ug/L		109	16 - 148	6	20
Chrysene	ND		32.0	29.7		ug/L		93	44 - 122	7	15
Dibenz(a,h)anthracene	ND		32.0	29.5		ug/L		92	16 - 139	8	15
Di-n-butyl phthalate	ND		32.0	32.1		ug/L		100	65 - 129	9	15
Di-n-octyl phthalate	ND		32.0	29.3		ug/L		92	16 - 150	6	16
Dibenzofuran	ND		32.0	30.0	J	ug/L		94	60 - 120	7	15
Diethyl phthalate	ND		32.0	31.4		ug/L		98	53 - 133	7	15
Dimethyl phthalate	ND		32.0	32.3		ug/L		101	59 - 123	4	15
Fluoranthene	ND		32.0	31.7		ug/L		99	63 - 129	9	15
Fluorene	ND		32.0	29.9		ug/L		94	62 - 120	8	15
Hexachlorobenzene	ND		32.0	31.0		ug/L		97	57 - 121	1	15
Hexachlorobutadiene	ND		32.0	24.9	J	ug/L		78	37 - 120	16	44
Hexachlorocyclopentadiene	ND		32.0	18.5	J	ug/L		58	21 - 120	8	49
Hexachloroethane	ND		32.0	25.3		ug/L		79	16 - 130	5	46
Indeno[1,2,3-cd]pyrene	ND		32.0	29.8		ug/L		93	16 - 140	8	15
Isophorone	ND		32.0	29.5		ug/L		92	48 - 133	9	17
N-Nitrosodi-n-propylamine	ND		32.0	28.7		ug/L		90	49 - 120	5	31
N-Nitrosodiphenylamine	ND		32.0	30.5		ug/L		95	39 - 138	9	15
Naphthalene	ND		32.0	26.9		ug/L		84	45 - 120	9	29
Nitrobenzene	ND		32.0	28.3		ug/L		88	45 - 123	8	24
Pentachlorophenol	ND		64.0	46.1	J	ug/L		72	23 - 149	6	37
Phenanthrene	ND		32.0	31.0		ug/L		97	65 - 122	7	15
Phenol	ND		32.0	17.7	J	ug/L		55	16 - 120	12	34
Pyrene	ND		32.0	30.2		ug/L		94	58 - 128	3	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583187

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583028

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	88		46 - 120
Phenol-d5 (Surr)	52		22 - 120
p-Terphenyl-d14 (Surr)	74		60 - 148
2,4,6-Tribromophenol (Surr)	96		41 - 120
2-Fluorobiphenyl	91		48 - 120
2-Fluorophenol (Surr)	65		35 - 120

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-582776/1-A
Matrix: Water
Analysis Batch: 583275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582776

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		05/26/21 15:19	05/28/21 16:52	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	96		15 - 110	05/26/21 15:19	05/28/21 16:52	1

Lab Sample ID: LCS 480-582776/2-A
Matrix: Water
Analysis Batch: 583275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582776

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	0.414		ug/L		41	40 - 140		

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
1,4-Dioxane-d8	96		15 - 110

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-582893/1-A
Matrix: Water
Analysis Batch: 583115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		05/27/21 08:24	05/28/21 09:11	1
4,4'-DDE	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 09:11	1
4,4'-DDT	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 09:11	1
Aldrin	ND		0.050	0.0081	ug/L		05/27/21 08:24	05/28/21 09:11	1
alpha-BHC	ND		0.050	0.0077	ug/L		05/27/21 08:24	05/28/21 09:11	1
cis-Chlordane	ND		0.050	0.015	ug/L		05/27/21 08:24	05/28/21 09:11	1
beta-BHC	ND		0.050	0.025	ug/L		05/27/21 08:24	05/28/21 09:11	1
delta-BHC	ND		0.050	0.010	ug/L		05/27/21 08:24	05/28/21 09:11	1
Dieldrin	ND		0.050	0.0098	ug/L		05/27/21 08:24	05/28/21 09:11	1
Endosulfan I	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 09:11	1
Endosulfan II	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 09:11	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		05/27/21 08:24	05/28/21 09:11	1
Endrin	ND		0.050	0.014	ug/L		05/27/21 08:24	05/28/21 09:11	1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-582893/1-A
Matrix: Water
Analysis Batch: 583115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin aldehyde	0.0192	J	0.050	0.016	ug/L		05/27/21 08:24	05/28/21 09:11	1
Endrin ketone	ND		0.050	0.012	ug/L		05/27/21 08:24	05/28/21 09:11	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		05/27/21 08:24	05/28/21 09:11	1
trans-Chlordane	ND		0.050	0.011	ug/L		05/27/21 08:24	05/28/21 09:11	1
Heptachlor	ND		0.050	0.0085	ug/L		05/27/21 08:24	05/28/21 09:11	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		05/27/21 08:24	05/28/21 09:11	1
Methoxychlor	ND		0.050	0.014	ug/L		05/27/21 08:24	05/28/21 09:11	1
Toxaphene	ND		0.50	0.12	ug/L		05/27/21 08:24	05/28/21 09:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*20 - 120*	*05/27/21 08:24*	*05/28/21 09:11*	*1*
DCB Decachlorobiphenyl	*39*		*20 - 120*	*05/27/21 08:24*	*05/28/21 09:11*	*1*
Tetrachloro-m-xylene	*90*		*44 - 120*	*05/27/21 08:24*	*05/28/21 09:11*	*1*
Tetrachloro-m-xylene	*79*		*44 - 120*	*05/27/21 08:24*	*05/28/21 09:11*	*1*

Lab Sample ID: LCS 480-582893/2-A
Matrix: Water
Analysis Batch: 583115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.403		ug/L		101	64 - 129
4,4'-DDE	0.400	0.303		ug/L		76	50 - 120
4,4'-DDT	0.400	0.414		ug/L		103	59 - 120
Aldrin	0.400	0.299		ug/L		75	40 - 125
alpha-BHC	0.400	0.353		ug/L		88	52 - 125
cis-Chlordane	0.400	0.339		ug/L		85	52 - 120
beta-BHC	0.400	0.429		ug/L		107	51 - 120
delta-BHC	0.400	0.398		ug/L		100	51 - 120
Dieldrin	0.400	0.367		ug/L		92	66 - 128
Endosulfan I	0.400	0.340		ug/L		85	57 - 120
Endosulfan II	0.400	0.413		ug/L		103	66 - 131
Endosulfan sulfate	0.400	0.518		ug/L		130	66 - 136
Endrin	0.400	0.401		ug/L		100	65 - 135
Endrin aldehyde	0.400	0.346		ug/L		87	61 - 134
Endrin ketone	0.400	0.493		ug/L		123	71 - 133
gamma-BHC (Lindane)	0.400	0.401		ug/L		100	56 - 120
trans-Chlordane	0.400	0.356		ug/L		89	54 - 120
Heptachlor	0.400	0.395		ug/L		99	58 - 120
Heptachlor epoxide	0.400	0.377		ug/L		94	65 - 125
Methoxychlor	0.400	0.438		ug/L		110	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*47*		*20 - 120*
DCB Decachlorobiphenyl	*44*		*20 - 120*
Tetrachloro-m-xylene	*76*		*44 - 120*
Tetrachloro-m-xylene	*70*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583115

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 582893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.500	0.438		ug/L		88	57 - 130
4,4'-DDE	ND		0.500	0.307		ug/L		61	39 - 120
4,4'-DDT	ND		0.500	0.394		ug/L		79	37 - 130
Aldrin	ND		0.500	0.356		ug/L		71	39 - 125
alpha-BHC	ND		0.500	0.420		ug/L		84	48 - 120
cis-Chlordane	ND		0.500	0.360		ug/L		72	44 - 120
beta-BHC	ND		0.500	0.515		ug/L		103	49 - 120
delta-BHC	ND		0.500	0.509		ug/L		102	50 - 120
Dieldrin	ND		0.500	0.440		ug/L		88	56 - 130
Endosulfan I	ND		0.500	0.410		ug/L		82	40 - 126
Endosulfan II	ND		0.500	0.476		ug/L		95	59 - 140
Endosulfan sulfate	ND		0.500	0.599		ug/L		120	60 - 134
Endrin	ND		0.500	0.469		ug/L		94	54 - 135
Endrin aldehyde	ND	F2 F1	0.500	1.01	F1	ug/L		203	50 - 142
Endrin ketone	ND		0.500	0.587		ug/L		117	57 - 138
gamma-BHC (Lindane)	ND		0.500	0.472		ug/L		94	50 - 120
trans-Chlordane	ND		0.500	0.376		ug/L		75	42 - 120
Heptachlor	ND		0.500	0.453		ug/L		91	56 - 120
Heptachlor epoxide	ND		0.500	0.445		ug/L		89	58 - 125
Methoxychlor	ND		0.500	0.527		ug/L		105	40 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*58*		*20 - 120*
DCB Decachlorobiphenyl	*52*		*20 - 120*
Tetrachloro-m-xylene	*79*		*44 - 120*
Tetrachloro-m-xylene	*69*		*44 - 120*

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583115

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 582893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.476	0.425		ug/L		89	57 - 130	3	23
4,4'-DDE	ND		0.476	0.312		ug/L		66	39 - 120	2	22
4,4'-DDT	ND		0.476	0.411		ug/L		86	37 - 130	4	24
Aldrin	ND		0.476	0.326		ug/L		69	39 - 125	9	25
alpha-BHC	ND		0.476	0.362		ug/L		76	48 - 120	15	24
cis-Chlordane	ND		0.476	0.340		ug/L		71	44 - 120	6	23
beta-BHC	ND		0.476	0.468		ug/L		98	49 - 120	10	24
delta-BHC	ND		0.476	0.460		ug/L		97	50 - 120	10	24
Dieldrin	ND		0.476	0.402		ug/L		84	56 - 130	9	24
Endosulfan I	ND		0.476	0.372		ug/L		78	40 - 126	10	30
Endosulfan II	ND		0.476	0.443		ug/L		93	59 - 140	7	40
Endosulfan sulfate	ND		0.476	0.559		ug/L		117	60 - 134	7	24
Endrin	ND		0.476	0.431		ug/L		91	54 - 135	8	24
Endrin aldehyde	ND	F2 F1	0.476	0.406	F2	ug/L		85	50 - 142	85	28
Endrin ketone	ND		0.476	0.544		ug/L		114	57 - 138	8	26
gamma-BHC (Lindane)	ND		0.476	0.416		ug/L		87	50 - 120	13	24

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583115

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 582893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-Chlordane	ND		0.476	0.360		ug/L		76	42 - 120	4	24
Heptachlor	ND		0.476	0.406		ug/L		85	56 - 120	11	25
Heptachlor epoxide	ND		0.476	0.403		ug/L		85	58 - 125	10	23
Methoxychlor	ND		0.476	0.511		ug/L		107	40 - 150	3	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*20 - 120*
DCB Decachlorobiphenyl	*63*		*20 - 120*
Tetrachloro-m-xylene	*72*		*44 - 120*
Tetrachloro-m-xylene	*62*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-583251/1-A
Matrix: Water
Analysis Batch: 583452

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1221	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1232	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1242	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1248	ND		0.50	0.18	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1254	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1260	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1262	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 14:06	1
PCB-1268	ND		0.50	0.25	ug/L		05/28/21 14:33	06/01/21 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*39 - 121*	*05/28/21 14:33*	*06/01/21 14:06*	*1*
Tetrachloro-m-xylene	*74*		*39 - 121*	*05/28/21 14:33*	*06/01/21 14:06*	*1*
DCB Decachlorobiphenyl	*56*		*19 - 120*	*05/28/21 14:33*	*06/01/21 14:06*	*1*
DCB Decachlorobiphenyl	*54*		*19 - 120*	*05/28/21 14:33*	*06/01/21 14:06*	*1*

Lab Sample ID: LCS 480-583251/2-A
Matrix: Water
Analysis Batch: 583452

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.22		ug/L		81	62 - 130
PCB-1260	4.00	3.04		ug/L		76	56 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*65*		*39 - 121*
Tetrachloro-m-xylene	*68*		*39 - 121*
DCB Decachlorobiphenyl	*44*		*19 - 120*
DCB Decachlorobiphenyl	*44*		*19 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583452

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		4.00	3.56		ug/L		89	28 - 150
PCB-1260	ND		4.00	2.50		ug/L		62	25 - 131

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*39 - 121*
Tetrachloro-m-xylene	*77*		*39 - 121*
DCB Decachlorobiphenyl	*46*		*19 - 120*
DCB Decachlorobiphenyl	*46*		*19 - 120*

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583452

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.10		ug/L		77	28 - 150	14	50
PCB-1260	ND		4.00	2.71		ug/L		68	25 - 131	8	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*39 - 121*
Tetrachloro-m-xylene	*67*		*39 - 121*
DCB Decachlorobiphenyl	*45*		*19 - 120*
DCB Decachlorobiphenyl	*43*		*19 - 120*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-167518/1-A
Matrix: Water
Analysis Batch: 167551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		06/02/21 15:56	06/03/21 14:12	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.58	ng/L		06/02/21 15:56	06/03/21 14:12	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-167518/1-A
Matrix: Water
Analysis Batch: 167551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		06/02/21 15:56	06/03/21 14:12	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		06/02/21 15:56	06/03/21 14:12	1
6:2 FTS	ND		5.0	1.1	ng/L		06/02/21 15:56	06/03/21 14:12	1
8:2 FTS	ND		2.0	0.39	ng/L		06/02/21 15:56	06/03/21 14:12	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*66*		*25 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C4 PFBA	*95*		*25 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C5 PFPeA	*95*		*25 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C2 PFHxA	*98*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C4 PFHpA	*91*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C4 PFOA	*93*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C5 PFNA	*96*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C2 PFDA	*96*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C2 PFUnA	*84*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C2 PFDoA	*71*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C2 PFTeDA	*66*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C3 PFBS	*90*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
18O2 PFHxS	*84*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
13C4 PFOS	*89*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
d3-NMeFOSAA	*93*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
d5-NEtFOSAA	*83*		*50 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
M2-6:2 FTS	*84*		*25 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*
M2-8:2 FTS	*99*		*25 - 150*	*06/02/21 15:56*	*06/03/21 14:12*	*1*

Lab Sample ID: LCS 200-167518/2-A
Matrix: Water
Analysis Batch: 167551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.0		ng/L		107	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	41.2		ng/L		103	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	42.0		ng/L		105	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	43.1		ng/L		108	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.0		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	40.0	40.4		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	39.2		ng/L		98	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	42.5		ng/L		106	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	36.2		ng/L		91	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	31.3		ng/L		78	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	33.5		ng/L		84	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.1		ng/L		102	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	40.2		ng/L		110	70 - 130

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-167518/2-A
Matrix: Water
Analysis Batch: 167551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.0		ng/L		100	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	33.3		ng/L		86	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	38.1		ng/L		103	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	34.4		ng/L		86	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.4		ng/L		89	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	32.9		ng/L		82	70 - 130
6:2 FTS	37.9	39.9		ng/L		105	50 - 150
8:2 FTS	38.3	37.5		ng/L		98	50 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*65*		*25 - 150*
13C4 PFBA	*101*		*25 - 150*
13C5 PFPeA	*102*		*25 - 150*
13C2 PFHxA	*101*		*50 - 150*
13C4 PFHpA	*97*		*50 - 150*
13C4 PFOA	*98*		*50 - 150*
13C5 PFNA	*101*		*50 - 150*
13C2 PFDA	*102*		*50 - 150*
13C2 PFUnA	*92*		*50 - 150*
13C2 PFDoA	*81*		*50 - 150*
13C2 PFTeDA	*67*		*50 - 150*
13C3 PFBS	*96*		*50 - 150*
18O2 PFHxS	*90*		*50 - 150*
13C4 PFOS	*91*		*50 - 150*
d3-NMeFOSAA	*108*		*50 - 150*
d5-NEtFOSAA	*108*		*50 - 150*
M2-6:2 FTS	*96*		*25 - 150*
M2-8:2 FTS	*108*		*25 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-583567/1-A
Matrix: Water
Analysis Batch: 583942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/03/21 10:10	06/04/21 00:29	1
Antimony	ND		0.020	0.0068	mg/L		06/03/21 10:10	06/04/21 00:29	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/21 10:10	06/04/21 00:29	1
Barium	ND		0.0020	0.00070	mg/L		06/03/21 10:10	06/04/21 00:29	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/21 10:10	06/04/21 00:29	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/21 10:10	06/04/21 00:29	1
Calcium	ND		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:29	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/21 10:10	06/04/21 00:29	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/21 10:10	06/04/21 00:29	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-583567/1-A
Matrix: Water
Analysis Batch: 583942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 583567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0016	mg/L		06/03/21 10:10	06/04/21 00:29	1
Iron	ND		0.050	0.019	mg/L		06/03/21 10:10	06/04/21 00:29	1
Lead	ND		0.010	0.0030	mg/L		06/03/21 10:10	06/04/21 00:29	1
Magnesium	ND		0.20	0.043	mg/L		06/03/21 10:10	06/04/21 00:29	1
Manganese	ND		0.0030	0.00040	mg/L		06/03/21 10:10	06/04/21 00:29	1
Nickel	ND		0.010	0.0013	mg/L		06/03/21 10:10	06/04/21 00:29	1
Potassium	ND		0.50	0.10	mg/L		06/03/21 10:10	06/04/21 00:29	1
Selenium	ND		0.025	0.0087	mg/L		06/03/21 10:10	06/04/21 00:29	1
Silver	ND		0.0060	0.0017	mg/L		06/03/21 10:10	06/04/21 00:29	1
Sodium	ND		1.0	0.32	mg/L		06/03/21 10:10	06/04/21 00:29	1
Thallium	ND		0.020	0.010	mg/L		06/03/21 10:10	06/04/21 00:29	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/21 10:10	06/04/21 00:29	1
Zinc	ND		0.010	0.0015	mg/L		06/03/21 10:10	06/04/21 00:29	1

Lab Sample ID: LCS 480-583567/2-A
Matrix: Water
Analysis Batch: 583942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 583567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.87		mg/L		99	80 - 120
Antimony	0.200	0.219		mg/L		109	80 - 120
Arsenic	0.200	0.202		mg/L		101	80 - 120
Barium	0.200	0.225		mg/L		113	80 - 120
Beryllium	0.200	0.201		mg/L		100	80 - 120
Cadmium	0.200	0.208		mg/L		104	80 - 120
Calcium	10.0	9.97		mg/L		100	80 - 120
Chromium	0.200	0.203		mg/L		101	80 - 120
Cobalt	0.200	0.197		mg/L		99	80 - 120
Copper	0.200	0.203		mg/L		102	80 - 120
Iron	10.0	9.20		mg/L		92	80 - 120
Lead	0.200	0.195		mg/L		97	80 - 120
Magnesium	10.0	10.14		mg/L		101	80 - 120
Manganese	0.200	0.206		mg/L		103	80 - 120
Nickel	0.200	0.194		mg/L		97	80 - 120
Potassium	10.0	10.57		mg/L		106	80 - 120
Selenium	0.200	0.203		mg/L		101	80 - 120
Silver	0.0500	0.0517		mg/L		103	80 - 120
Sodium	10.0	10.58		mg/L		106	80 - 120
Thallium	0.200	0.201		mg/L		100	80 - 120
Vanadium	0.200	0.200		mg/L		100	80 - 120
Zinc	0.200	0.193		mg/L		96	80 - 120

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583942

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.22		10.0	10.60		mg/L		104	75 - 125
Antimony	ND		0.200	0.232		mg/L		116	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-185211-9 MS
Matrix: Water
Analysis Batch: 583942

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.200	0.223		mg/L		112	75 - 125
Barium	0.055		0.200	0.281		mg/L		113	75 - 125
Beryllium	ND		0.200	0.211		mg/L		106	75 - 125
Cadmium	ND		0.200	0.222		mg/L		111	75 - 125
Calcium	138		10.0	145.5	4	mg/L		71	75 - 125
Chromium	ND		0.200	0.211		mg/L		106	75 - 125
Cobalt	ND		0.200	0.213		mg/L		106	75 - 125
Copper	0.0018	J	0.200	0.214		mg/L		106	75 - 125
Iron	2.6		10.0	12.06		mg/L		95	75 - 125
Lead	ND		0.200	0.213		mg/L		107	75 - 125
Magnesium	24.7		10.0	34.79		mg/L		101	75 - 125
Manganese	0.46		0.200	0.660		mg/L		102	75 - 125
Nickel	ND		0.200	0.210		mg/L		105	75 - 125
Potassium	2.5		10.0	13.95		mg/L		115	75 - 125
Selenium	ND		0.200	0.214		mg/L		107	75 - 125
Silver	ND		0.0500	0.0555		mg/L		111	75 - 125
Sodium	172		10.0	179.3	4	mg/L		76	75 - 125
Thallium	ND		0.200	0.210		mg/L		105	75 - 125
Vanadium	ND		0.200	0.213		mg/L		106	75 - 125
Zinc	0.0042	J	0.200	0.208		mg/L		102	75 - 125

Lab Sample ID: 480-185211-9 MSD
Matrix: Water
Analysis Batch: 583942

Client Sample ID: FBR-MW-15
Prep Type: Total/NA
Prep Batch: 583567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.22		10.0	10.16		mg/L		99	75 - 125	4	20
Antimony	ND		0.200	0.225		mg/L		113	75 - 125	3	20
Arsenic	ND		0.200	0.219		mg/L		110	75 - 125	2	20
Barium	0.055		0.200	0.273		mg/L		109	75 - 125	3	20
Beryllium	ND		0.200	0.205		mg/L		103	75 - 125	3	20
Cadmium	ND		0.200	0.216		mg/L		108	75 - 125	3	20
Calcium	138		10.0	142.3	4	mg/L		39	75 - 125	2	20
Chromium	ND		0.200	0.206		mg/L		103	75 - 125	3	20
Cobalt	ND		0.200	0.207		mg/L		104	75 - 125	3	20
Copper	0.0018	J	0.200	0.207		mg/L		103	75 - 125	3	20
Iron	2.6		10.0	11.54		mg/L		89	75 - 125	4	20
Lead	ND		0.200	0.207		mg/L		103	75 - 125	3	20
Magnesium	24.7		10.0	33.95		mg/L		93	75 - 125	2	20
Manganese	0.46		0.200	0.645		mg/L		95	75 - 125	2	20
Nickel	ND		0.200	0.205		mg/L		102	75 - 125	3	20
Potassium	2.5		10.0	13.57		mg/L		111	75 - 125	3	20
Selenium	ND		0.200	0.206		mg/L		103	75 - 125	4	20
Silver	ND		0.0500	0.0528		mg/L		106	75 - 125	5	20
Sodium	172		10.0	175.1	4	mg/L		34	75 - 125	2	20
Thallium	ND		0.200	0.205		mg/L		102	75 - 125	2	20
Vanadium	ND		0.200	0.208		mg/L		104	75 - 125	2	20
Zinc	0.0042	J	0.200	0.203		mg/L		100	75 - 125	2	20

GC/MS VOA

Analysis Batch: 583546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-2	FBR-MW-16D	Total/NA	Water	8260C	
480-185211-3	FBR-MW-11	Total/NA	Water	8260C	
480-185211-4	FBR-MW-31	Total/NA	Water	8260C	
480-185211-6	FBR-MW-30	Total/NA	Water	8260C	
480-185211-11	FBR-MW-19D	Total/NA	Water	8260C	
480-185211-12	FBR-MW-33	Total/NA	Water	8260C	
480-185211-14	FBR-MW-20	Total/NA	Water	8260C	
MB 480-583546/7	Method Blank	Total/NA	Water	8260C	
LCS 480-583546/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 582776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-12	FBR-MW-33	Total/NA	Water	3510C	
480-185211-14	FBR-MW-20	Total/NA	Water	3510C	
MB 480-582776/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-582776/2-A	Lab Control Sample	Total/NA	Water	3510C	

Prep Batch: 583028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-5	FBR-MW-23	Total/NA	Water	3510C	
480-185211-8	FBR-MW-18	Total/NA	Water	3510C	
480-185211-9	FBR-MW-15	Total/NA	Water	3510C	
480-185211-14	FBR-MW-20	Total/NA	Water	3510C	
480-185211-15	DUP	Total/NA	Water	3510C	
MB 480-583028/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-583028/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-185211-9 MS	FBR-MW-15	Total/NA	Water	3510C	
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	3510C	

Analysis Batch: 583187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-9	FBR-MW-15	Total/NA	Water	8270D	583028
MB 480-583028/1-A	Method Blank	Total/NA	Water	8270D	583028
LCS 480-583028/2-A	Lab Control Sample	Total/NA	Water	8270D	583028
480-185211-9 MS	FBR-MW-15	Total/NA	Water	8270D	583028
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	8270D	583028

Analysis Batch: 583198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-5	FBR-MW-23	Total/NA	Water	8270D	583028
480-185211-8	FBR-MW-18	Total/NA	Water	8270D	583028
480-185211-14	FBR-MW-20	Total/NA	Water	8270D	583028
480-185211-15	DUP	Total/NA	Water	8270D	583028

Analysis Batch: 583275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-12	FBR-MW-33	Total/NA	Water	8270D SIM ID	582776
480-185211-14	FBR-MW-20	Total/NA	Water	8270D SIM ID	582776
MB 480-582776/1-A	Method Blank	Total/NA	Water	8270D SIM ID	582776

GC/MS Semi VOA (Continued)

Analysis Batch: 583275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-582776/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	582776

GC Semi VOA

Prep Batch: 582893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	3510C	
480-185211-3	FBR-MW-11	Total/NA	Water	3510C	
480-185211-9	FBR-MW-15	Total/NA	Water	3510C	
480-185211-10	FBR-MW-15D	Total/NA	Water	3510C	
480-185211-13	FBR-MW-32	Total/NA	Water	3510C	
480-185211-14	FBR-MW-20	Total/NA	Water	3510C	
480-185211-15	DUP	Total/NA	Water	3510C	
MB 480-582893/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-582893/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-185211-9 MS	FBR-MW-15	Total/NA	Water	3510C	
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	3510C	

Analysis Batch: 583115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	8081B	582893
480-185211-3	FBR-MW-11	Total/NA	Water	8081B	582893
480-185211-9	FBR-MW-15	Total/NA	Water	8081B	582893
480-185211-10	FBR-MW-15D	Total/NA	Water	8081B	582893
480-185211-13	FBR-MW-32	Total/NA	Water	8081B	582893
480-185211-15	DUP	Total/NA	Water	8081B	582893
MB 480-582893/1-A	Method Blank	Total/NA	Water	8081B	582893
LCS 480-582893/2-A	Lab Control Sample	Total/NA	Water	8081B	582893
480-185211-9 MS	FBR-MW-15	Total/NA	Water	8081B	582893
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	8081B	582893

Prep Batch: 583251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	3510C	
480-185211-9	FBR-MW-15	Total/NA	Water	3510C	
480-185211-10	FBR-MW-15D	Total/NA	Water	3510C	
480-185211-14	FBR-MW-20	Total/NA	Water	3510C	
480-185211-15	DUP	Total/NA	Water	3510C	
MB 480-583251/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-583251/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-185211-9 MS	FBR-MW-15	Total/NA	Water	3510C	
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	3510C	

Analysis Batch: 583366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-14	FBR-MW-20	Total/NA	Water	8081B	582893

Analysis Batch: 583452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	8082A	583251
480-185211-9	FBR-MW-15	Total/NA	Water	8082A	583251

GC Semi VOA (Continued)

Analysis Batch: 583452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-10	FBR-MW-15D	Total/NA	Water	8082A	583251
480-185211-14	FBR-MW-20	Total/NA	Water	8082A	583251
480-185211-15	DUP	Total/NA	Water	8082A	583251
MB 480-583251/1-A	Method Blank	Total/NA	Water	8082A	583251
LCS 480-583251/2-A	Lab Control Sample	Total/NA	Water	8082A	583251
480-185211-9 MS	FBR-MW-15	Total/NA	Water	8082A	583251
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	8082A	583251

LCMS

Prep Batch: 167518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	3535	
480-185211-3	FBR-MW-11	Total/NA	Water	3535	
480-185211-6	FBR-MW-30	Total/NA	Water	3535	
480-185211-12	FBR-MW-33	Total/NA	Water	3535	
480-185211-14	FBR-MW-20	Total/NA	Water	3535	
MB 200-167518/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-167518/2-A	Lab Control Sample	Total/NA	Water	3535	

Analysis Batch: 167551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	537 (modified)	167518
480-185211-3	FBR-MW-11	Total/NA	Water	537 (modified)	167518
480-185211-6	FBR-MW-30	Total/NA	Water	537 (modified)	167518
480-185211-12	FBR-MW-33	Total/NA	Water	537 (modified)	167518
480-185211-14	FBR-MW-20	Total/NA	Water	537 (modified)	167518
MB 200-167518/1-A	Method Blank	Total/NA	Water	537 (modified)	167518
LCS 200-167518/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	167518

Metals

Prep Batch: 583567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	3005A	
480-185211-5	FBR-MW-23	Total/NA	Water	3005A	
480-185211-7	FBR-MW-21	Total/NA	Water	3005A	
480-185211-9	FBR-MW-15	Total/NA	Water	3005A	
480-185211-10	FBR-MW-15D	Total/NA	Water	3005A	
480-185211-12	FBR-MW-33	Total/NA	Water	3005A	
480-185211-14	FBR-MW-20	Total/NA	Water	3005A	
480-185211-15	DUP	Total/NA	Water	3005A	
MB 480-583567/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-583567/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-185211-9 MS	FBR-MW-15	Total/NA	Water	3005A	
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	3005A	

Analysis Batch: 583942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-1	FBR-MW-16	Total/NA	Water	6010C	583567
480-185211-5	FBR-MW-23	Total/NA	Water	6010C	583567
480-185211-7	FBR-MW-21	Total/NA	Water	6010C	583567

Metals (Continued)

Analysis Batch: 583942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185211-9	FBR-MW-15	Total/NA	Water	6010C	583567
480-185211-10	FBR-MW-15D	Total/NA	Water	6010C	583567
480-185211-12	FBR-MW-33	Total/NA	Water	6010C	583567
480-185211-14	FBR-MW-20	Total/NA	Water	6010C	583567
480-185211-15	DUP	Total/NA	Water	6010C	583567
MB 480-583567/1-A	Method Blank	Total/NA	Water	6010C	583567
LCS 480-583567/2-A	Lab Control Sample	Total/NA	Water	6010C	583567
480-185211-9 MS	FBR-MW-15	Total/NA	Water	6010C	583567
480-185211-9 MSD	FBR-MW-15	Total/NA	Water	6010C	583567

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-16
Lab Sample ID: 480-185211-1
Date Collected: 05/24/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 13:07	JLS	TAL BUF
Total/NA	Prep	3510C			583251	05/28/21 14:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	583452	06/01/21 16:40	W1T	TAL BUF
Total/NA	Prep	3535			167518	06/02/21 15:56	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	167551	06/03/21 16:50	BWC	TAL BUR
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 00:37	AMH	TAL BUF

Client Sample ID: FBR-MW-16D
Lab Sample ID: 480-185211-2
Date Collected: 05/24/21 12:35
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	583546	06/02/21 15:00	CRL	TAL BUF

Client Sample ID: FBR-MW-11
Lab Sample ID: 480-185211-3
Date Collected: 05/24/21 14:10
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	583546	06/02/21 15:22	CRL	TAL BUF
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 13:26	JLS	TAL BUF
Total/NA	Prep	3535			167518	06/02/21 15:56	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	167551	06/03/21 16:58	BWC	TAL BUR

Client Sample ID: FBR-MW-31
Lab Sample ID: 480-185211-4
Date Collected: 05/24/21 15:25
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	583546	06/02/21 15:45	CRL	TAL BUF

Client Sample ID: FBR-MW-23
Lab Sample ID: 480-185211-5
Date Collected: 05/25/21 09:40
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			583028	05/27/21 14:39	ATG	TAL BUF
Total/NA	Analysis	8270D		1	583198	05/29/21 08:12	JMM	TAL BUF
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 00:40	AMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-30
Lab Sample ID: 480-185211-6
Date Collected: 05/25/21 11:30
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	583546	06/02/21 16:07	CRL	TAL BUF
Total/NA	Prep	3535			167518	06/02/21 15:56	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	167551	06/03/21 17:06	BWC	TAL BUR

Client Sample ID: FBR-MW-21
Lab Sample ID: 480-185211-7
Date Collected: 05/25/21 12:50
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 00:44	AMH	TAL BUF

Client Sample ID: FBR-MW-18
Lab Sample ID: 480-185211-8
Date Collected: 05/25/21 14:30
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			583028	05/27/21 14:39	ATG	TAL BUF
Total/NA	Analysis	8270D		1	583198	05/29/21 08:39	JMM	TAL BUF

Client Sample ID: FBR-MW-15
Lab Sample ID: 480-185211-9
Date Collected: 05/25/21 11:15
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			583028	05/27/21 14:39	ATG	TAL BUF
Total/NA	Analysis	8270D		5	583187	05/28/21 22:40	JMM	TAL BUF
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 11:28	JLS	TAL BUF
Total/NA	Prep	3510C			583251	05/28/21 14:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	583452	06/01/21 15:36	W1T	TAL BUF
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 00:48	AMH	TAL BUF

Client Sample ID: FBR-MW-15D
Lab Sample ID: 480-185211-10
Date Collected: 05/25/21 12:30
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 13:46	JLS	TAL BUF
Total/NA	Prep	3510C			583251	05/28/21 14:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	583452	06/01/21 16:53	W1T	TAL BUF
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 01:18	AMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: FBR-MW-19D
Lab Sample ID: 480-185211-11
Date Collected: 05/24/21 12:00
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	583546	06/02/21 16:29	CRL	TAL BUF

Client Sample ID: FBR-MW-33
Lab Sample ID: 480-185211-12
Date Collected: 05/24/21 13:55
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	583546	06/02/21 16:52	CRL	TAL BUF
Total/NA	Prep	3510C			582776	05/26/21 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	583275	05/28/21 22:24	RJS	TAL BUF
Total/NA	Prep	3535			167518	06/02/21 15:56	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	167551	06/03/21 17:14	BWC	TAL BUR
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 01:22	AMH	TAL BUF

Client Sample ID: FBR-MW-32
Lab Sample ID: 480-185211-13
Date Collected: 05/24/21 15:00
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 14:06	JLS	TAL BUF

Client Sample ID: FBR-MW-20
Lab Sample ID: 480-185211-14
Date Collected: 05/25/21 14:00
Matrix: Water
Date Received: 05/26/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	583546	06/02/21 17:14	CRL	TAL BUF
Total/NA	Prep	3510C			583028	05/27/21 14:39	ATG	TAL BUF
Total/NA	Analysis	8270D		5	583198	05/29/21 09:06	JMM	TAL BUF
Total/NA	Prep	3510C			582776	05/26/21 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	583275	05/28/21 22:48	RJS	TAL BUF
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		5	583366	06/01/21 09:55	JLS	TAL BUF
Total/NA	Prep	3510C			583251	05/28/21 14:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	583452	06/01/21 17:06	W1T	TAL BUF
Total/NA	Prep	3535			167518	06/02/21 15:56	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	167551	06/03/21 17:23	BWC	TAL BUR
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 01:25	AMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Client Sample ID: DUP
Date Collected: 05/25/21 16:00
Date Received: 05/26/21 08:00

Lab Sample ID: 480-185211-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			583028	05/27/21 14:39	ATG	TAL BUF
Total/NA	Analysis	8270D		1	583198	05/29/21 09:34	JMM	TAL BUF
Total/NA	Prep	3510C			582893	05/27/21 08:24	JMP	TAL BUF
Total/NA	Analysis	8081B		1	583115	05/28/21 14:45	JLS	TAL BUF
Total/NA	Prep	3510C			583251	05/28/21 14:33	ATG	TAL BUF
Total/NA	Analysis	8082A		1	583452	06/01/21 17:19	W1T	TAL BUF
Total/NA	Prep	3005A			583567	06/03/21 10:10	KMP	TAL BUF
Total/NA	Analysis	6010C		1	583942	06/04/21 01:29	AMH	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
Job ID: 480-185211-1
Project/Site: SMP B 34 Freemans Brodge Rd 447028

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185211-1	FBR-MW-16	Water	05/24/21 11:30	05/26/21 08:00	
480-185211-2	FBR-MW-16D	Water	05/24/21 12:35	05/26/21 08:00	
480-185211-3	FBR-MW-11	Water	05/24/21 14:10	05/26/21 08:00	
480-185211-4	FBR-MW-31	Water	05/24/21 15:25	05/26/21 08:00	
480-185211-5	FBR-MW-23	Water	05/25/21 09:40	05/26/21 08:00	
480-185211-6	FBR-MW-30	Water	05/25/21 11:30	05/26/21 08:00	
480-185211-7	FBR-MW-21	Water	05/25/21 12:50	05/26/21 08:00	
480-185211-8	FBR-MW-18	Water	05/25/21 14:30	05/26/21 08:00	
480-185211-9	FBR-MW-15	Water	05/25/21 11:15	05/26/21 08:00	
480-185211-10	FBR-MW-15D	Water	05/25/21 12:30	05/26/21 08:00	
480-185211-11	FBR-MW-19D	Water	05/24/21 12:00	05/26/21 08:00	
480-185211-12	FBR-MW-33	Water	05/24/21 13:55	05/26/21 08:00	
480-185211-13	FBR-MW-32	Water	05/24/21 15:00	05/26/21 08:00	
480-185211-14	FBR-MW-20	Water	05/25/21 14:00	05/26/21 08:00	
480-185211-15	DUP	Water	05/25/21 16:00	05/26/21 08:00	

TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-160164-35249.1
Client Contact: Mr. Justin King	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 5
Company: TRC Environmental Corporation	PWSID:			Job #:
Address: 10 Maxwell Drive Suite 200	Due Date Requested: 5			
City: Clifton Park	TAT Requested (days):			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SMP1215			
Email: jking@trccompanies.com	WO #:			
Project Name: SMP B - 34 Freemans Bridge Rd 447028	Project #: 48022480			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
K - EDTA
L - EDA
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

480-185211 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, ~~7470A~~	8260C - TCL VOAs + TICs	8082A - PCBs	8270D - TCL SVOAs + TICs	8081B - TCL Pesticides	PFC_IDA - PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - 1,4-Dioxane								Total Number of containe	Special Instructions/Note:
Preservation Code:					X	X	D	A	N	N	N	N	N								X	
FBR-MW-16	5/24/21	1130	G	Water			X		X		X	X										
FBR-MW-16D	5/24/21	1235	G	Water				X														
FBR-MW-11	5/24/21	1410	G	Water				X			X	X										
FBR-MW-31	5/24/21	1525	G	Water				X														
FBR-MW-23	5/25/21	940	G	Water			X			X												
FBR-MW-30	5/25/21	1130	G	Water				X														
FBR-MW-21	5/25/21	1250	G	Water			X															
FBR-MW-18	5/25/21	1430	G	Water						X												
FBR-MW-15	5/25/21	1115	G	Water		X	X		X	X	X											
FBR-MW-15D	5/25/21	1230	G	Water			X		X		X											
FBR-MW-19D	5/24/21	1200	G	Water				X														

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Justin Link / Lexie Lill	5/25/21 16:20	TRC			
2		5-25-2021 1700	EEVA		5-25-2021 1620	EEVA
3	Relinquished by:	Date/Time:	Company	Received by:	5/26/21 0800	TAL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 3.0, 2.7

Ver: 11/01/2020

Eurofins Environment Testing America, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-160164-35249.2
Client Contact: Mr. Justin King	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 2 of 5
Company: TRC Environmental Corporation	PWSID:			Job #:
Address: 10 Maxwell Drive Suite 200	Due Date Requested: 5			
City: Clifton Park	TAT Requested (days):			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SMP1215			
Email: jking@trccompanies.com	WO #:			
Project Name: SMP B - 34 Freemans Bridge Rd 447028	Project #: 48022480			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, ~~7470A~~	8260C - TCL VOAs + TICs	8082A - PCBs	8270D - TCL SVOAs + TICs	8081B - TCL Pesticides	PFC_IDA - PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N	N	N		
FBR-MW-33	5-24-21	1355	G	Water			X	X				X	X		
FBR-MW-32	5-24-21	1500	G	Water							X				
FBR-MW-20	5-25-21	1400	G	Water			X	X	X	X	X	X	X		
DUP	5-25-21	1600	G	Water			X		X	X	X				
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

5-25-2021

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Lexie Lill	5/25/21 16:20	TRC			
2		5-25-2021 1700	EEN		5-25-2021 1620	EEN
3					5/26/21 0800	TAB

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-160164-35249.1
Client Contact: Mr. Justin King	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 1 of 5
Company: TRC Environmental Corporation	PWSID:	Analysis Requested		Job #:
Address: 10 Maxwell Drive Suite 200	Due Date Requested:			Preservation Codes:
City: Clifton Park	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SMP1215			Other:
Email: jking@trccompanies.com	WO #:			
Project Name: SMP B - 34 Freemans Bridge Rd 447028	Project #: 48022480			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C_7470A	8260C - TCL VOAs + TICs	8082A - PCBs	8270D - TCL SVOAs + TICs	8081B - TCL Pesticides	PFC_IDA - PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N	N	N		
FBR-MW-16	5/24/21	1130	G	Water			X		X		X	X			
FBR-MW-16D	5/24/21	1235	G	Water				X							
FBR-MW-11	5/24/21	1410	G	Water				X			X	X			
FBR-MW-31	5/24/21	1525	G	Water				X							
FBR-MW-23	5/25/21	940	G	Water			X			X					
FBR-MW-30	5/25/21	1130	G	Water				X							
FBR-MW-21	5/25/21	1250	G	Water			X								
FBR-MW-18	5/25/21	1430	G	Water						X					
FBR-MW-15	5/25/21	1115	G	Water	X	X		X		X	X				
FBR-MW-15D	5/25/21	1230	G	Water		X		X			X				
FBR-MW-19D	5/24/21	1200	G	Water			X								

480-185211 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lexie Lill / Lexie Lill	5/25/21 16:20	TRC		5-25-2021 1620	EEA
2		5-26-2021 1200	EEA	Taylor J Whitehurst	5/27/21 1030	ETABUF
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-160164-35249.2
Client Contact: Mr. Justin King	Phone: 518-641-8418	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 2 of 5
Company: TRC Environmental Corporation	PWSID:			Job #:
Address: 10 Maxwell Drive Suite 200	Due Date Requested: S			
City: Clifton Park	TAT Requested (days):			
State, Zip: NY, 12065	Compliance Project: Δ Yes Δ No			
Phone:	PO #: SMP1215			
Email: jking@trccompanies.com	WO #:			
Project Name: SMP B - 34 Freemans Bridge Rd 447028	Project #: 48022480			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A	8260C - TCL VOAs + TICs	8082A - PCBs	8270D - TCL SVOAs + TICs	8081B - TCL Pesticides	PFC_IDA + PFAS, Standard List (21) - BURL	8270D_SIM_MS_ID - 1,4-Dioxane	Total Number of containers	Special Instructions/Note:
	Preservation Code:						D	A	N	N	N	N	N		
FBR-MW-33	5-24-21	1355	G	Water			X	X				X	X		
FBR-MW-32	5-24-21	1500	G	Water							X				
FBR-MW-20	5-25-21	1400	G	Water			X	X	X	X	X	X	X		
DUP	5-25-21	1600	G	Water			X		X	X	X				
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

5-25-2021

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lexie Lill	5/25/21 16:20	TRC		5-25-2021 1620	EETA
2		5-26-2021 1700	EETA	Taylor Whitmore	5/27/21 1030	ETA BUFF
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

FROM:
TIM KNOLLMEYER (518) 438-8140
TESTAMERICA LAB INC
25 KRAFT AVE

ALBANY NY 12205
US

SHIP DATE: 26MAY21
ACTWGT: 27.00 LB
CAD: 0886598/CAFE3409

BILL 3rd PARTY

TO SAMPLE RECEIVING
TESTAMERICA – BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403
(802) 660-1990
REF: TRC& NYSTA PFAS

(US)

FedEx Ground

TRK# 5013 1604 8697

05403

9622 0417 3 (000 000 0000) 0 00 5013 1604 8697

Part # 156148-434 RIT EXP 11/21

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-185211 Chain of Custody

Eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L		61.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	New York	Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-185211-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 6/9/2021			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: SMP B 34 Freemans Brodge Rd 447028	Project #: 48022480			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IWT PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FBR-MW-30 (480-185211-6)	5/25/21	11:30 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/27/21 17:00	Company TA	Received by:	Date/Time: 5/28/21 10:35	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

FedEx
Do Not Lift Using This Tag
eurofins
Part # 159469-494 RIT2 EXP 01/22
ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR
AMHERST, NY 14228
UNITED STATES US
DIMS: 23x15x14 IN
BILL SENDER
TO SAMPLE MGT.
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA BURLINGTON
FedEx Express
TRK# 0201 1888 3864 1253
FRI - 28 MAY 10:30A
PRIORITY OVERNIGHT
NL BTVA
05403
VT-US BTV

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-185211-1

Login Number: 185211 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-185211-1

Login Number: 185211 **List Source: Eurofins TestAmerica, Burlington**
List Number: 2 **List Creation: 05/27/21 01:50 PM**
Creator: Cunningham, Caroline R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1595156
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-185211-1

Login Number: 185211
List Number: 3
Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington
List Creation: 05/28/21 02:45 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1513063
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix E

Data Validation Report

Site:	SMP B – 34 Freemans Bridge Rd
Laboratory:	Eurofins TestAmerica Buffalo – Amherst, NY
SDG No.:	480-185211-1
Parameter:	Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Organochlorine Pesticides, Polychlorinated Biphenyl (PCB) Aroclors
Data Reviewer:	Amy Bass/TRC
Peer Reviewer:	Elizabeth Denly/TRC
Date:	August 23, 2021

Samples Reviewed and Evaluation Summary

14 / Groundwater: FBR-MW-16, FBR-MW-16D, FBR-MW-11, FBR-MW-31, FBR-MW-23, FBR-MW-30, FBR-MW-18, FBR-MW-15, FBR-MW-15D, FBR-MW-19D, FBR-MW-33, FBR-MW-32, FBR-MW-20, DUP[1]

[1] field duplicate (DUP) for FBR-MW-15

The above-listed groundwater samples were collected on May 24 and 25, 2021, and were analyzed for one or more of the following parameters:

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Methods 3510C/8270D
- Organochlorine Pesticides by SW-846 Methods 3510C/8081B
- PCB Aroclors by SW-846 Methods 3510C/8082A

The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005),* November 2020, modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

	• Overall Evaluation of Data and Potential Usability Issues
	• Data Completeness
*	• Holding Times and Sample Preservation
*	• Gas Chromatography/Electron Capture Detector (GC/ECD) Instrument Performance Checks
*	• Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	• Initial and Continuing Calibrations
	• Blanks
	• Surrogate Recoveries
	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
N/A	• Laboratory Duplicate Results
*	• Internal Standards
	• Laboratory Control Sample (LCS) Results
*	• Field Duplicate Results
	• Sample Results and Reported Quantitation Limits (QLs)
*	• Target Compound Identification
	• Tentatively Identified Compounds (TICs)

* - All criteria were met.
NA - A laboratory duplicate was not associated with this sample set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives with the exception of the nondetect results for pesticides in sample FBR-MW-20 due to surrogate percent recovery (%R) below 10% on both columns. These results are not usable for project objectives, which may have a major impact on the data usability.

Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC and SVOC results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) by the laboratory. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for select VOCs and SVOCs in all samples were qualified as estimated (UJ) due to calibration nonconformances. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The nondetect results for all pesticides in sample FBR-MW-20 were rejected (R) due to surrogate %R <10% on both columns. These results are not usable for project objectives, which may have a major impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package, with the following exception.

- The laboratory did not report LCS %Rs or laboratory acceptance criteria for total xylenes on the VOCs summary form. The %R was calculated during validation, and the laboratory acceptance limits were provided to the reviewers by the laboratory; no validation actions were taken on this basis.

It was noted that the laboratory mistakenly entered the job description as “Freemans Brodge Rd” rather than “Freemans Bridge Rd”. This discrepancy is noted, but no further action was taken on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/ECD Instrument Performance Checks

All criteria were met for the DDT/endrin breakdown checks associated with the pesticide analyses.

GC/MS Tunes

All GC/MS tune criteria were met in the VOC and SVOC analyses.

Initial and Continuing Calibrations

VOCs

All percent relative standard deviations (%RSDs), correlation coefficients, and relative response factors (RRFs) were within the method acceptance criteria in the initial calibration (IC) associated with the samples in this data set.

The following table summarizes the percent differences or percent drifts (%Ds) that did not meet the method acceptance criteria in the continuing calibration (CC) standard associated with the samples in this data set.

CC	Analyte	%D	Validation Action
CCVIS 480-583546/3 06/02/21 @09:38	cis-1,3-Dichloropropene	22.3	The nondetect results for these VOCs were qualified as estimated (UJ) in the associated samples.
	trans-1,3-Dichloropropene	21.4	
	Styrene	20.3	
Associated samples: FBR-MW-16D, FBR-MW-11, FBR-MW-31, FBR-MW-30, FBR-MW-19D, FBR-MW-33, FBR-MW-20			

SVOCs

All %RSDs, correlation coefficients, and RRFs were within the method acceptance criteria in the IC associated with the samples in this data set. The following table summarizes the %Ds that did not meet the method acceptance criteria in the CC standards associated with this sample set.

CC	Analyte	%D	Validation Action
CCVIS 480-583187/3 05/28/21 @15:51	2,4-Dinitrophenol	-31.4	The nondetect results for these SVOCs were qualified as estimated (UJ) in the associated sample.
	4,6-Dinitro-2-methylphenol	-25.9	
Associated sample: FBR-MW-15			
CCVIS 480-583198/3 05/29/21 @06:50	Hexachlorocyclopentadiene	-20.9	The nondetect results for these SVOCs were qualified as estimated (UJ) in the associated samples.
	2,4-Dinitrophenol	-29.9	
	Pentachlorophenol	-23.4	
Associated samples: FBR-MW-23, FBR-MW-18, FBR-MW-20, DUP			

Pesticides

All %RSDs and correlation coefficients were within the method acceptance criteria for the target analytes in the ICs associated with the samples in this data set. All %Ds met the method acceptance criteria in the CC standards associated with the samples in this data set.

PCBs

All %RSDs and correlation coefficients were within the method acceptance criteria for the target analytes in the ICs associated with the samples in this data set.

The following table summarizes the %Ds that did not meet the method acceptance criteria in the CC standards associated with the samples in this data set.

CC	Analyte / Peak	%D Column: *		Validation Actions
		1	2	
CCVIS 480-583452/5 06/01/21 @12:49	Aroclor 1016 / #1	21.1	-	Qualification was not required since Aroclors were not detected in the associated samples, and the %Ds met criteria on one of the two columns, for each peak.
	Aroclor 1016 / #3	-	-22.8	
	Aroclor 1016 / #4	26.1	-	
	Aroclor 1260 / #2	31.8	-	
	Aroclor 1260 / #3	34.1	-	
	Aroclor 1260 / #5	31.8	-	
Associated Samples: FBR-MW-16, FBR-MW-15, FBR-MW-15D, FBR-MW-20, DUP				
* Column: 1 = ZB-5; 2 = ZB-35. - Met criteria				

Blanks

There were no target compounds detected in the method blanks associated with this sample set for VOC, SVOC, and PCB analyses. The following table summarizes the pesticide method blank contamination, the associated samples, and the resulting validation actions.

Parameter Blank ID	Analyte	Blank Concentration	2× Blank Concentration	Validation Actions
Pesticides MB 480-582893/1-A	Endrin aldehyde	0.0192 J µg/L	0.0384 µg/L	Sample qualification was not required since this pesticide was nondetect in the associated samples.
Associated Samples: FBR-MW-16, FBR-MW-15, FBR-MW-15D, FBR-MW-20, FBR-MW-32, DUP				

Surrogate Recoveries

VOCs, PCBs

The surrogate %Rs met the laboratory acceptance criteria in the VOC and PCB analyses.

SVOCs

The following table lists the SVOC surrogate %Rs outside of the acceptance limits and the resulting validation actions.

Sample ID	Surrogate	%R	%R QC Limits	Validation Action
FBR-MW-20	p-Terphenyl-d14	55	60-148	Qualification was not required since only one base-neutral surrogate was outside of the acceptance limits; the other two base-neutral surrogates met criteria.

Pesticides

The following table lists the surrogate %Rs outside of the acceptance limits and the resulting validation actions.

Sample ID (dilution)	Surrogate	%R Column 1	%R Column 2	%R QC Limits	Validation Action
FBR-MW-20 (5-fold dilution)	Tetrachloro-m-xylene	-	28	44-120	The nondetect results for the pesticides in this sample were rejected (R) due to the lack of recovery (≤10%) on both columns.
	Decachlorobiphenyl	0	0	20-120	
- Criteria met					

MS/MSD Results

MS and MSD analyses were performed for the SVOC, pesticide, and PCB analyses on sample FBR-MW-15. All %Rs and relative percent difference (RPDs) were within the laboratory acceptance criteria in the SVOC and PCB MS and MSD analyses. The following table summarizes the %R and RPD for one pesticide that did not meet the laboratory acceptance criteria and the resulting validation actions

MS/MSD Sample ID	Analyte	MS %R (QC limits)	MSD %R (QC limits)	RPD (limit)	Validation Action
FBR-MW-15	Endrin aldehyde	203 (50-142)	-	85 (28)	Qualification was not required since this analyte was nondetect in sample FBR-MW-15.
– Criteria met					

Laboratory Duplicate Results

Laboratory duplicate analyses were not performed for these parameters in this sample set.

Internal Standards

All internal standard criteria were met.

LCS Results

The LCS and/or LCSD %Rs and the LCS/LCSD RPDs were within the laboratory acceptance criteria in the SVOC, pesticide, and PCB analyses. The following table summarizes the LCS %R that did not meet criteria in the VOC analyses, the associated samples, and the resulting validation actions.

LCS Sample ID	Analyte	LCS %R (QC limits)	Validation Action
LCS 480-583546/5 (Batch 583546)	trans-1,3-Dichloropropene	127 (80-120)	Qualification was not required since this analyte was nondetect in the associated samples.
Associated Samples: FBR-MW-16D, FBR-MW-11, FBR-MW-31, FBR-MW-30, FBR-MW-19D, FBR-MW-33, FBR-MW-20			

Note that the laboratory did not report LCS %Rs or laboratory acceptance criteria for total xylenes on the VOC LCS summary form. The %R (110%) was calculated during validation and was within the laboratory acceptance limits (79-122%) provided to the reviewers by the laboratory.

Field Duplicate Results

One field duplicate pair was submitted with this sample set: FBR-MW-15 and DUP. All target analytes for the SVOC, pesticide, and PCB analyses were nondetect in samples FBR-MW-15 and DUP; therefore, the results are in acceptable agreement, and no detailed evaluation was required. Note that only SVOC, pesticide, and PCB analyses were performed; VOC analysis was not requested for the field duplicate pair.

Sample Results and Reported Quantitation Limits

Select VOC and SVOC results were reported below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

Sample calculations for all parameters were spot-checked; there were no errors noted.

The following table summarizes dilutions performed on samples in this data set; QLs were elevated accordingly.

Parameter Sample ID	Dilution	Reason for Dilution
VOCs: FBR-MW-11 FBR-MW-31 FBR-MW-33	2-fold	Dilution was performed due to foaming at the time of purging during the original sample analyses.
FBR-MW-20	8-fold	
SVOCs: FBR-MW-15 FBR-MW-20	5-fold	Dilution was performed due to color, appearance, and viscosity.
Pesticides: FBR-MW-20	5-fold	Dilution was performed due to the nature of the sample matrix.

Target Compound Identification

All criteria were met.

Tentatively Identified Compounds (TICs)

No TICs were reported in the VOC method blank. The following table summarizes the SVOC TICs that were considered to be not detected in samples due to the presence of the same TIC in the associated SVOC method blank. The remaining TICs found in the samples were not affected because these TICs were not present in the associated method blank.

Blank ID	Affected Samples	TIC: Sample Concentration (Retention Time)
SVOC MB 480-583028/1-A	FBR-MW-23	Unknown: 4.6 TJ µg/L (3.33 minutes) Unknown: 250 TJ µg/L (3.43 minutes) Unknown: 3.3 TJ µg/L (3.67 minutes) * Heptane: 11 TJN µg/L (3.69 minutes) * Unknown: 2.6 TJ µg/L (4.45 minutes) Unknown: 36 TJ µg/L (5.20 minutes) Column Bleed: 1.8 TJ µg/L (6.25 minutes) Column Bleed: 2.8 TJ µg/L (7.20 minutes)

Blank ID	Affected Samples	TIC: Sample Concentration (Retention Time)
	FBR-MW-18	Unknown: 5.8 TJ µg/L (3.33 minutes) Unknown: 270 TJ µg/L (3.43 minutes) Heptane: 3.5 TJ µg/L (3.67 minutes) Unknown: 2.8 TJ µg/L (4.45 minutes) Unknown: 37 TJ µg/L (5.20 minutes) Column Bleed: 2.2 TJ µg/L (6.25 minutes) Column Bleed: 3.8 TJ µg/L (7.20 minutes) Unknown: 5.6 TJ µg/L (8.16 minutes)
	FBR-MW-15	Cyclohexane: 50 TJN µg/L (3.18 minutes) Unknown: 270 TJ µg/L (3.35 minutes) Heptane: 41 TJ µg/L (3.61 minutes) Unknown: 44 TJ µg/L (5.19 minutes)
	FBR-MW-20	Cyclohexane: 38 TJN µg/L (3.18 minutes) Unknown: 200 TJ µg/L (3.35 minutes) Heptane: 32 TJ µg/L (3.61 minutes) Unknown: 26 TJ µg/L (5.19 minutes)
	DUP	Unknown: 2.0 TJ µg/L (3.33 minutes) Unknown: 250 TJ µg/L (3.43 minutes) Unknown: 3.6 TJ µg/L (3.67 minutes) * Unknown: 11 TJ µg/L (3.69 minutes) * Unknown: 2.6 TJ µg/L (4.46 minutes) Unknown: 40 TJ µg/L (5.21 minutes) Column Bleed: 2.5 TJ µg/L (6.25 minutes) Column Bleed: 3.6 TJ µg/L (7.20 minutes) Unknown: 5.2 TJ µg/L (8.17 minutes)
* In some cases (as indicated), two adjacent sample TIC peaks were listed based on a single TIC detection in the associated method blank, due to very similar retention times and very similar mass spectra, based on professional judgment.		

QUALIFIED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16D Lab Sample ID: 480-185211-2

Matrix: Water Lab File ID: T3833.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:35

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	2.1		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16D Lab Sample ID: 480-185211-2

Matrix: Water Lab File ID: T3833.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:35

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.28	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	~~ND~~	UJ	1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~*+~~ UJ	1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	83		73-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16D Lab Sample ID: 480-185211-2

Matrix: Water Lab File ID: T3833.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:35

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-11 Lab Sample ID: 480-185211-3

Matrix: Water Lab File ID: T3834.D

Analysis Method: 8260C Date Collected: 05/24/2021 14:10

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:22

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-11 Lab Sample ID: 480-185211-3

Matrix: Water Lab File ID: T3834.D

Analysis Method: 8260C Date Collected: 05/24/2021 14:10

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:22

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	~~ND~~	UJ	2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~*+~~ UJ	2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	93		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-11 Lab Sample ID: 480-185211-3

Matrix: Water Lab File ID: T3834.D

Analysis Method: 8260C Date Collected: 05/24/2021 14:10

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:22

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-31 Lab Sample ID: 480-185211-4

Matrix: Water Lab File ID: T3835.D

Analysis Method: 8260C Date Collected: 05/24/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:45

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-31 Lab Sample ID: 480-185211-4

Matrix: Water Lab File ID: T3835.D

Analysis Method: 8260C Date Collected: 05/24/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:45

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	~~ND~~	UJ	2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~*+~~ UJ	2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-31 Lab Sample ID: 480-185211-4

Matrix: Water Lab File ID: T3835.D

Analysis Method: 8260C Date Collected: 05/24/2021 15:25

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 15:45

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-30 Lab Sample ID: 480-185211-6

Matrix: Water Lab File ID: T3836.D

Analysis Method: 8260C Date Collected: 05/25/2021 11:30

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	2.1		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	2.6		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-30 Lab Sample ID: 480-185211-6

Matrix: Water Lab File ID: T3836.D

Analysis Method: 8260C Date Collected: 05/25/2021 11:30

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	13		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	~~ND~~	UJ	1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~*+~~ UJ	1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	14		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	96		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-30 Lab Sample ID: 480-185211-6

Matrix: Water Lab File ID: T3836.D

Analysis Method: 8260C Date Collected: 05/25/2021 11:30

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 4 TIC Result Total: 24

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
2815-58-9	Cyclopentane, 1,2,4-trimethyl-	5.34	6.3	T J N	87%
	Unknown	5.70	3.4	T J	
179601-23-1	m-Xylene & p-Xylene	7.27	7.8		99%
95-47-6	o-Xylene	7.59	6.5		97%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-19D Lab Sample ID: 480-185211-11

Matrix: Water Lab File ID: T3837.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	12		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-19D Lab Sample ID: 480-185211-11

Matrix: Water Lab File ID: T3837.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.29	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	~~ND~~	UJ	1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~**~~ UJ	1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	81		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-19D Lab Sample ID: 480-185211-11

Matrix: Water Lab File ID: T3837.D

Analysis Method: 8260C Date Collected: 05/24/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Matrix: Water Lab File ID: T3838.D

Analysis Method: 8260C Date Collected: 05/24/2021 13:55

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:52

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Matrix: Water Lab File ID: T3838.D

Analysis Method: 8260C Date Collected: 05/24/2021 13:55

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:52

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	~~ND~~	UJ	2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	~~ND~~	~~*+~~ UJ	2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	94		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Matrix: Water Lab File ID: T3838.D

Analysis Method: 8260C Date Collected: 05/24/2021 13:55

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 16:52

Soil Aliquot Vol: Dilution Factor: 2

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: T3839.D

Analysis Method: 8260C Date Collected: 05/25/2021 14:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 17:14

Soil Aliquot Vol: Dilution Factor: 8

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane	ND		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	57	J	80	24
71-43-2	Benzene	ND		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	ND		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	~~ND~~	UJ	8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
98-82-8	Isopropylbenzene	ND		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: T3839.D

Analysis Method: 8260C Date Collected: 05/25/2021 14:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 17:14

Soil Aliquot Vol: Dilution Factor: 8

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		20	10
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	~~ND~~	UJ	8.0	5.8
127-18-4	Tetrachloroethene	ND		8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	~~ND~~ *+	UJ	8.0	3.0
79-01-6	Trichloroethene	ND		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	ND		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: T3839.D

Analysis Method: 8260C Date Collected: 05/25/2021 14:00

Sample wt/vol: 5(mL) Date Analyzed: 06/02/2021 17:14

Soil Aliquot Vol: Dilution Factor: 8

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 583546 Units: ug/L

Number TICs Found: 1 TIC Result Total: 150

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
1066-40-6	Silanol, trimethyl-	3.98	150	T J N	91%

FORM I-TIC 8260C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-23 | Lab Sample ID: 480-185211-5

Matrix: Water | Lab File ID: Y02822341.D

Analysis Method: 8270D | Date Collected: 05/25/2021 09:40

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2021 08:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	~~ND~~	UJ	10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
95-48-7	2-Methylphenol	ND		5.0	0.40
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo[a]anthracene	ND		5.0	0.36
50-32-8	Benzo[a]pyrene	ND		5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-23 | Lab Sample ID: 480-185211-5

Matrix: Water | Lab File ID: Y02822341.D

Analysis Method: 8270D | Date Collected: 05/25/2021 09:40

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2021 08:12

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	~~ND~~	UJ	5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	~~ND~~	UJ	10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-23 Lab Sample ID: 480-185211-5

Matrix: Water Lab File ID: Y02822341.D

Analysis Method: 8270D Date Collected: 05/25/2021 09:40

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 08:12

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

Number TICs Found: 9 TIC Result Total: 314.1

X: Do Not Report

	CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
X		Unknown	3.33	4.6	T J	
X		Unknown	3.43	250	T J	
X		Unknown	3.67	3.3	T J	
X	142-82-5	Heptane	3.69	11	T J N	91%
X		Unknown	4.45	2.6	T J	
		Unknown	4.59	2.0	T J	
X		Unknown	5.20	36	T J	
X		Column Bleed	6.25	1.8	T J	
X		Column Bleed	7.20	2.8	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-18 Lab Sample ID: 480-185211-8

Matrix: Water Lab File ID: Y02822342.D

Analysis Method: 8270D Date Collected: 05/25/2021 14:30

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 08:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	~~ND~~	UJ	10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
95-48-7	2-Methylphenol	ND		5.0	0.40
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo[a]anthracene	ND		5.0	0.36
50-32-8	Benzo[a]pyrene	ND		5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-18 | Lab Sample ID: 480-185211-8

Matrix: Water | Lab File ID: Y02822342.D

Analysis Method: 8270D | Date Collected: 05/25/2021 14:30

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2021 08:39

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	~~ND~~	UJ	5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	~~ND~~	UJ	10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-18 Lab Sample ID: 480-185211-8

Matrix: Water Lab File ID: Y02822342.D

Analysis Method: 8270D Date Collected: 05/25/2021 14:30

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 08:39

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

Number TICs Found: 11 TIC Result Total: 338

X: Do Not Report

	CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
X		~~Unknown~~	~~3.33~~	~~5.8~~	~~T J~~	
X		~~Unknown~~	~~3.43~~	~~270~~	~~T J~~	
X	~~142-82-5~~	~~Heptane~~	~~3.67~~	~~3.5~~	~~T J N~~	~~90%~~
X		~~Unknown~~	~~4.45~~	~~2.8~~	~~T J~~	
		Unknown	4.60	2.8	T J	
X		~~Unknown~~	~~5.20~~	~~37~~	~~T J~~	
X		~~Column Bleed~~	~~6.25~~	~~2.2~~	~~T J~~	
X		~~Column Bleed~~	~~7.20~~	~~3.8~~	~~T J~~	
		Unknown	7.93	2.9	T J	
		Unknown	8.08	1.6	T J	
X		~~Unknown~~	~~8.16~~	~~5.6~~	~~T J~~	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15 | Lab Sample ID: 480-185211-9

Matrix: Water | Lab File ID: Y02822320.D

Analysis Method: 8270D | Date Collected: 05/25/2021 11:15

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/28/2021 22:40

Con. Extract Vol.: 1(mL) | Dilution Factor: 5

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583187 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	ND		25	2.5
51-28-5	2,4-Dinitrophenol	~~ND~~	UJ	50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
95-48-7	2-Methylphenol	ND		25	2.0
91-57-6	2-Methylnaphthalene	ND		25	3.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	~~ND~~	UJ	50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	ND		50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND		50	7.6
83-32-9	Acenaphthene	ND		25	2.1
208-96-8	Acenaphthylene	ND		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	ND		25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3
56-55-3	Benzo[a]anthracene	ND		25	1.8
50-32-8	Benzo[a]pyrene	ND		25	2.4
205-99-2	Benzo[b]fluoranthene	ND		25	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15 Lab Sample ID: 480-185211-9

Matrix: Water Lab File ID: Y02822320.D

Analysis Method: 8270D Date Collected: 05/25/2021 11:15

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/28/2021 22:40

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583187 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		25	1.8
207-08-9	Benzo[k]fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	ND		25	1.5
218-01-9	Chrysene	ND		25	1.7
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
132-64-9	Dibenzofuran	ND		50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	ND		25	2.0
86-73-7	Fluorene	ND		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	ND		25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno[1,2,3-cd]pyrene	ND		25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	Naphthalene	ND		25	3.8
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	ND		50	11
85-01-8	Phenanthrene	ND		25	2.2
108-95-2	Phenol	ND		25	2.0
129-00-0	Pyrene	ND		25	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15 Lab Sample ID: 480-185211-9

Matrix: Water Lab File ID: Y02822320.D

Analysis Method: 8270D Date Collected: 05/25/2021 11:15

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/28/2021 22:40

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583187 Units: ug/L

Number TICs Found: 4 TIC Result Total: 405

X: Do Not Report

	CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
X	110-82-7	Cyclohexane	3.18	50	T J N	94%
X		Unknown	3.35	270	T J	
X	142-82-5	Heptane	3.61	41	T J N	90%
X		Unknown	5.19	44	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: Y02822343.D

Analysis Method: 8270D Date Collected: 05/25/2021 14:00

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 09:06

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		25	3.3
108-60-1	bis (2-chloroisopropyl) ether	ND		25	2.6
95-95-4	2,4,5-Trichlorophenol	ND		25	2.4
88-06-2	2,4,6-Trichlorophenol	ND		25	3.1
120-83-2	2,4-Dichlorophenol	ND		25	2.6
105-67-9	2,4-Dimethylphenol	4.4	J	25	2.5
51-28-5	2,4-Dinitrophenol	~~ND~~	UJ	50	11
121-14-2	2,4-Dinitrotoluene	ND		25	2.2
606-20-2	2,6-Dinitrotoluene	ND		25	2.0
91-58-7	2-Chloronaphthalene	ND		25	2.3
95-57-8	2-Chlorophenol	ND		25	2.7
95-48-7	2-Methylphenol	2.9	J	25	2.0
91-57-6	2-Methylnaphthalene	ND		25	3.0
88-74-4	2-Nitroaniline	ND		50	2.1
88-75-5	2-Nitrophenol	ND		25	2.4
91-94-1	3,3'-Dichlorobenzidine	ND		25	2.0
99-09-2	3-Nitroaniline	ND		50	2.4
534-52-1	4,6-Dinitro-2-methylphenol	ND		50	11
101-55-3	4-Bromophenyl phenyl ether	ND		25	2.3
59-50-7	4-Chloro-3-methylphenol	ND		25	2.3
106-47-8	4-Chloroaniline	ND		25	3.0
7005-72-3	4-Chlorophenyl phenyl ether	ND		25	1.8
106-44-5	4-Methylphenol	9.6	J	50	1.8
100-01-6	4-Nitroaniline	ND		50	1.3
100-02-7	4-Nitrophenol	ND		50	7.6
83-32-9	Acenaphthene	ND		25	2.1
208-96-8	Acenaphthylene	ND		25	1.9
98-86-2	Acetophenone	ND		25	2.7
120-12-7	Anthracene	ND		25	1.4
1912-24-9	Atrazine	ND		25	2.3
100-52-7	Benzaldehyde	ND		25	1.3
56-55-3	Benzo[a]anthracene	ND		25	1.8
50-32-8	Benzo[a]pyrene	ND		25	2.4
205-99-2	Benzo[b]fluoranthene	ND		25	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: Y02822343.D

Analysis Method: 8270D Date Collected: 05/25/2021 14:00

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 09:06

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		25	1.8
207-08-9	Benzo[k]fluoranthene	ND		25	3.7
111-91-1	Bis(2-chloroethoxy)methane	ND		25	1.8
111-44-4	Bis(2-chloroethyl)ether	ND		25	2.0
117-81-7	Bis(2-ethylhexyl) phthalate	ND		25	11
85-68-7	Butyl benzyl phthalate	ND		25	5.0
105-60-2	Caprolactam	ND		25	11
86-74-8	Carbazole	ND		25	1.5
218-01-9	Chrysene	ND		25	1.7
53-70-3	Dibenz(a,h)anthracene	ND		25	2.1
84-74-2	Di-n-butyl phthalate	ND		25	1.6
117-84-0	Di-n-octyl phthalate	ND		25	2.4
132-64-9	Dibenzofuran	ND		50	2.6
84-66-2	Diethyl phthalate	ND		25	1.1
131-11-3	Dimethyl phthalate	ND		25	1.8
206-44-0	Fluoranthene	ND		25	2.0
86-73-7	Fluorene	ND		25	1.8
118-74-1	Hexachlorobenzene	ND		25	2.6
87-68-3	Hexachlorobutadiene	ND		25	3.4
77-47-4	Hexachlorocyclopentadiene	~~ND~~	UJ	25	3.0
67-72-1	Hexachloroethane	ND		25	3.0
193-39-5	Indeno[1,2,3-cd]pyrene	ND		25	2.4
78-59-1	Isophorone	ND		25	2.2
621-64-7	N-Nitrosodi-n-propylamine	ND		25	2.7
86-30-6	N-Nitrosodiphenylamine	ND		25	2.6
91-20-3	Naphthalene	ND		25	3.8
98-95-3	Nitrobenzene	ND		25	1.5
87-86-5	Pentachlorophenol	~~ND~~	UJ	50	11
85-01-8	Phenanthrene	ND		25	2.2
108-95-2	Phenol	ND		25	2.0
129-00-0	Pyrene	ND		25	1.7

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: Y02822343.D

Analysis Method: 8270D Date Collected: 05/25/2021 14:00

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 09:06

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

Number TICs Found: 20 TIC Result Total: 1157

X: Do Not Report

	CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
X	~~110-82-7~~	~~Cyclohexane~~	~~3.18~~	~~38~~	~~T J N~~	~~94%~~
X		~~Unknown~~	~~3.35~~	~~200~~	~~T J~~	
X	~~142-82-5~~	~~Heptane~~	~~3.61~~	~~32~~	~~T J N~~	~~90%~~
X		~~Unknown~~	~~5.19~~	~~26~~	~~T J~~	
	576-26-1	Phenol, 2,6-dimethyl-	7.19	36	T J N	98%
		Unknown	7.56	28	T J	
		Unknown	7.67	27	T J	
		Unknown	7.89	47	T J	
		Unknown	7.98	35	T J	
	492-37-5	Benzeneacetic acid, .alpha.-methyl-	8.15	27	T J N	93%
	622-47-9	p-Tolylacetic acid	8.38	66	T J N	89%
		Unknown	8.42	180	T J	
	632-46-2	Benzoic acid, 2,6-dimethyl-	8.46	84	T J N	87%
	619-04-5	Benzoic acid, 3,4-dimethyl-	8.51	80	T J N	89%
	610-72-0	Benzoic acid, 2,5-dimethyl-	8.55	59	T J N	98%
		Unknown	8.58	31	T J	
	499-06-9	Benzoic acid, 3,5-dimethyl-	8.69	37	T J N	91%
		Unknown	8.86	43	T J	
		Unknown	8.96	23	T J	
	86-55-5	1-Naphthalenecarboxylic acid	9.98	58	T J N	91%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-185211-15

Matrix: Water | Lab File ID: Y02822344.D

Analysis Method: 8270D | Date Collected: 05/25/2021 16:00

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2021 09:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	Biphenyl	ND		5.0	0.65
108-60-1	bis (2-chloroisopropyl) ether	ND		5.0	0.52
95-95-4	2,4,5-Trichlorophenol	ND		5.0	0.48
88-06-2	2,4,6-Trichlorophenol	ND		5.0	0.61
120-83-2	2,4-Dichlorophenol	ND		5.0	0.51
105-67-9	2,4-Dimethylphenol	ND		5.0	0.50
51-28-5	2,4-Dinitrophenol	~~ND~~	UJ	10	2.2
121-14-2	2,4-Dinitrotoluene	ND		5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND		5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	ND		5.0	0.53
95-48-7	2-Methylphenol	ND		5.0	0.40
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
88-74-4	2-Nitroaniline	ND		10	0.42
88-75-5	2-Nitrophenol	ND		5.0	0.48
91-94-1	3,3'-Dichlorobenzidine	ND		5.0	0.40
99-09-2	3-Nitroaniline	ND		10	0.48
534-52-1	4,6-Dinitro-2-methylphenol	ND		10	2.2
101-55-3	4-Bromophenyl phenyl ether	ND		5.0	0.45
59-50-7	4-Chloro-3-methylphenol	ND		5.0	0.45
106-47-8	4-Chloroaniline	ND		5.0	0.59
7005-72-3	4-Chlorophenyl phenyl ether	ND		5.0	0.35
106-44-5	4-Methylphenol	ND		10	0.36
100-01-6	4-Nitroaniline	ND		10	0.25
100-02-7	4-Nitrophenol	ND		10	1.5
83-32-9	Acenaphthene	ND		5.0	0.41
208-96-8	Acenaphthylene	ND		5.0	0.38
98-86-2	Acetophenone	ND		5.0	0.54
120-12-7	Anthracene	ND		5.0	0.28
1912-24-9	Atrazine	ND		5.0	0.46
100-52-7	Benzaldehyde	ND		5.0	0.27
56-55-3	Benzo[a]anthracene	ND		5.0	0.36
50-32-8	Benzo[a]pyrene	ND		5.0	0.47
205-99-2	Benzo[b]fluoranthene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-185211-1

SDG No.:

Client Sample ID: DUP | Lab Sample ID: 480-185211-15

Matrix: Water | Lab File ID: Y02822344.D

Analysis Method: 8270D | Date Collected: 05/25/2021 16:00

Extract. Method: 3510C | Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2021 09:34

Con. Extract Vol.: 1(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73
111-91-1	Bis(2-chloroethoxy)methane	ND		5.0	0.35
111-44-4	Bis(2-chloroethyl)ether	ND		5.0	0.40
117-81-7	Bis(2-ethylhexyl) phthalate	ND		5.0	2.2
85-68-7	Butyl benzyl phthalate	ND		5.0	1.0
105-60-2	Caprolactam	ND		5.0	2.2
86-74-8	Carbazole	ND		5.0	0.30
218-01-9	Chrysene	ND		5.0	0.33
53-70-3	Dibenz(a,h)anthracene	ND		5.0	0.42
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	ND		5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
206-44-0	Fluoranthene	ND		5.0	0.40
86-73-7	Fluorene	ND		5.0	0.36
118-74-1	Hexachlorobenzene	ND		5.0	0.51
87-68-3	Hexachlorobutadiene	ND		5.0	0.68
77-47-4	Hexachlorocyclopentadiene	~~ND~~	UJ	5.0	0.59
67-72-1	Hexachloroethane	ND		5.0	0.59
193-39-5	Indeno[1,2,3-cd]pyrene	ND		5.0	0.47
78-59-1	Isophorone	ND		5.0	0.43
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
87-86-5	Pentachlorophenol	~~ND~~	UJ	10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	ND		5.0	0.39
129-00-0	Pyrene	ND		5.0	0.34

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-185211-15

Matrix: Water Lab File ID: Y02822344.D

Analysis Method: 8270D Date Collected: 05/25/2021 16:00

Extract. Method: 3510C Date Extracted: 05/27/2021 14:39

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2021 09:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 2(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583198 Units: ug/L

Number TICs Found: 12 TIC Result Total: 332.2

X: Do Not Report

	CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
X		~~Unknown~~	~~3.33~~	~~2.0~~	~~T J~~	
X		~~Unknown~~	~~3.43~~	~~250~~	~~T J~~	
X		~~Unknown~~	~~3.67~~	~~3.6~~	~~T J~~	
X		~~Unknown~~	~~3.69~~	~~11~~	~~T J~~	
X		~~Unknown~~	~~4.46~~	~~2.6~~	~~T J~~	
	107-92-6	Butanoic acid	4.65	7.3	T J N	86%
X		~~Unknown~~	~~5.21~~	~~40~~	~~T J~~	
		Unknown	6.23	2.4	T J	
X		~~Column Bleed~~	~~6.25~~	~~2.0~~	~~T J~~	
X		~~Column Bleed~~	~~7.20~~	~~3.6~~	~~T J~~	
		Unknown	7.93	2.5	T J	
X		~~Unknown~~	~~8.17~~	~~5.2~~	~~T J~~	

FORM I-TIC 8270D

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16 Lab Sample ID: 480-185211-1

Matrix: Water Lab File ID: 25_47-022.D

Analysis Method: 8081B Date Collected: 05/24/2021 11:30

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 240(mL) Date Analyzed: 05/28/2021 13:07

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.052	0.0096
72-55-9	4,4'-DDE	ND		0.052	0.012
50-29-3	4,4'-DDT	ND		0.052	0.011
309-00-2	Aldrin	ND		0.052	0.0084
319-84-6	alpha-BHC	ND		0.052	0.0080
5103-71-9	cis-Chlordane	ND		0.052	0.015
319-85-7	beta-BHC	ND		0.052	0.026
319-86-8	delta-BHC	ND		0.052	0.010
60-57-1	Dieldrin	ND		0.052	0.010
959-98-8	Endosulfan I	ND		0.052	0.011
33213-65-9	Endosulfan II	ND		0.052	0.013
1031-07-8	Endosulfan sulfate	ND		0.052	0.016
72-20-8	Endrin	ND		0.052	0.014
7421-93-4	Endrin aldehyde	ND		0.052	0.017
53494-70-5	Endrin ketone	ND		0.052	0.013
58-89-9	gamma-BHC (Lindane)	ND		0.052	0.0083
5103-74-2	trans-Chlordane	ND		0.052	0.011
76-44-8	Heptachlor	ND		0.052	0.0089
1024-57-3	Heptachlor epoxide	ND		0.052	0.0077
72-43-5	Methoxychlor	ND		0.052	0.015
8001-35-2	Toxaphene	ND		0.52	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	72		20-120
877-09-8	Tetrachloro-m-xylene	67		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-11 Lab Sample ID: 480-185211-3

Matrix: Water Lab File ID: 25_47-023.D

Analysis Method: 8081B Date Collected: 05/24/2021 14:10

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 250(mL) Date Analyzed: 05/28/2021 13:26

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.050	0.0092
72-55-9	4,4'-DDE	ND		0.050	0.012
50-29-3	4,4'-DDT	ND		0.050	0.011
309-00-2	Aldrin	ND		0.050	0.0081
319-84-6	alpha-BHC	ND		0.050	0.0077
5103-71-9	cis-Chlordane	ND		0.050	0.015
319-85-7	beta-BHC	ND		0.050	0.025
319-86-8	delta-BHC	ND		0.050	0.010
60-57-1	Dieldrin	ND		0.050	0.0098
959-98-8	Endosulfan I	ND		0.050	0.011
33213-65-9	Endosulfan II	ND		0.050	0.012
1031-07-8	Endosulfan sulfate	ND		0.050	0.016
72-20-8	Endrin	ND		0.050	0.014
7421-93-4	Endrin aldehyde	ND		0.050	0.016
53494-70-5	Endrin ketone	ND		0.050	0.012
58-89-9	gamma-BHC (Lindane)	ND		0.050	0.0080
5103-74-2	trans-Chlordane	ND		0.050	0.011
76-44-8	Heptachlor	ND		0.050	0.0085
1024-57-3	Heptachlor epoxide	ND		0.050	0.0074
72-43-5	Methoxychlor	ND		0.050	0.014
8001-35-2	Toxaphene	ND		0.50	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	58		20-120
877-09-8	Tetrachloro-m-xylene	76		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15 Lab Sample ID: 480-185211-9

Matrix: Water Lab File ID: 25_47-017.D

Analysis Method: 8081B Date Collected: 05/25/2021 11:15

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 210(mL) Date Analyzed: 05/28/2021 11:28

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.060	0.011
72-55-9	4,4'-DDE	ND		0.060	0.014
50-29-3	4,4'-DDT	ND		0.060	0.013
309-00-2	Aldrin	ND		0.060	0.0096
319-84-6	alpha-BHC	ND		0.060	0.0092
5103-71-9	cis-Chlordane	ND		0.060	0.018
319-85-7	beta-BHC	ND		0.060	0.030
319-86-8	delta-BHC	ND		0.060	0.012
60-57-1	Dieldrin	ND		0.060	0.012
959-98-8	Endosulfan I	ND		0.060	0.013
33213-65-9	Endosulfan II	ND		0.060	0.014
1031-07-8	Endosulfan sulfate	ND		0.060	0.019
72-20-8	Endrin	ND		0.060	0.016
7421-93-4	Endrin aldehyde	ND	~~F2 F1~~	0.060	0.019
53494-70-5	Endrin ketone	ND		0.060	0.014
58-89-9	gamma-BHC (Lindane)	ND		0.060	0.0095
5103-74-2	trans-Chlordane	ND		0.060	0.013
76-44-8	Heptachlor	ND		0.060	0.010
1024-57-3	Heptachlor epoxide	ND		0.060	0.0088
72-43-5	Methoxychlor	ND		0.060	0.017
8001-35-2	Toxaphene	ND		0.60	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	64		20-120
877-09-8	Tetrachloro-m-xylene	79		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15D Lab Sample ID: 480-185211-10

Matrix: Water Lab File ID: 25_47-024.D

Analysis Method: 8081B Date Collected: 05/25/2021 12:30

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 210(mL) Date Analyzed: 05/28/2021 13:46

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.060	0.011
72-55-9	4,4'-DDE	ND		0.060	0.014
50-29-3	4,4'-DDT	ND		0.060	0.013
309-00-2	Aldrin	ND		0.060	0.0096
319-84-6	alpha-BHC	ND		0.060	0.0092
5103-71-9	cis-Chlordane	ND		0.060	0.018
319-85-7	beta-BHC	ND		0.060	0.030
319-86-8	delta-BHC	ND		0.060	0.012
60-57-1	Dieldrin	ND		0.060	0.012
959-98-8	Endosulfan I	ND		0.060	0.013
33213-65-9	Endosulfan II	ND		0.060	0.014
1031-07-8	Endosulfan sulfate	ND		0.060	0.019
72-20-8	Endrin	ND		0.060	0.016
7421-93-4	Endrin aldehyde	ND		0.060	0.019
53494-70-5	Endrin ketone	ND		0.060	0.014
58-89-9	gamma-BHC (Lindane)	ND		0.060	0.0095
5103-74-2	trans-Chlordane	ND		0.060	0.013
76-44-8	Heptachlor	ND		0.060	0.010
1024-57-3	Heptachlor epoxide	ND		0.060	0.0088
72-43-5	Methoxychlor	ND		0.060	0.017
8001-35-2	Toxaphene	ND		0.60	0.14

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	74		20-120
877-09-8	Tetrachloro-m-xylene	88		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-32 Lab Sample ID: 480-185211-13

Matrix: Water Lab File ID: 25_47-025.D

Analysis Method: 8081B Date Collected: 05/24/2021 15:00

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 230(mL) Date Analyzed: 05/28/2021 14:06

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.054	0.010
72-55-9	4,4'-DDE	ND		0.054	0.013
50-29-3	4,4'-DDT	ND		0.054	0.012
309-00-2	Aldrin	ND		0.054	0.0088
319-84-6	alpha-BHC	ND		0.054	0.0084
5103-71-9	cis-Chlordane	ND		0.054	0.016
319-85-7	beta-BHC	ND		0.054	0.027
319-86-8	delta-BHC	ND		0.054	0.011
60-57-1	Dieldrin	ND		0.054	0.011
959-98-8	Endosulfan I	ND		0.054	0.012
33213-65-9	Endosulfan II	ND		0.054	0.013
1031-07-8	Endosulfan sulfate	ND		0.054	0.017
72-20-8	Endrin	ND		0.054	0.015
7421-93-4	Endrin aldehyde	ND		0.054	0.018
53494-70-5	Endrin ketone	ND		0.054	0.013
58-89-9	gamma-BHC (Lindane)	ND		0.054	0.0087
5103-74-2	trans-Chlordane	ND		0.054	0.012
76-44-8	Heptachlor	ND		0.054	0.0092
1024-57-3	Heptachlor epoxide	ND		0.054	0.0080
72-43-5	Methoxychlor	ND		0.054	0.015
8001-35-2	Toxaphene	ND		0.54	0.13

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		20-120
877-09-8	Tetrachloro-m-xylene	79		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: 25_47-040.D

Analysis Method: 8081B Date Collected: 05/25/2021 14:00

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 200(mL) Date Analyzed: 06/01/2021 09:55

Con. Extract Vol.: 2(mL) Dilution Factor: 5

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583366 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.31	0.058
72-55-9	4,4'-DDE	ND		0.31	0.073
50-29-3	4,4'-DDT	ND		0.31	0.069
309-00-2	Aldrin	ND		0.31	0.051
319-84-6	alpha-BHC	ND		0.31	0.048
5103-71-9	cis-Chlordane	ND		0.31	0.093
319-85-7	beta-BHC	ND		0.31	0.16
319-86-8	delta-BHC	ND		0.31	0.063
60-57-1	Dieldrin	ND		0.31	0.061
959-98-8	Endosulfan I	ND		0.31	0.069
33213-65-9	Endosulfan II	ND		0.31	0.075
1031-07-8	Endosulfan sulfate	ND		0.31	0.098
72-20-8	Endrin	ND		0.31	0.086
7421-93-4	Endrin aldehyde	ND		0.31	0.10
53494-70-5	Endrin ketone	ND		0.31	0.075
58-89-9	gamma-BHC (Lindane)	ND		0.31	0.050
5103-74-2	trans-Chlordane	ND		0.31	0.069
76-44-8	Heptachlor	ND		0.31	0.053
1024-57-3	Heptachlor epoxide	ND		0.31	0.046
72-43-5	Methoxychlor	ND		0.31	0.088
8001-35-2	Toxaphene	ND		3.1	0.75

R

R

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	0	S1-	20-120
877-09-8	Tetrachloro-m-xylene	64		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-185211-15

Matrix: Water Lab File ID: 25_47-027.D

Analysis Method: 8081B Date Collected: 05/25/2021 16:00

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 200(mL) Date Analyzed: 05/28/2021 14:45

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.063	0.012
72-55-9	4,4'-DDE	ND		0.063	0.015
50-29-3	4,4'-DDT	ND		0.063	0.014
309-00-2	Aldrin	ND		0.063	0.010
319-84-6	alpha-BHC	ND		0.063	0.0096
5103-71-9	cis-Chlordane	ND		0.063	0.019
319-85-7	beta-BHC	ND		0.063	0.031
319-86-8	delta-BHC	ND		0.063	0.013
60-57-1	Dieldrin	ND		0.063	0.012
959-98-8	Endosulfan I	ND		0.063	0.014
33213-65-9	Endosulfan II	ND		0.063	0.015
1031-07-8	Endosulfan sulfate	ND		0.063	0.020
72-20-8	Endrin	ND		0.063	0.017
7421-93-4	Endrin aldehyde	ND		0.063	0.020
53494-70-5	Endrin ketone	ND		0.063	0.015
58-89-9	gamma-BHC (Lindane)	ND		0.063	0.010
5103-74-2	trans-Chlordane	ND		0.063	0.014
76-44-8	Heptachlor	ND		0.063	0.011
1024-57-3	Heptachlor epoxide	ND		0.063	0.0093
72-43-5	Methoxychlor	ND		0.063	0.018
8001-35-2	Toxaphene	ND		0.63	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	47		20-120
877-09-8	Tetrachloro-m-xylene	69		44-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16 Lab Sample ID: 480-185211-1

Matrix: Water Lab File ID: 7_99-112.D

Analysis Method: 8082A Date Collected: 05/24/2021 11:30

Extraction Method: 3510C Date Extracted: 05/28/2021 14:33

Sample wt/vol: 250(mL) Date Analyzed: 06/01/2021 16:40

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583452 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	83		39-121
2051-24-3	DCB Decachlorobiphenyl	52		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15 Lab Sample ID: 480-185211-9

Matrix: Water Lab File ID: 7_99-107.D

Analysis Method: 8082A Date Collected: 05/25/2021 11:15

Extraction Method: 3510C Date Extracted: 05/28/2021 14:33

Sample wt/vol: 250(mL) Date Analyzed: 06/01/2021 15:36

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583452 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	79		39-121
2051-24-3	DCB Decachlorobiphenyl	41		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-15D Lab Sample ID: 480-185211-10

Matrix: Water Lab File ID: 7_99-113.D

Analysis Method: 8082A Date Collected: 05/25/2021 12:30

Extraction Method: 3510C Date Extracted: 05/28/2021 14:33

Sample wt/vol: 250(mL) Date Analyzed: 06/01/2021 16:53

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583452 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	78		39-121
2051-24-3	DCB Decachlorobiphenyl	59		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: 7_99-114.D

Analysis Method: 8082A Date Collected: 05/25/2021 14:00

Extraction Method: 3510C Date Extracted: 05/28/2021 14:33

Sample wt/vol: 250(mL) Date Analyzed: 06/01/2021 17:06

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583452 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	46		39-121
2051-24-3	DCB Decachlorobiphenyl	22		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-185211-15

Matrix: Water Lab File ID: 7_99-115.D

Analysis Method: 8082A Date Collected: 05/25/2021 16:00

Extraction Method: 3510C Date Extracted: 05/28/2021 14:33

Sample wt/vol: 250(mL) Date Analyzed: 06/01/2021 17:19

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583452 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		0.50	0.18
11104-28-2	PCB-1221	ND		0.50	0.18
11141-16-5	PCB-1232	ND		0.50	0.18
53469-21-9	PCB-1242	ND		0.50	0.18
12672-29-6	PCB-1248	ND		0.50	0.18
11097-69-1	PCB-1254	ND		0.50	0.25
11096-82-5	PCB-1260	ND		0.50	0.25
37324-23-5	PCB-1262	ND		0.50	0.25
11100-14-4	PCB-1268	ND		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	81		39-121
2051-24-3	DCB Decachlorobiphenyl	63		19-120

QC NONCONFORMANCE DOCUMENTATION

FORM VII

GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583546/3 Calibration Date: 06/02/2021 09:38

Instrument ID: HP5975T Calib Start Date: 04/28/2021 17:40

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 04/28/2021 20:16

Lab File ID: T3819.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.325	2.749	0.1000	29.6	25.0	18.2	20.0
1,2-Dichloropropane	Ave	1.541	1.828	0.1000	29.7	25.0	18.6	20.0
Dibromomethane	Ave	1.037	1.106	0.1000	26.7	25.0	6.6	20.0
1,4-Dioxane	Ave	0.0051	0.0058		571	500	14.2	50.0
Bromodichloromethane	Ave	1.803	2.045	0.2000	28.4	25.0	13.4	20.0
2-Chloroethyl vinyl ether	Ave	0.9355	1.061		28.4	25.0	13.4	20.0
cis-1,3-Dichloropropene	Ave	1.982	2.424	0.2000	30.6	25.0	22.3*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7285	0.7153	0.1000	123	125	-1.8	20.0
Toluene	Ave	0.8962	1.062	0.4000	29.6	25.0	18.5	20.0
trans-1,3-Dichloropropene	Ave	0.4719	0.5729	0.1000	30.3	25.0	21.4*	20.0
Ethyl methacrylate	Ave	0.4757	0.5178		27.2	25.0	8.8	20.0
1,1,2-Trichloroethane	Ave	0.2937	0.3276	0.1000	27.9	25.0	11.5	20.0
Tetrachloroethene	Ave	0.3814	0.4228	0.2000	27.7	25.0	10.9	20.0
1,3-Dichloropropane	Ave	0.5879	0.6903		29.4	25.0	17.4	20.0
2-Hexanone	Ave	0.4645	0.5152	0.1000	139	125	10.9	20.0
Dibromochloromethane	Ave	0.3559	0.3929	0.1000	27.6	25.0	10.4	20.0
1,2-Dibromoethane	Ave	0.3725	0.3803		25.5	25.0	2.1	20.0
Chlorobenzene	Ave	1.044	1.150	0.5000	27.6	25.0	10.2	20.0
Ethylbenzene	Ave	1.708	1.956	0.1000	28.6	25.0	14.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3689	0.3770		25.6	25.0	2.2	20.0
m-Xylene & p-Xylene	Ave	0.6500	0.7599	0.1000	29.2	25.0	16.9	20.0
o-Xylene	Ave	0.6611	0.7387	0.3000	27.9	25.0	11.7	20.0
Styrene	Ave	1.046	1.258	0.3000	30.1	25.0	20.3*	20.0
Bromoform	Ave	0.2304	0.2217	0.1000	24.1	25.0	-3.8	50.0
Isopropylbenzene	Ave	3.168	3.753	0.1000	29.6	25.0	18.5	20.0
Bromobenzene	Ave	0.8027	0.8767		27.3	25.0	9.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.020	1.088	0.3000	26.7	25.0	6.7	20.0
N-Propylbenzene	Ave	3.736	4.482		30.0	25.0	20.0	20.0
1,2,3-Trichloropropane	Ave	0.3498	0.3199		22.9	25.0	-8.6	20.0
~~trans-1,4-Dichloro-2-butene~~	Ave	0.2228	0.3582		40.2	25.0	~~60.8~~*	50.0
2-Chlorotoluene	Ave	0.8038	0.8954		27.8	25.0	11.4	20.0
1,3,5-Trimethylbenzene	Ave	2.677	3.155		29.5	25.0	17.9	20.0
~~4-Chlorotoluene~~	Ave	2.300	2.768		30.1	25.0	~~20.3~~*	20.0
tert-Butylbenzene	Ave	0.6104	0.6706		27.5	25.0	9.9	20.0
1,2,4-Trimethylbenzene	Ave	2.786	3.224		28.9	25.0	15.7	20.0
sec-Butylbenzene	Ave	3.477	4.002		28.8	25.0	15.1	20.0
4-Isopropyltoluene	Ave	3.020	3.493		28.9	25.0	15.7	20.0
1,3-Dichlorobenzene	Ave	1.553	1.718	0.6000	27.6	25.0	10.6	20.0
1,4-Dichlorobenzene	Ave	1.621	1.768	0.5000	27.3	25.0	9.1	20.0
n-Butylbenzene	Ave	2.780	3.278		29.5	25.0	17.9	20.0
1,2-Dichlorobenzene	Ave	1.630	1.710	0.4000	26.2	25.0	4.9	20.0

FORM VII

GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583187/3 Calibration Date: 05/28/2021 15:51

Instrument ID: HP5973Y Calib Start Date: 05/18/2021 10:51

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 05/18/2021 14:01

Lab File ID: Y02822305.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.507	1.522	0.0100	4040	4000	1.0	20.0
2-Chloronaphthalene	Ave	1.167	1.188	0.8000	4070	4000	1.8	20.0
2-Nitroaniline	Ave	0.3558	0.3966	0.0100	4460	4000	11.5	20.0
Dimethyl phthalate	Ave	1.285	1.378	0.0100	4290	4000	7.3	20.0
1,3-Dinitrobenzene	Lin2		0.1273	0.0100	4270	4000	6.7	20.0
2,6-Dinitrotoluene	Ave	0.3039	0.3328	0.2000	4380	4000	9.5	20.0
Acenaphthylene	Ave	1.705	1.752	0.9000	4110	4000	2.8	20.0
3-Nitroaniline	Ave	0.2846	0.3074	0.0100	4320	4000	8.0	20.0
2,4-Dinitrophenol	Lin2		0.1146	0.0100	5490	8000	-31.4*	20.0
Acenaphthene	Ave	1.229	1.249	0.9000	4070	4000	1.6	20.0
4-Nitrophenol	Lin2		0.2354	0.0100	9190	8000	14.9	20.0
2,4-Dinitrotoluene	Lin2		0.4294	0.2000	4220	4000	5.5	20.0
Dibenzofuran	Ave	1.694	1.754	0.8000	4140	4000	3.5	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3561	0.0100	3890	4000	-2.8	20.0
Hexadecane	Ave	0.8398	0.8412	0.0100	4010	4000	0.2	20.0
Diethyl phthalate	Ave	1.348	1.426	0.0100	4230	4000	5.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.7095	0.7343	0.4000	4140	4000	3.5	20.0
4-Nitroaniline	Lin2		0.3272	0.0100	4280	4000	7.0	20.0
Fluorene	Ave	1.372	1.437	0.9000	4190	4000	4.7	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.0890	0.0100	5930	8000	-25.9*	20.0
Diphenylamine	Ave	0.5871	0.6158	0.0100	3590	3420	4.9	20.0
N-Nitrosodiphenylamine	Ave	0.5020	0.5265	0.0100	4200	4000	4.9	20.0
1,2-Diphenylhydrazine	Ave	0.7373	0.7763	0.0100	4210	4000	5.3	20.0
trans-Azobenzene	Ave	0.7373	0.7763	0.0100	4210	4000	5.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2179	0.2205	0.1000	4050	4000	1.2	20.0
Hexachlorobenzene	Ave	0.2501	0.2598	0.1000	4160	4000	3.9	20.0
Atrazine	Ave	0.3926	0.4351	0.0100	8870	8000	10.8	20.0
n-Octadecane	Ave	0.4492	0.4536	0.0100	4040	4000	1.0	20.0
Pentachlorophenol	Lin2		0.1205	0.0500	6580	8000	-17.8	20.0
Phenanthrene	Ave	1.049	1.076	0.7000	4100	4000	2.5	20.0
Anthracene	Ave	1.057	1.085	0.7000	4110	4000	2.7	20.0
Carbazole	Ave	0.8312	0.8835	0.0100	4250	4000	6.3	20.0
Di-n-butyl phthalate	Ave	1.153	1.190	0.0100	4130	4000	3.2	20.0
Fluoranthene	Ave	1.192	1.258	0.6000	4220	4000	5.5	20.0
Benzidine	Lin2		0.5309	0.0100	8580	8000	7.2	50.0
Pyrene	Ave	1.344	1.340	0.6000	3990	4000	-0.3	20.0
Butyl benzyl phthalate	Ave	0.5649	0.5784	0.0100	4100	4000	2.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8116	0.8369	0.0100	4120	4000	3.1	20.0
3,3'-Dichlorobenzidine	Ave	0.4459	0.4706	0.0100	8440	8000	5.6	50.0
Benzo[a]anthracene	Ave	1.274	1.252	0.8000	3930	4000	-1.7	20.0
Chrysene	Ave	1.222	1.216	0.7000	3980	4000	-0.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583198/3 Calibration Date: 05/29/2021 06:50

Instrument ID: HP5973Y Calib Start Date: 05/18/2021 10:51

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 05/18/2021 14:01

Lab File ID: Y02822338.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5256	0.5120	0.0100	3900	4000	-2.6	20.0
N-Nitrosodimethylamine	Ave	0.7452	0.8357	0.0100	4490	4000	12.1	50.0
Pyridine	Ave	0.8813	0.8720	0.0100	7920	8000	-1.1	50.0
Benzaldehyde	Ave	1.131	1.170	0.0100	8280	8000	3.5	50.0
Phenol	Ave	1.611	1.601	0.8000	3970	4000	-0.6	20.0
Aniline	Ave	1.986	2.008	0.0100	4040	4000	1.1	20.0
Bis(2-chloroethyl)ether	Ave	1.281	1.285	0.7000	4010	4000	0.3	20.0
2-Chlorophenol	Ave	1.299	1.320	0.8000	4060	4000	1.5	20.0
n-Decane	Ave	1.475	1.450	0.0100	3930	4000	-1.7	20.0
1,3-Dichlorobenzene	Ave	1.493	1.507	0.0100	4040	4000	1.0	20.0
1,4-Dichlorobenzene	Ave	1.524	1.578	0.0100	4140	4000	3.5	20.0
~~Benzyl alcohol~~	Ave	0.8744	0.6822	0.0100	3120	4000	~~-22.0~~*	20.0
1,2-Dichlorobenzene	Ave	1.441	1.484	0.0100	4120	4000	3.0	20.0
2-Methylphenol	Ave	1.218	1.334	0.7000	4380	4000	9.6	20.0
bis (2-chloroisopropyl) ether	Ave	1.842	1.839	0.0100	3990	4000	-0.2	20.0
Indene	Ave	2.241	2.386	0.0100	21300	20000	6.5	20.0
4-Methylphenol	Ave	1.244	1.259	0.6000	4050	4000	1.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.9732	1.000	0.5000	4110	4000	2.7	20.0
Acetophenone	Ave	1.838	1.932	0.0100	4210	4000	5.1	20.0
Hexachloroethane	Ave	0.6239	0.6687	0.3000	4290	4000	7.2	20.0
Nitrobenzene	Ave	0.4237	0.4414	0.2000	4170	4000	4.2	20.0
Isophorone	Ave	0.7290	0.7671	0.4000	4210	4000	5.2	20.0
2,4-Dimethylphenol	Ave	0.3877	0.4029	0.2000	4160	4000	3.9	20.0
2-Nitrophenol	Ave	0.1821	0.1949	0.1000	4280	4000	7.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.4128	0.4175	0.3000	4050	4000	1.1	20.0
Benzoic acid	Lin2		0.2232	0.0100	17300	20000	-13.6	50.0
2,4-Dichlorophenol	Ave	0.3035	0.3057	0.2000	4030	4000	0.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3713	0.3786	0.0100	4080	4000	2.0	20.0
Naphthalene	Ave	1.084	1.095	0.7000	4040	4000	1.0	20.0
4-Chloroaniline	Ave	0.3966	0.4101	0.0100	4140	4000	3.4	20.0
2,6-Dichlorophenol	Ave	0.3001	0.3047	0.0100	4060	4000	1.5	20.0
Hexachlorobutadiene	Ave	0.2461	0.2624	0.0100	4260	4000	6.6	20.0
Caprolactam	Ave	0.0949	0.1031	0.0100	8700	8000	8.7	50.0
4-Chloro-3-methylphenol	Ave	0.3094	0.3262	0.2000	4220	4000	5.4	20.0
2-Methylnaphthalene	Ave	0.7014	0.7113	0.4000	4060	4000	1.4	20.0
1-Methylnaphthalene	Ave	0.6573	0.6756	0.0100	4110	4000	2.8	20.0
Hexachlorocyclopentadiene	Ave	0.4895	0.3874	0.0500	3170	4000	-20.9*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.6741	0.6799	0.0100	4030	4000	0.9	20.0
2,4,6-Trichlorophenol	Ave	0.4348	0.4192	0.2000	3860	4000	-3.6	20.0
2,4,5-Trichlorophenol	Ave	0.4130	0.3876	0.2000	3750	4000	-6.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583198/3 Calibration Date: 05/29/2021 06:50

Instrument ID: HP5973Y Calib Start Date: 05/18/2021 10:51

GC Column: RXI-5Sil MS ID: 0.25(mm) Calib End Date: 05/18/2021 14:01

Lab File ID: Y02822338.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Biphenyl	Ave	1.507	1.522	0.0100	4040	4000	1.0	20.0
2-Chloronaphthalene	Ave	1.167	1.197	0.8000	4100	4000	2.6	20.0
2-Nitroaniline	Ave	0.3558	0.3947	0.0100	4440	4000	10.9	20.0
Dimethyl phthalate	Ave	1.285	1.356	0.0100	4220	4000	5.5	20.0
1,3-Dinitrobenzene	Lin2		0.1295	0.0100	4340	4000	8.5	20.0
2,6-Dinitrotoluene	Ave	0.3039	0.3251	0.2000	4280	4000	7.0	20.0
Acenaphthylene	Ave	1.705	1.773	0.9000	4160	4000	4.0	20.0
3-Nitroaniline	Ave	0.2846	0.3074	0.0100	4320	4000	8.0	20.0
2,4-Dinitrophenol	Lin2		0.1173	0.0100	5610	8000	-29.9*	20.0
Acenaphthene	Ave	1.229	1.237	0.9000	4030	4000	0.7	20.0
4-Nitrophenol	Lin2		0.2348	0.0100	9160	8000	14.6	20.0
2,4-Dinitrotoluene	Lin2		0.4246	0.2000	4170	4000	4.4	20.0
Dibenzofuran	Ave	1.694	1.764	0.8000	4160	4000	4.1	20.0
2,3,4,6-Tetrachlorophenol	Lin2		0.3559	0.0100	3890	4000	-2.8	20.0
Hexadecane	Ave	0.8398	0.8625	0.0100	4110	4000	2.7	20.0
Diethyl phthalate	Ave	1.348	1.434	0.0100	4250	4000	6.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.7095	0.7480	0.4000	4220	4000	5.4	20.0
4-Nitroaniline	Lin2		0.3252	0.0100	4260	4000	6.4	20.0
Fluorene	Ave	1.372	1.432	0.9000	4170	4000	4.3	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1000	0.0100	6610	8000	-17.4	20.0
Diphenylamine	Ave	0.5871	0.5997	0.0100	3490	3420	2.2	20.0
N-Nitrosodiphenylamine	Ave	0.5020	0.5128	0.0100	4090	4000	2.2	20.0
1,2-Diphenylhydrazine	Ave	0.7373	0.7804	0.0100	4230	4000	5.8	20.0
trans-Azobenzene	Ave	0.7373	0.7804	0.0100	4230	4000	5.8	20.0
4-Bromophenyl phenyl ether	Ave	0.2179	0.2266	0.1000	4160	4000	4.0	20.0
Hexachlorobenzene	Ave	0.2501	0.2518	0.1000	4030	4000	0.7	20.0
Atrazine	Ave	0.3926	0.4488	0.0100	9150	8000	14.3	20.0
n-Octadecane	Ave	0.4492	0.4431	0.0100	3950	4000	-1.4	20.0
Pentachlorophenol	Lin2		0.1120	0.0500	6130	8000	-23.4*	20.0
Phenanthrene	Ave	1.049	1.084	0.7000	4130	4000	3.3	20.0
Anthracene	Ave	1.057	1.082	0.7000	4100	4000	2.4	20.0
Carbazole	Ave	0.8312	0.9104	0.0100	4380	4000	9.5	20.0
Di-n-butyl phthalate	Ave	1.153	1.193	0.0100	4140	4000	3.5	20.0
Fluoranthene	Ave	1.192	1.255	0.6000	4210	4000	5.3	20.0
Benzidine	Lin2		0.4736	0.0100	7630	8000	-4.6	50.0
Pyrene	Ave	1.344	1.348	0.6000	4010	4000	0.3	20.0
Butyl benzyl phthalate	Ave	0.5649	0.5746	0.0100	4070	4000	1.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8116	0.8337	0.0100	4110	4000	2.7	20.0
3,3'-Dichlorobenzidine	Ave	0.4459	0.4523	0.0100	8120	8000	1.5	50.0
Benzo[a]anthracene	Ave	1.274	1.266	0.8000	3980	4000	-0.6	20.0
Chrysene	Ave	1.222	1.230	0.7000	4030	4000	0.6	20.0

FORM VII

PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583452/5 Calibration Date: 06/01/2021 12:49

Instrument ID: HP6890-7 Calib Start Date: 05/14/2021 18:14

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/14/2021 19:50

Lab File ID: 7_99-094.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin2		0.0250		0.605	0.500	21.1*	20.0
PCB-1016 Peak 2	Lin2		0.0318		0.588	0.500	17.6	20.0
PCB-1016 Peak 3	Lin2		0.0733		0.546	0.500	9.3	20.0
PCB-1016 Peak 4	Lin1		0.0458		0.630	0.500	26.1*	20.0
PCB-1016 Peak 5	Lin2		0.0320		0.571	0.500	14.2	20.0
PCB-1260 Peak 1	Lin2		0.0603		0.561	0.500	12.2	20.0
PCB-1260 Peak 2	Lin1		0.0790		0.659	0.500	31.8*	20.0
PCB-1260 Peak 3	Lin2		0.1016		0.671	0.500	34.1*	20.0
PCB-1260 Peak 4	Lin2		0.0568		0.594	0.500	18.8	20.0
PCB-1260 Peak 5	Lin1		0.1526		0.659	0.500	31.8*	20.0
Tetrachloro-m-xylene	Lin1		1.521		0.0148	0.0125	18.5	20.0
DCB Decachlorobiphenyl	Lin2		1.104		0.0136	0.0125	9.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: CCVIS 480-583452/5 Calibration Date: 06/01/2021 12:49

Instrument ID: HP6890-7 Calib Start Date: 05/14/2021 18:14

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/14/2021 19:50

Lab File ID: 7_99-094.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin2		0.0191		0.496	0.500	-0.7	20.0
PCB-1016 Peak 2	Lin2		0.0346		0.400	0.500	-20.0	20.0
PCB-1016 Peak 3	Lin2		0.0481		0.386	0.500	-22.8*	20.0
PCB-1016 Peak 4	Ave	0.0398	0.0383		0.480	0.500	-4.0	20.0
PCB-1016 Peak 5	Lin1		0.0303		0.470	0.500	-6.0	20.0
PCB-1260 Peak 1	Lin1		0.0582		0.532	0.500	6.4	20.0
PCB-1260 Peak 2	Ave	0.0616	0.0543		0.441	0.500	-11.9	20.0
PCB-1260 Peak 3	Lin1		0.0595		0.519	0.500	3.8	20.0
PCB-1260 Peak 4	Lin1		0.0531		0.488	0.500	-2.3	20.0
PCB-1260 Peak 5	Lin2		0.1389		0.521	0.500	4.2	20.0
Tetrachloro-m-xylene	Lin2		1.244		0.0119	0.0125	-5.2	20.0
DCB Decachlorobiphenyl	Lin2		1.153		0.0132	0.0125	6.0	20.0

FORM I

PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-582893/1-A

Matrix: Water Lab File ID: 25_47-010.D

Analysis Method: 8081B Date Collected:

Extraction Method: 3510C Date Extracted: 05/27/2021 08:24

Sample wt/vol: 250(mL) Date Analyzed: 05/28/2021 09:11

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583115 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.050	0.0092
72-55-9	4,4'-DDE	ND		0.050	0.012
50-29-3	4,4'-DDT	ND		0.050	0.011
309-00-2	Aldrin	ND		0.050	0.0081
319-84-6	alpha-BHC	ND		0.050	0.0077
5103-71-9	cis-Chlordane	ND		0.050	0.015
319-85-7	beta-BHC	ND		0.050	0.025
319-86-8	delta-BHC	ND		0.050	0.010
60-57-1	Dieldrin	ND		0.050	0.0098
959-98-8	Endosulfan I	ND		0.050	0.011
33213-65-9	Endosulfan II	ND		0.050	0.012
1031-07-8	Endosulfan sulfate	ND		0.050	0.016
72-20-8	Endrin	ND		0.050	0.014
7421-93-4	Endrin aldehyde	0.0192	J	0.050	0.016
53494-70-5	Endrin ketone	ND		0.050	0.012
58-89-9	gamma-BHC (Lindane)	ND		0.050	0.0080
5103-74-2	trans-Chlordane	ND		0.050	0.011
76-44-8	Heptachlor	ND		0.050	0.0085
1024-57-3	Heptachlor epoxide	ND		0.050	0.0074
72-43-5	Methoxychlor	ND		0.050	0.014
8001-35-2	Toxaphene	ND		0.50	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	42		20-120
877-09-8	Tetrachloro-m-xylene	90		44-120

FORM II

GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
FBR-MW-23	480-185211-5	59	43	81	88	94	73
FBR-MW-18	480-185211-8	63	48	85	96	97	78
FBR-MW-15	480-185211-9	61	50	84	95	86	77
FBR-MW-20	480-185211-14	65	47	85	87	92	55 S1-
DUP	480-185211-15	68	53	91	103	102	81
	MB 480-583028/1-A	58	45	79	87	85	101
	LCS 480-583028/2-A	62	52	93	95	103	103
FBR-MW-15 MS	480-185211-9 MS	68	59	98	96	98	80
FBR-MW-15 MSD	480-185211-9 MSD	65	52	88	91	96	74

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	35-120
PHL = Phenol-d5 (Surr)	22-120
NBZ = Nitrobenzene-d5 (Surr)	46-120
FBP = 2-Fluorobiphenyl	48-120
TBP = 2,4,6-Tribromophenol (Surr)	41-120
TPHd14 = p-Terphenyl-d14 (Surr)	60-148

Column to be used to flag recovery values

FORM II 8270D

FORM II

PESTICIDES SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCBP1 #	DCBP2 #
FBR-MW-16	480-185211-1	67	60	72	63
FBR-MW-11	480-185211-3	76	69	58	53
FBR-MW-15	480-185211-9	79	67	64	58
FBR-MW-15D	480-185211-10	88	75	74	65
FBR-MW-32	480-185211-13	79	66	63	59
FBR-MW-20	480-185211-14	64	28 S1-	0 S1-	0 S1-
DUP	480-185211-15	69	66	47	41
	MB 480-582893/1-A	90	79	42	39
	LCS 480-582893/2-A	76	70	47	44
FBR-MW-15 MS	480-185211-9 MS	79	69	58	52
FBR-MW-15 MSD	480-185211-9 MSD	72	62	68	63

	QC LIMITS
TCX = Tetrachloro-m-xylene	44-120
DCBP = DCB Decachlorobiphenyl	20-120

Column to be used to flag recovery values

FORM II 8081B

FORM III

PESTICIDES MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25_47-014.D

Lab ID: 480-185211-9 MS Client ID: FBR-MW-15 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
4,4'-DDD	0.500	ND	0.438	88	57-130	
4,4'-DDE	0.500	ND	0.307	61	39-120	
4,4'-DDT	0.500	ND	0.394	79	37-130	
Aldrin	0.500	ND	0.356	71	39-125	
alpha-BHC	0.500	ND	0.420	84	48-120	
cis-Chlordane	0.500	ND	0.360	72	44-120	
beta-BHC	0.500	ND	0.515	103	49-120	
delta-BHC	0.500	ND	0.509	102	50-120	
Dieldrin	0.500	ND	0.440	88	56-130	
Endosulfan I	0.500	ND	0.410	82	40-126	
Endosulfan II	0.500	ND	0.476	95	59-140	
Endosulfan sulfate	0.500	ND	0.599	120	60-134	
Endrin	0.500	ND	0.469	94	54-135	
Endrin aldehyde	0.500	ND	1.01	203	50-142	F1
Endrin ketone	0.500	ND	0.587	117	57-138	
gamma-BHC (Lindane)	0.500	ND	0.472	94	50-120	
trans-Chlordane	0.500	ND	0.376	75	42-120	
Heptachlor	0.500	ND	0.453	91	56-120	
Heptachlor epoxide	0.500	ND	0.445	89	58-125	
Methoxychlor	0.500	ND	0.527	105	40-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III

PESTICIDES MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 25_47-015.D

Lab ID: 480-185211-9 MSD Client ID: FBR-MW-15 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
4,4'-DDD	0.476	0.425	89	3	23	57-130	
4,4'-DDE	0.476	0.312	66	2	22	39-120	
4,4'-DDT	0.476	0.411	86	4	24	37-130	
Aldrin	0.476	0.326	69	9	25	39-125	
alpha-BHC	0.476	0.362	76	15	24	48-120	
cis-Chlordane	0.476	0.340	71	6	23	44-120	
beta-BHC	0.476	0.468	98	10	24	49-120	
delta-BHC	0.476	0.460	97	10	24	50-120	
Dieldrin	0.476	0.402	84	9	24	56-130	
Endosulfan I	0.476	0.372	78	10	30	40-126	
Endosulfan II	0.476	0.443	93	7	40	59-140	
Endosulfan sulfate	0.476	0.559	117	7	24	60-134	
Endrin	0.476	0.431	91	8	24	54-135	
Endrin aldehyde	0.476	0.406	85	85	28	50-142	F2
Endrin ketone	0.476	0.544	114	8	26	57-138	
gamma-BHC (Lindane)	0.476	0.416	87	13	24	50-120	
trans-Chlordane	0.476	0.360	76	4	24	42-120	
Heptachlor	0.476	0.406	85	11	25	56-120	
Heptachlor epoxide	0.476	0.403	85	10	23	58-125	
Methoxychlor	0.476	0.511	107	3	26	40-150	

Column to be used to flag recovery and RPD values

FORM III 8081B

FORM III

GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T3821.D

Lab ID: LCS 480-583546/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	28.4	114	80-122	
trans-1,2-Dichloroethene	25.0	24.6	99	73-127	
trans-1,3-Dichloropropene	25.0	31.8	127	80-120	*+
Trichloroethene	25.0	26.3	105	74-123	
Trichlorofluoromethane	25.0	26.9	108	62-150	
Vinyl chloride	25.0	26.4	106	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

Data Usability Summary Report

Site: SMP B – 34 Freeman's Bridge Road
Laboratory: Eurofins TestAmerica Buffalo – Amherst, NY
SDG No.: 480-185211-1
Parameters: Metals
Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: August 23, 2021

Sample Reviewed and Evaluation Summary

8 Groundwater Samples: FBR-MW-15, FBR-MW-15D, FBR-MW-16, FBR-MW-20, FBR-MW-21, FBR-MW-23, FBR-MW-33, DUP*

*Field duplicate of sample FBR-MW-15

The above-listed groundwater samples were collected on May 24-25, 2021 and were analyzed for metals by SW-846 Method 6010C.

The data validation was performed in accordance with *USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA-542-R-20-006)*, November 2020, modified for the SW-846 methodology utilized.

The data were evaluated based on the following parameters:

	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Holding Times and Sample Preservation
*	•	Initial and Continuing Calibrations
	•	Interference Check Sample (ICS) Results
*	•	Blanks
*	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
NA	•	Laboratory Duplicate Results
*	•	Serial Dilution Results
*	•	Laboratory Control Sample (LCS) Results
*	•	Field Duplicate Results
	•	Sample Results and Reported Quantitation Limits (QLs)

*	-	All criteria were met.
NA	-	Laboratory duplicates were not associated with this sample set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select metals results that were detected between the method detection limit (MDL) and QL. These results were qualified as estimated (J) by the laboratory. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The positive result for vanadium in sample FBR-MW-33 was qualified as estimated (J-) with a potential low bias, and the nondetect result for vanadium in sample FBR-MW-16 and the nondetect results for arsenic and chromium in samples FBR-MW-16 and FBR-MW-33 were qualified as estimated (UJ) due to negative interferences in the ICS analysis. These results can be used for project objectives as an estimated value and as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The positive results for copper and zinc in samples FBR-MW-16 and FBR-MW-33, and nickel in sample FBR-MW-33 were qualified as nondetect (U) at the QLs due to positive interference in the ICS analysis and detection between the MDL and QL. These results can be used for project objectives as nondetects, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the metals analyses.

Initial and Continuing Calibrations

The initial calibration verification and continuing calibration verification percent recoveries (%Rs) met the method acceptance limits for the metals analyses. All initial calibration coefficients were >0.995. The low-level check standard %Rs met the quality control (QC) acceptance limits of 70-130%.

ICS Results

All analytes recovered within the acceptance limits in the ICSAB sample analysis. There were several analytes detected as positive and/or negative interference in the ICSA analysis. The interferent, calcium, was detected in samples FBR-MW-16 and FBR-MW-33 at levels comparable to the ICSA solution. The interferents (aluminum, calcium, iron and magnesium) were not detected in the remaining groundwater samples at levels comparable to the ICSA solutions. Therefore, ICS interferences were not evaluated in the remaining groundwater samples.

The following table lists the concentrations found in the ICSA of analytes that were impacted by the calcium interferent, the affected samples, and the validation actions.

Analyte	ICSA Concentration (mg/L)	Validation Actions
Arsenic	-0.0072	The nondetect results for arsenic and chromium in the associated samples were qualified as estimated (UJ).
Chromium	-0.0012	
Vanadium	-0.0016	The nondetect result for vanadium in sample FBR-MW-16 was qualified as estimated (UJ). The positive result for vanadium in sample FBR-MW-33 was qualified as estimated (J-) with a potential low bias.
Manganese	-0.0005	Qualification was not required since the positive results for manganese in the associated samples were >10× the negative ICS interference.

Analyte	ICSA Concentration (mg/L)	Validation Actions
Cadmium	0.0012	Qualification was not required since cadmium was not detected in the associated samples.
Nickel	0.0027	The positive result for nickel in sample FBR-MW-33 was qualified as nondetect (U) at the QL since the result was between the MDL and QL, and was <10× the estimated sample interference level. Qualification was not required for sample FBR-MW-16 since nickel was not detected in this sample.
Potassium	0.139	Qualification was not required since the positive results for potassium in the associated samples were > 10× the estimated sample interference levels based on the reported ICS interference.
Copper	0.0021	The positive results for copper and zinc in the associated samples were qualified as nondetect (U) at the QL since results were detected between the MDL and QL, and were <10× the estimated sample interference levels.
Zinc	0.0021	
Associated samples: FBR-MW-16, FBR-MW-33		

Blanks

Target metals were not detected in the method blank or calibration blanks.

MS/MSD Results

MS/MSD and post-digestion spike (PDS) analyses for metals were performed on sample FBR-MW-15. Qualification of the data is not required in the case of nonconformances when the sample concentration is >4x the spike concentration; thus, these results were not evaluated or summarized in this report. All criteria were met.

Laboratory Duplicate Results

Laboratory duplicate analyses were not performed on any samples in this data set.

Serial Dilution Results

Serial dilution analysis was performed on sample FBR-MW-15. All percent differences (%Ds) met the QC acceptance criteria (%D ≤10%) for all analytes detected at >50× the MDL.

LCS Results

The %Rs for all metals met the laboratory acceptance criteria in the LCS analysis.

Field Duplicate Results

Samples FBR-MW-15 and DUP were submitted as the field duplicate pair with this data set. The following table summarizes the RPDs and/or absolute differences (AbsD) of the detected results, where applicable. All criteria were met.

Analyte	QLs (mg/L)	FBR-MW-15 (mg/L)	DUP (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Aluminum	0.2	0.22	0.22	RPD: 0	None; all criteria were met.

Analyte	QLs (mg/L)	FBR-MW-15 (mg/L)	DUP (mg/L)	RPD (%) or AbsD (mg/L)	Validation Action
Barium	0.002	0.055	0.054	RPD: 1.8	None; all criteria were met.
Calcium	0.5	138	134	RPD: 2.9	
Copper	0.01	0.0018 J	0.0023 J	AbsD: 0.0005	
Iron	0.05	2.6	2.5	RPD: 3.9	
Magnesium	0.2	24.7	24.2	RPD: 2.0	
Manganese	0.003	0.46	0.44	RPD: 4.4	
Potassium	0.5	2.5	2.5	RPD: 0	
Sodium	1.0	172	166	RPD: 3.6	
Zinc	0.01	0.0042 J	0.0041 J	AbsD: 0.0001	

Field duplicate criteria are as follows:

- RPD ≤ 30 when positive results for both samples are ≥ 5× QL
- AbsD < QL when both results are < 5× QL

Sample Results and Reported Quantitation Limits

Select metal results were reported between the MDL and QL. These results were qualified as estimated (J) by the laboratory.

Sample calculations were spot-checked; there were no errors noted.

There were no dilutions performed on any samples in this data set.

QUALIFIED FORM 1s

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-16 Lab Sample ID: 480-185211-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/24/2021 11:30

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L	UJ		1	6010C
7440-39-3	Barium	0.20	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	288	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L	UJ		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND ~~0.0021~~	0.010	0.0016	mg/L	~~J~~ U		1	6010C
7439-89-6	Iron	25.4	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0031	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	47.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	2.8	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	5.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	23.2	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L	UJ		1	6010C
7440-66-6	Zinc	ND ~~0.0037~~	0.010	0.0015	mg/L	~~J~~ U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-23 Lab Sample ID: 480-185211-5

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/25/2021 09:40

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.22	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.19	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	133	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	7.4	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0090	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	19.1	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.72	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	5.6	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	17.5	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0061	0.010	0.0015	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-21 Lab Sample ID: 480-185211-7

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/25/2021 12:50

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.10	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	0.0059	0.015	0.0056	mg/L	J		1	6010C
7440-39-3	Barium	0.086	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	159	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	13.1	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0030	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	17.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	7.4	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.6	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	21.8	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.014	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-15 Lab Sample ID: 480-185211-9

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/25/2021 11:15

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.22	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.055	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	138	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0018	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	2.6	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	24.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.46	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.5	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	172	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0042	0.010	0.0015	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-15D
Lab Sample ID: 480-185211-10
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-185211-1
SDG ID.:
Matrix: Water
Date Sampled: 05/25/2021 12:30
Reporting Basis: WET
Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.21	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.032	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	167	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0029	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.46	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0059	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	29.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.17	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	3.5	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	159	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.010	0.010	0.0015	mg/L			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/24/2021 13:55

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.097	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L	UJ		1	6010C
7440-39-3	Barium	0.12	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	361	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L	UJ		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND ~~0.0064~~	0.010	0.0016	mg/L	~~J~~ U		1	6010C
7439-89-6	Iron	1.3	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	0.0039	0.010	0.0030	mg/L	J		1	6010C
7439-95-4	Magnesium	21.1	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.34	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND ~~0.0021~~	0.010	0.0013	mg/L	~~J~~ U		1	6010C
7440-09-7	Potassium	15.1	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	42.2	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0052	0.0050	0.0015	mg/L	J		1	6010C
7440-66-6	Zinc	ND ~~0.0034~~	0.010	0.0015	mg/L	~~J~~ U		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG ID.:

Matrix: Water Date Sampled: 05/25/2021 14:00

Reporting Basis: WET Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.066	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.055	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	105	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0032	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.00066	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0017	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.63	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.029	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	0.0084	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	75.2	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	162	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	0.0058	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0022	0.010	0.0015	mg/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP
Lab Sample ID: 480-185211-15
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-185211-1
SDG ID.:
Matrix: Water
Date Sampled: 05/25/2021 16:00
Reporting Basis: WET
Date Received: 05/26/2021 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.22	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.054	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	134	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0023	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	2.5	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	24.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.44	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.5	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	166	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0041	0.010	0.0015	mg/L	J		1	6010C

QC NONCONFORMANCE DOCUMENTATION

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Lab Sample ID: ICSA 480-583942/8 Instrument ID: ICAP1

Lab File ID: I1060321A-10A.asc ICS Source: MEI_MSS_ICSA_00028

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**506**	**101**
Antimony		**-0.0008**	
Arsenic		**-0.0072**	
Barium	**0.0120**	**0.0133**	
Beryllium		**0.0000**	
Cadmium		**0.0012**	
Calcium	**500**	**481**	**96**
Chromium		**-0.0012**	
Cobalt		**-0.0002**	
Copper		**0.0021**	
Iron	**200**	**195**	**98**
Lead		**0.0016**	
Magnesium	**500**	**526**	**105**
Manganese		**-0.0005**	
Nickel		**0.0027**	
Potassium		**0.139**	
Selenium		**-0.0039**	
Silver		**-0.0009**	
Sodium		**0.0746**	
Thallium		**-0.0036**	
Vanadium		**-0.0016**	
Zinc		**0.0021**	
Boron		*0.0001*	
Lithium		*0.0043*	
Molybdenum		*-0.0024*	
Silicon		*0.0033*	
Sulfur		*-0.293*	
Tin		*0.0018*	
Titanium		*0.0026*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

Data Usability Summary Report

Site: SMP B – 34 Freeman's Bridge Road
Laboratory: Eurofins TestAmerica – Amherst, NY and Burlington, VT
SDG No.: 480-185211-1
Parameters: Per- and Poly-fluoroalkyl Substances (PFAS), 1,4-Dioxane
Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: August 20, 2021

Samples Reviewed and Evaluation Summary

5 Groundwater Samples: FBR-MW-11, FBR-MW-16, FBR-MW-20*, FBR-MW-30, FBR-MW-33*

*Analyzed for 1,4-dioxane only

The above-listed groundwater samples were collected on May 24 and 25, 2021 and were analyzed for one or more of the following parameters:

- 1,4-Dioxane by SW-846 8270D with Selective Ion Monitoring (SIM)
- PFAS (21 target analytes) based on EPA Method 537.1 (modified) using Test America – Burlington, VT standard operating procedure (SOP) BR-LC-009, revision 4.0, effective date 04/12/19.

The samples were analyzed for 1,4-dioxane by Eurofins TestAmerica – Amherst, NY and for PFAS by Eurofins TestAmerica – Burlington, VT. The data validation was performed in accordance with the following guidance, modified for the methodologies utilized:

- USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-20-005), November 2020
- USEPA National Functional Guidelines for High Resolution Superfund Methods Data Review (EPA-542-R-20-007), November 2020
- USEPA Data Review and Validation Guidelines for PFAS Analyzed Using EPA Method 537 (EPA 910-R-18-001), November 2018
- New York State Department of Environmental Conservation Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids, January 2021

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
- Data Completeness
- * Holding Times and Sample Preservation
- * GC/MS Tunes (1,4-Dioxane only)
- * Initial and Continuing Calibrations
- * Blanks
- * Surrogate Recoveries (1,4-Dioxane only)
- Isotopically Labeled Surrogate Results (PFAS only)
- NA Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
- * Laboratory Control Sample (LCS) Results

* • Internal Standards
NA • Field Duplicate Results
• Sample Results and Reported Quantitation Limits (QLs)
• Target Compound Identification

* - All criteria were met.
NA - Field duplicates and MS/MSDs were not associated with this sample set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data because of sampling error were not required. Qualifications applied to the data because of analytical error are discussed below.

- Potential uncertainty exists for select results for 1,4-dioxane and PFAS that were below the lowest calibration standard and QL. These results were qualified as estimated (J) in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for PFBA, PFTriA, and PFTeA in sample FBR-MW-20 were qualified as estimated (UJ) due to low isotopically labeled surrogate recoveries. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The positive result for PFBS in sample FBR-MW-20 was qualified as estimated (J) due to the ion ratio between the two precursor/product ion transitions being outside of acceptance criteria. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable. However, it should be noted that PFAS analysis was inadvertently not requested on the chain-of-custody for sample FBR-MW-30. The laboratory analyzed and reported PFAS results for this sample as requested by the project manager. No validation actions were required on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

GC/MS Tunes (1,4-Dioxane only)

All criteria were met in the 1,4-dioxane analyses.

Initial and Continuing Calibrations

The percent relative standard deviations and/or coefficients of determination were within the method acceptance criteria in the initial calibrations for 1,4-dioxane and PFAS. The percent differences and/or percent drifts met the method acceptance criteria in the continuing calibration standards associated with the samples in this data set for 1,4-dioxane and PFAS.

Blanks

Target analytes were not detected in the associated method blanks.

Surrogate Recoveries (1,4-Dioxane only)

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria.

Isotopically Labeled Surrogate Results (PFAS only)

Eighteen isotopically labeled surrogates were spiked into the samples prior to extraction for isotope dilution quantitation. The %Rs were within the acceptance criteria with the following exceptions. The %Rs of 13C4 PFBA (12%), 13C2 PFTeDA (34%), and M2-8:2 FTS (153%) in sample FBR-MW-20 were outside of the laboratory's acceptance limits (25-150%, 50-150%, and 25-150%, respectively). The nondetect results for PFBA, PFTriA, and PFTeA in sample FBR-MW-20 were qualified as estimated (UJ). No qualification was required for 8:2 FTS since this compound was not detected in this sample.

MS/MSD Results

MS/MSD analyses were not performed on a sample from this data set.

LCS Results

The LCS %Rs were within the laboratory acceptance criteria for the 1,4-dioxane and PFAS analyses.

Internal Standards

1,4-Dioxane

The %Rs for the internal standard 1,4-dichlorobenzene-d_4 met the laboratory limits of 50-150% in the 1,4-dioxane analyses.

PFAS

The isotopically labeled internal standard 13C2-PFOA was added to each sample prior to injection to monitor for ion suppression/enhancement at the instrument level. The %Rs met the laboratory limits of 50-150% in the PFAS analyses.

Field Duplicate Results

There were no field duplicates associated with this data set.

Sample Results and Reported Quantitation Limits

Select results for 1,4-dioxane and PFAS were reported below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

Sample calculations were spot-checked; there were no errors noted. There were no dilutions performed on samples in this data set.

The laboratory indicated on the PFAS preparation log that sample FBR-MW-16 contained sediment which was discarded; 288.01 grams of sample were extracted (compared to the initial volume of 291.6 mL). No validation action was taken on this basis.

Target Compound Identification

1,4-Dioxane

All criteria were met for 1,4-dioxane.

PFAS

Extracted ion chromatograms were reviewed to verify the target compound identifications. The laboratory manually integrated several peaks to ensure the inclusion of linear and branched isomers for PFOA, PFOS, NEtFOSAA, NMeFOSAA, and/or PFHxS; and/or to ensure proper integration of all PFAS.

Two precursor/product ion transitions were used for identification for all compounds except for PFBA, PFPeA, PFOSA, NMeFOSAA, NEtFOSAA, 6:2 FTS, and 8:2 FTS which only used one precursor/product ion transition for identification.

The following table summarizes the ratio between the two precursor/product ion transitions for detected results that did not meet the laboratory acceptance criteria and the validation actions.

Sample ID	Compound	Ratio	Ratio QC Limits	Validation Actions
FBR-MW-20	PFBS	4.30	1.09-3.28	The positive result for PFBS in sample FBR-MW-20 was qualified as estimated (J).

QUALIFIED FORM 1s

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Matrix: Water Lab File ID: U33162356.D

Analysis Method: 8270D SIM ID Date Collected: 05/24/2021 13:55

Extract. Method: 3510C Date Extracted: 05/26/2021 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 05/28/2021 22:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583275 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.15	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	93		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: U33162357.D

Analysis Method: 8270D SIM ID Date Collected: 05/25/2021 14:00

Extract. Method: 3510C Date Extracted: 05/26/2021 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 05/28/2021 22:48

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 583275 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.2		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	89		15-110

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-16 Lab Sample ID: 480-185211-1

Matrix: Water Lab File ID: PA210603A27.d

Analysis Method: 537 (modified) Date Collected: 05/24/2021 11:30

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 291.6(mL) Date Analyzed: 06/03/2021 16:50

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.2		4.3	0.77
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.3		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	6.1		1.7	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.1		1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	21		1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	1.4	J	1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	0.40	J	1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.7		1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	21		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.7	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	55		1.7	0.25
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.9	J	4.3	0.64
27619-97-2	6:2 FTS	ND		4.3	0.94
39108-34-4	8:2 FTS	ND		1.7	0.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-11 Lab Sample ID: 480-185211-3

Matrix: Water Lab File ID: PA210603A28.d

Analysis Method: 537 (modified) Date Collected: 05/24/2021 14:10

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 295.2(mL) Date Analyzed: 06/03/2021 16:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.5		4.2	0.76
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.8		1.7	0.40
307-24-4	Perfluorohexanoic acid (PFHxA)	2.9		1.7	0.38
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.3		1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	9.6		1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	0.96	J	1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.9		1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	17		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.78	J	1.7	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35		1.7	0.25
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.63
27619-97-2	6:2 FTS	ND		4.2	0.93
39108-34-4	8:2 FTS	ND		1.7	0.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-30 Lab Sample ID: 480-185211-6

Matrix: Water Lab File ID: PA210603A29.d

Analysis Method: 537 (modified) Date Collected: 05/25/2021 11:30

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 297.2(mL) Date Analyzed: 06/03/2021 17:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.6		4.2	0.75
2706-90-3	Perfluoropentanoic acid (PFPeA)	6.0		1.7	0.40
307-24-4	Perfluorohexanoic acid (PFHxA)	6.7		1.7	0.38
375-85-9	Perfluoroheptanoic acid (PFHpA)	6.1		1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	16		1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	5.6		1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	1.8		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.32
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.2		1.7	0.25
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.30	J	1.7	0.20
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	19		1.7	0.24
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.62
27619-97-2	6:2 FTS	ND		4.2	0.92
39108-34-4	8:2 FTS	ND		1.7	0.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-33 Lab Sample ID: 480-185211-12

Matrix: Water Lab File ID: PA210603A30.d

Analysis Method: 537 (modified) Date Collected: 05/24/2021 13:55

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 270.7(mL) Date Analyzed: 06/03/2021 17:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	16		4.6	0.82
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.2		1.8	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	4.5		1.8	0.42
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.3	J	1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	1.4	J	1.8	0.39
375-95-1	Perfluorononanoic acid (PFNA)	0.34	J	1.8	0.26
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.32
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.36
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.40
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.58
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.8	0.23
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.93	J	1.8	0.28
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.63	J	1.8	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.53
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.6	0.83
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.6	0.69
27619-97-2	6:2 FTS	4.1	J	4.6	1.0
39108-34-4	8:2 FTS	ND		1.8	0.36

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: PA210603A31.d

Analysis Method: 537 (modified) Date Collected: 05/25/2021 14:00

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 276(mL) Date Analyzed: 06/03/2021 17:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	~~ND~~	UJ	4.5	0.81
2706-90-3	Perfluoropentanoic acid (PFPeA)	10		1.8	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	15		1.8	0.41
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.6		1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	20		1.8	0.38
375-95-1	Perfluorononanoic acid (PFNA)	2.8		1.8	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	0.66	J	1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.35
72629-94-8	Perfluorotridecanoic acid (PFTriA)	~~ND~~	UJ	1.8	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeA)	~~ND~~	UJ	1.8	0.57
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.8	~~I~~ J	1.8	0.23
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6		1.8	0.27
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.36	J	1.8	0.21
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	15		1.8	0.26
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.82
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.0	J	4.5	0.67
27619-97-2	6:2 FTS	6.9		4.5	0.99
39108-34-4	8:2 FTS	ND		1.8	0.35

QC NONCONFORMANCE DOCUMENTATION

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-185211-1

SDG No.:

Client Sample ID: FBR-MW-20 Lab Sample ID: 480-185211-14

Matrix: Water Lab File ID: PA210603A31.d

Analysis Method: 537 (modified) Date Collected: 05/25/2021 14:00

Extraction Method: 3535 Date Extracted: 06/02/2021 15:56

Sample wt/vol: 276(mL) Date Analyzed: 06/03/2021 17:23

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 167551 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	75		25-150
STL00992	13C4 PFBA	12	*5-	25-150
STL01893	13C5 PFPeA	60		25-150
STL00993	13C2 PFHxA	82		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	110		50-150
STL00997	13C2 PFUnA	105		50-150
STL00998	13C2 PFDoA	79		50-150
STL02116	13C2 PFTeDA	34	*5-	50-150
STL02337	13C3 PFBS	88		50-150
STL00994	18O2 PFHxS	91		50-150
STL00991	13C4 PFOS	82		50-150
STL02118	d3-NMeFOSAA	133		50-150
STL02117	d5-NEtFOSAA	140		50-150
STL02279	M2-6:2 FTS	140		25-150
STL02280	M2-8:2 FTS	153	*5+	25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210603-46243.b\PA210603A31.d
Lims ID: 480-185211-J-14-A
Client ID: FBR-MW-20
Sample Type: Client
Inject. Date: 03-Jun-2021 17:23:04 ALS Bottle#: 28 Worklist Smp#: 31
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-185211-J-14-A
Misc. Info.: 200-0046243-031 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210603-46243.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 04-Jun-2021 11:44:31 Calib Date: 20-May-2021 17:37:03
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1657

First Level Reviewer: nampitakw Date: 04-Jun-2021 11:44:28
Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	2.080	2.091	-0.011	0.596	128390	0.1536		12.3	24.3	M
D 3 13C5 PFPeA										M
267.90 > 223.00	2.411	2.414	-0.003	0.690	458240	0.7546		60.4	51.2	M
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.398	2.414	-0.016	0.995	102842	0.2775			0.1	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.424	2.427	-0.003	0.694	779523	1.03		88.3	7395	M
5 Perfluorobutanesulfonic acid										RM
298.90 > 80.00	2.411	2.440	-0.029	0.995	91122	0.1319	Target=2.19		0.7	RM
298.90 > 99.00	2.424	2.440	-0.016	1.000	21196		4.30(1.09-3.28)		1.9	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.768	2.771	-0.003	0.793	673034	1.02		81.7	347	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.768	2.771	-0.003	1.000	218786	0.4015	Target=12.12		0.5	M
313.00 > 119.00	2.768	2.771	-0.003	1.000	12220		17.90(6.06-18.18)		1.1	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.132	3.133	-0.001	0.897	636858	1.08		91.4	1534	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.132	3.133	-0.001	1.000	58877	0.0986	Target=4.23		2.7	M
399.00 > 99.00	3.132	3.133	-0.001	1.000	14355		4.10(2.12-6.35)		5.6	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.132	3.133	-0.001	0.897	714865	1.08		86.8	1255	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.132	3.133	-0.001	1.000	57139	0.0991	Target=3.49		0.7	M
363.00 > 169.00	3.143	3.133	0.010	1.003	24904		2.29(1.75-5.24)		3.4	M