PERIODIC REVIEW REPORT
APRIL 2015 – JANUARY 2020

MAYER LANDFILL SITE
TOWN OF BLOOMING GROVE, NEW YORK 10914

NYSDEC Site No. 336027
Work Assignment No. D007620-45

Prepared for:

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

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APRIL 2020

TRC Project No. 320919

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LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	above mean sea level
COCs	Contaminants of Concern
cu yds	cubic yards
DER	Department of Environmental Remediation
DTW	Depth to Water
DUSRs	Data Usability Summary Reports
ECs	Engineering Controls
EDD	Electronic Data Deliverable
EE	Environmental Easement
EPA	Environmental Protection Agency
ESD	Explanation of Significant Differences
FS	Feasibility Study
ft. bgs	feet below ground surface
ICs	Institutional Controls
IHWDS	Inactive Hazardous Waste Disposal Site
LNAPL	Light Non-Aqueous Phase Liquid
ND	Not detected
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OCDOH	Orange County Department of Health
PCBs	Polychlorinated Biphenyls
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PRR	Periodic Review Report
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	Selective Ion Monitoring
SMP	Site Management Plan
SMR	Site Management Report
SVOCs	Semi-volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TOGS	NYSDEC Division of Water Technical and Operational Guidance Series
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 Controls	• Cover System • Site access restriction via gated access roads • Monitoring Wells	
Institutional Controls	• EE • Groundwater Use Restriction • Soil Management Plan • Land-Use Restriction	• Limited soil cover • Site-Use and Site-Development Restriction • SMP • Excavation Control Plan
Site Classification	Class 4 IHWDS	
Site Management Plan	SMP Rev. No. 1 – October 2010 SMP Rev. No. 2 – April 2015	
Certification/Reporting Period	The April 2015 SMP states that the property owners will periodically certify that Site use is compliant with the ICs at the discretion of NYSDEC. A Certification Period is not specified. The most recent PRR was completed for the period January 2012 to April 2015. The report was certified by the property owners in May 2015. SMRs are not required. The SMP requires certified reporting following a groundwater sampling event.	
Inspection	**Frequency**	
Site Inspection	As determined by NYSDEC.	
Monitoring	**Frequency**	
Groundwater	As determined by NYSDEC.	
Prior PRR/SMR Recommendations	There are no prior PRR/SMR recommendations for the Site.	
Site Management Activities	One site inspection, one round of groundwater level measurements, and one groundwater sampling event was conducted during this reporting period (2015 - 2019). • 05/14/2019: Groundwater level measurements. • 05/17/2019: Site inspection and drum survey. • 05/15/2019 - 05/17/2019: Groundwater samples were collected from 13 of 14 monitoring wells in the monitoring well network. Samples were submitted for laboratory analysis of VOCs, SVOCs, metals, pesticides, and PCBs. Additionally, four of the samples were also analyzed for emerging contaminants.	
Significant Findings or Concerns	A thick, tar-like LNAPL was discovered in monitoring well MW-4R that prevented sample collection during the May 2019 site visit.	

Category	Summary/Results
Recommendations	1. Three-year groundwater sampling frequency with completion of a SMR at the end of the year following the sampling event. 2. Five-year PRR Certification Period. At the discretion of the NYSDEC, a SMR would not be required when a PRR is due the same year. 3. Annual site inspection (concurrent with groundwater sampling events, when possible), including water level measurements and additional inspections, as necessary, following severe weather events. 4. Monitoring well MW-4R should continue to be monitored for LNAPL. 5. PFAS should be included as an analyte for all Site monitoring wells. 6. Contaminant trends should be evaluated once sufficient data is available. 7. SVOCs and pesticides should be considered for removal from the sampling program following another complete round of sampling. 8. If acceptable to the NYSDEC, the April 2015 SMP should be updated to reflect the above sampling/inspection/reporting frequency and PRR Certification Period.
Cost Evaluation	The total cost of site management activities this reporting period was $44,225.00. 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 Mayer Landfill Site (referred to as "the Site") and covers the period, April 2015 through January 2020. This PRR was prepared in accordance with NYSDEC WA No. D007620-45 Notice to Proceed dated October 11, 2018, the NYSDEC-approved Scope of Work dated February 19, 2019 and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation. A Site summary and applicable remedial program information are presented below.

Site Information			
Site Name:	Mayer Landfill Site	**NYSDEC Site No:**	336027
Site Location:	Prospect and Peddler Hill Roads, Blooming Grove, Orange County, New York	**Remedial Program:**	State Superfund Program
Site Type:	Landfill	**Classification:**	04
Parcel Identification(s):	44-1-63.92, Orange County Tax Mapping	**Parcel Acreage / EE Acreage:**	103 / 15
Selected Remedy:	Excavation, Cover System, Long-term Monitoring	**Site COC(s):**	• VOCs • Pesticides • SVOCs • PCBs • Metals
Current Remedial Program Phase:	Site Management	**Institutional Controls:**	• ROD (2005) • SMP (2010, Rev. 2 2015) • EE (2012)
Post-Remediation Monitoring and Sampling Frequency:	Groundwater monitoring and site inspection as determined by NYSDEC	**Engineering Controls:**	Cover System, Restricted Site Access (e.g., locked access road gate), and Monitoring Wells
Monitoring Locations:	Overburden monitoring wells (8) Bedrock monitoring wells (6)	**Required Reporting:**	At a frequency determined by NYSDEC

1.1 Site Location, Ownership, and Description

The Site is in the Town of Blooming Grove, Orange County, New York and is identified as Section 44 Block 1 Lot 63.92 on the Orange County Tax Map and is presently owned by William R. Mayer and Johanna Mayer. The Site parcel has an overall property area of approximately 103 acres, is bounded to the north by Prospect Road, to the south by private properties, to the east by Peddler Hill Road, and to the west by a utility right-of-way. Site location and layout maps are provided on **Figure 1** and **Figure 2**, respectively. The Site was operated as a landfill beginning in 1940. Residential, commercial, industrial, demolition, and agricultural waste were reportedly disposed of at the landfill. The Limits of the Landfill Pursuant to the December 2012 EE are presented on **Figure 2**.

1.2 Investigation/Remedial History

Mayer Landfill began operation in the late 1940s as an open-face dump, with periodic burning of refuse. Mixed waste, including residential, commercial, industrial, demolition, and agricultural waste, were reportedly disposed of at the landfill. In 1965, after being ordered to stop burning, the operator began compacting and covering refuse. The landfill ceased operations in April 1975 due to failure to comply with state and county regulations. In 1975,

the OCDOH conducted an initial investigation of surface water at the landfill and discovered elevated levels of zinc in a wet area to the south of the landfill. The Site was listed in the Registry of IHWDS as a Class 2A site in 1985.

From 1985 to 2002 numerous investigations were conducted by the NYSDEC and NYSDOH, including a Phase I, Phase II, a drinking well sampling event of surrounding private supply wells, and a RI/FS to determine the nature and extent of Site contamination, and to evaluate remedial alternatives. Based on the RI/FS results, the NYSDEC issued a ROD in 2005 which outlined a clean-up plan. The ROD called for a limited removal action of LNAPL impacted soil, discovered buried on the northeastern portion of the landfill. In 2007, further subsurface and groundwater investigations were performed as part of the design activities associated with the remedy implementation. This additional work indicated that the volume of LNAPL contaminated soil was significantly greater than had been estimated in the ROD. As a result, in 2008 the NYSDEC issued an ESD that amended the remedy and called for the removal of a greater volume of contaminated soils.

In 2009, 7,688 tons of LNAPL impacted soil was removed from the Site. While a significant quantity of the LNAPL impacted material was excavated, a limited quantity of LNAPL impacted material was discovered to extend beyond the limits of removal activities. The additional area had an estimated volume of approximately 900 cu yds and was not excavated because the remedial program did not rely on numerical criteria (e.g., SCOs) as guidance for the removal action. The additional LNAPL impacted soil currently remains buried at the Site.

Following excavation of LNAPL contaminated soil, clean soil was used as fill, a cover system was installed, and a monitoring well network was established for continued Site monitoring. Following RA completion, an EE was placed on the Site, and an SMP was developed and implemented to manage the ICs/ECs including long-term groundwater monitoring, existing cover maintenance, future excavation management, exclusion against future residential or restricted-residential uses, and a prohibition of groundwater for portable or process use without treatment.

In 2011, the NYSDEC reclassified the Site from a Class 2A IHWDS to a Class 4 site. In 2012, a revised EE was placed on the Site to include only 15 of the 103 tax parcel acres, which include 13 acres of landfill and 2 acres of buffer, as delineated by the EE survey. In April 2015, the SMP was revised (Rev. 2) to include the same ICs/ECs included in the October 2010 SMP.

A detailed Site history, including the dates and descriptions of significant events, and a Custodial Record detailing known and available Site reports, are included in **Appendix A.**

1.3 Remaining Contamination

While the remedial action completed in 2009 removed a significant quantity of LNAPL impacted soil, an estimated volume of 900 cu yds of LNAPL impacted soil remains in place. Furthermore, all the refuse that was historically disposed at the Site remains buried. The landfill still contains a considerable amount of waste that covers approximately 13 acres. The waste thickness exceeds 18 feet over most of the landfill. Based on observations during the 2009 remedial action, remaining waste mainly includes domestic waste, construction debris such as shingles and electrical conduit, and some crushed drums or parts of drums.

Other than the LNAPL impacted soil and refuse remaining at the Site, low level metals concentrations (primarily iron, manganese and sodium), VOCs, pesticides, PCBs, and PFAS are found in Site groundwater.

1.4 Regulatory Requirements/Cleanup Goals

The overall remedial requirements for the Site include the following:

- Eliminate, to the extent practicable, ingestion of groundwater impacted by the Site that does not attain NYSDOH drinking water standards.
- Eliminate, to the extent practicable, further off-Site migration of groundwater that does not attain NYSDEC Division of Water TOGS 1.1.1 Class GA Standards and Guidance Values (Class GA Values).

Additionally, the objectives of the Site use restrictions and excavation controls include the following goals:

- Eliminate, to the extent practicable, exposure to waste in the landfill.
- Eliminate, to the extent practicable, exposure to LNAPL-contaminated soil in the landfill.
- Eliminate, to the extent practicable, the migration of LNAPL from the small impacted area of the landfill and the release of LNAPL contaminants into groundwater.
- Eliminate, to the extent practicable, exposure to on-site groundwater.

2.0 Institutional and Engineering Control Plan Compliance

2.1 Institutional Controls

The Mayer Landfill Site is managed under the New York State Superfund Program. The Site's inclusion on the Registry of IHWDS, ROD, EE, and SMP act as the ICs for the Site.

The 2012 EE defines the following for the Site:

- Requires compliance with the approved SMP;
- Imposes soil management restrictions;
- Limits the property use and development to commercial or industrial activities;
- Restricts the use of groundwater as a source of potable or process water without necessary water quality treatment as determined by the NYSDOH; and,
- Requires the property owners to complete and submit periodic certification to the NYSDEC.

2.2 Engineering Controls

The Site ECs include a site-wide vegetative cover, a soil and vegetation cover placed on the LNAPL excavation area, access restrictions via gated access roads, and monitoring wells for periodic groundwater monitoring.

3.0 Monitoring and Sampling Plan Compliance

The revised April 2015 SMP was prepared to manage contamination remaining on the Site and ensure that the remedy remains effective by restricting site use, site development, and soil management. The April 2015 SMP specifies the following Site monitoring and sampling activities:

Summary of SMP Site Monitoring and Sampling Plan April 2015			
Site Management Activity	**Frequency**	**Location**	**Laboratory Analysis**
Site Inspection	With each groundwater sampling event at the discretion of NYSDEC	Site property	Not Applicable
Groundwater Sampling	At the discretion of NYSDEC	• MW-2 • MW-4R • MW-4DR • MW-5 • MW-6 • MW-7 • MW-7D • MW-8 • MW-11 • MW-13 • BR-3 • BR-5 • BR-6 • BR-7	• TCL VOCs by EPA Method 8260 • TCL SVOCs by EPA Method 8270 • TAL Metals Methods 6010 and 7470 • Pesticides by EPA Method 8081 • PCBs by EPA Method 8082
SMR	Not required	Not Applicable	Not Applicable
Site Inspection Report	Following each inspection event	Not Applicable	Not Applicable
PRR	Following site inspection and sampling event at the discretion of NYSDEC	Not Applicable	Not Applicable

Additionally, four monitoring wells were selected for a one-time sampling event for emerging contaminants. MW-4DR, MW-5, MW-8, and MW-13 were selected for the sampling and analysis of PFAS by EPA Method 537 (modified) and 1,4-dioxane by EPA Method 8270 SIM.

3.1 Site Inspection

In May 2019, TRC performed a Site visit to conduct groundwater monitoring and inspection activities in accordance with the April 2015 SMP. The site inspection includes an evaluation of the current site use, condition of the limited soil cover, vegetation condition, and condition of other ECs including monitoring wells, access gates, roads, etc.

A summary of the Site visit is as follows:

Summary of Site Inspection May 2019		
Site Management Activity	**Summary of Results**	**Maintenance/Corrective Measure**
Landfill Cap Inspection	The soil cover on the northeast portion of the landfill which covers of the RA excavation was in good condition.	No routine maintenance or corrective measures needed at this time.
Vegetation/Cover System	Vegetation was well established with grass and other primary growth on the upper, flat portion of the landfill. Dense tree stands and shrubs on the lower, sloping portions of the landfill obscured most wells.	Monitoring wells and paths to wells were flagged with orange survey tape.
Monitoring Well Network	All well casings and covers were in good condition. Some J-plugs were broken or missing. All well locks were inoperable. Monitoring well MW-4R was gauged but could not be sampled due to a tar-like LNAPL.	J-plugs were replaced where needed. Well locks were cut from the casings and replaced with new Master Locks® key code 2537.
Groundwater gauging and sampling	All 14 wells were gauged. Groundwater samples were collected from 13 of the 14 wells utilizing standard low-flow sampling techniques. Monitoring well MW-4R was not sampled due to the viscous LNAPL that prevented the tubing from reaching the screened section of the well.	No routine maintenance or corrective measures needed at this time. MW-4R may need to be replaced due to tar-like LNAPL.
Site Access Roads and Gates	Site access gates were operable and locked. The entrance gate was locked by the property owner with a non-NYSDEC lock.	The gate lock was cut and replaced with new a Master Lock® key code 2537. The Site owner subsequently replaced the lock with another lock of unknown make and model.
Drum Survey	Seven drums were located on-site. Six drums were rusted and degraded and appeared to be empty. One drum located near MW-4DR appeared to contain material, most likely soil cuttings associated with the installation of MW-4DR.	No routine maintenance or corrective measures needed at this time.

A field activity report and photographic log from the May 2019 inspection activities can be found in **Appendix B**.

3.2 Groundwater Monitoring Summary

3.2.1 Groundwater Gauging

On May 14, 2019, prior to groundwater sample collection, all wells were gauged for depth to groundwater to evaluate potential groundwater flow direction. Groundwater elevations for the overburden and bedrock monitoring wells and the groundwater surface elevation contours with an interpretation of groundwater flow direction are presented on **Figure 3** and **Figure 4**, respectively. The groundwater gauging and elevation measurements can be found on **Table 1**. A summary of the Site hydrogeologic information is presented below:

Site Hydrogeologic Summary May 2019			
Number of Wells Gauged	**Hydrogeologic Units**	**Hydrogeologic Strata**	**Monitoring Wells per Unit**
14	2	Overburden Bedrock	8 6
Overburden Groundwater Elevation Range		**Bedrock Groundwater Elevation Range**	
Lowest groundwater elevation: 592.74 feet AMSL (MW-5) Highest groundwater elevation: 635.21 feet AMSL (MW-13)		Lowest groundwater elevation: 574.24 feet AMSL (BR-5) Highest groundwater elevation: 602.18 feet AMSL (MW-4DR)	
Inferred Overburden Groundwater Flow Direction		**Inferred Bedrock Groundwater Flow Direction**	
Radial		North	

3.2.2 Groundwater Sampling

TRC collected groundwater samples from 13 of the 14 monitoring wells in the monitoring well network utilizing standard low-flow sampling techniques from May 15 through May 17, 2019. A groundwater sample was not collected from MW-4R due to the presence of the LNAPL. Groundwater sampling logs can be found in **Appendix C**. All 13 groundwater samples, in addition to standard QA/QC samples collected at the frequencies specified in TRC's April 2011 Generic QAPP, were submitted to Eurofins/TestAmerica Laboratories for analysis.

Additionally, the four wells (MW-4DR, MW-5, MW-8, and MW-13) selected for analysis of emerging contaminants were sampled in general accordance with the NYSDEC's August 2018 Collection of Groundwater Samples for PFAS from Monitoring Wells Sample Protocol (Rev 1.2). As described previously, the groundwater samples collected from these wells were submitted to Eurofins/TestAmerica Laboratories for analyses of PFAS and 1,4-dioxane.

A summary of the groundwater sampling information and pertinent well details for each well is presented below:

Summary of Groundwater Monitoring Well Details and Sampling Activities
May 2019

Well ID	Monitoring Well Details				2019 Groundwater Sampling Event		
	Northing	Easting	Screen Zone (ft. bgs)	Material Screened	DTW (ft. bgs)	SMP Analytes	Notes
BR-3	924783.35	574589.26	43.50 - 63.50	Phyllite bedrock	11.05	VOCs, SVOCs, PCBs, Pesticides, Metals	
BR-5	924873.92	574261.84	72.50 - 92.50	Phyllite bedrock	49.68	VOCs, SVOCs, PCBs, Pesticides, Metals	
BR-6	924984.44	573961.91	79.00 - 99.00	Phyllite bedrock	41.36	VOCs, SVOCs, PCBs, Pesticides, Metals	
BR-7	924577.18	573252.55	23.50 - 43.50	Phyllite bedrock	8.38	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-4DR	924578.06	574460.15	56.00 - 76.00	Phyllite bedrock	24.90	VOCs, SVOCs, PCBs, Pesticides, Metals	PFAS, 1,4-Dioxane collected
MW-7D	924858.82	573476.25	14.50 - 29.50	Phyllite bedrock	0.98	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-2	924146.56	573356.27	55.40 - 65.40	Glacial till and bedrock	1.25	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-4R	924517.53	574451.28	8.00 - 20.00	Waste/fill and till interface	6.72	Not Sampled	NAPL at approx. 8 ft. bgs
MW-5	925199.82	574409.07	4.95 - 12.95	Glacial till	3.05	VOCs, SVOCs, PCBs, Pesticides, Metals	PFAS, 1,4-Dioxane collected
MW-6	924644.22	573917.33	7.00 - 17.00	Glacial till	7.26	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-7	924857.86	573483.64	4.50 - 14.50	Clay with silty sand and gravel	0.00	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-8	924226.04	574440.18	11.50 - 21.50	Waste and fill	9.92	VOCs, SVOCs, PCBs, Pesticides, Metals	PFAS, 1,4-Dioxane collected
MW-11	924603.52	573292.26	9.50 - 19.50	Silty sand and gravel with clay	1.85	VOCs, SVOCs, PCBs, Pesticides, Metals	
MW-13	924615.08	574199.46	6.00 - 16.00	Clay with silty sand and gravel	4.58	VOCs, SVOCs, PCBs, Pesticides, Metals	PFAS, 1,4-Dioxane collected

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

3.2.3 Groundwater Analytical Results

Groundwater analytical data for VOCs, SVOCs, pesticides, PCBs, TAL metals, and emerging contaminants can be found in **Table 2** through **Table 7**, respectively. The DUSRs can be found in **Appendix D**. Detected compounds exceeding their respective NYSDEC Class GA Values for each well are illustrated on **Figure 5**. A summary of the May 2019 groundwater analytical results is provided below:

Summary of Groundwater Analytical Results - TCL Organics and TAL Inorganics May 2019				
Constituent	**SCG**	**Concentration Range (µg/L)**	**Location with Highest Concentration**	**Frequency Exceeding SCG**
VOCs				
1,4-Dichlorobenzene	3	ND – 6.2	MW-8	1/13
Benzene	1	ND – 7.8	MW-8	1/13
Chlorobenzene	5	ND – 85	MW-8	1/13
SVOCs				
No Results above NYSDEC Class GA Values				
Pesticides				
beta-BHC	0.04	ND – 0.88	BR-6	2/13
PCBs Aroclors				
Aroclor-1232	NC	ND – 0.76	MW-8	NA
PCBs, Total	0.09	ND – 0.76	MW-8	1/13
Metals				
Iron	300	ND – 47,100	MW-8	10/13
Sodium	20,000	2,100 – 39,700	BR-5	5/13
Manganese	300	2.7 – 3,100	MW-7D	6/13

Additionally, a summary of the results for the groundwater samples from monitoring wells MW-4DR, MW-5, MW-8, and MW-13 that were analyzed for emerging contaminants are presented below:

Summary of Groundwater Analytical Results - Emerging Contaminants May 2019				
Constituent	**SCG***	**Concentration Range (ηg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
PFAS				
Perfluorooctanoic acid (PFOA)	10	ND – 120	MW-8	2/4
Perfluorooctanesulfonic acid (PFOS)	10	ND – 44	MW-8	2/4
Total PFAS	500	ND – 315	MW-8	0/4
1,4-Dioxane				
Constituent	**SCG****	**Concentration Range (µg/L)**	**Location with Highest Detection**	**Frequency Exceeding SCG**
1,4-Dioxane	1	ND – 6.2	MW-8	1/4

Notes:
NC - No NYSDEC standards exist for this analyte.
* - Recommended Guidance Values from the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2020.
** - New York State Drinking Water Quality Council recommended maximum contaminant levels to the New York State Health Commissioner, December 2018.

Groundwater contaminant concentration trend graphs were not prepared for the Site since a sufficient number of post-remedial action groundwater sampling events has not been completed.

4.0 Cost Summary

The total estimated cost of the site management activities for 2019 (January 1, 2019 through December 31, 2019) is approximately $44,225. Site management activities included project management/administration, site inspection, drum survey, sampling of 13 of 14 monitoring wells, analysis of 13 samples for TCL VOCs, TCL SVOCs, PCBs, pesticides, TAL metals and mercury, analysis of 4 samples for 1,4-dioxane and PFAS, and preparation of a PRR. The total includes engineering and subcontractor costs, as well as expenses associated with the project. It should be noted that the total does not include direct costs incurred by NYSDEC in support of the project. A summary of the 2019 site management costs is presented below:

Summary of Site Management Costs
January 1, 2019 through December 31, 2019

Cost Item	Amount Expended (January 1, 2019 through December 31, 2019)	Percent of Total Cost
Engineering Support		
TRC	$30,350	69%
Subcontractors		
Eurofins/TestAmerica	$10,925	25%
Expenses		
TRC	$2,950	6%
Total Cost	**$44,225**	----

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 event.
- 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, EDD preparation, and PRR preparation.

5.0 Conclusions and Recommendations

5.1 Conclusions

- Based on the groundwater elevations measured during the May 2019 site visit, groundwater flow in the overburden appears to be mounded at the center of the Site near the RA excavation area, with radial flow from the center to the perimeter monitoring wells. This observation is consistent with historical reporting. Groundwater flow in the bedrock appears to be to the north of the Site. This observation is also consistent with historical reporting.
- The metals iron, manganese 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. In general, natural organics associated with shale bedrock naturally create reducing conditions in bedrock groundwater. These reducing conditions enhance the dissolution of metals, such as manganese, iron, sodium and other trace metals from the native bedrock. The bedrock groundwater at the Site is likely higher in these metals because of these reducing conditions. The NAPL mass and organic waste in the landfill also likely created reducing conditions in the Site overburden groundwater due to the high carbon content of these wastes. While the NAPL mass was remediated, the groundwater geochemistry likely remains under reducing conditions leading to the ongoing dissolution of minerals from overburden soils and higher dissolved concentrations of these metals in overburden groundwater.
- Site COCs, including VOCs, pesticides, PCBs were detected at concentrations exceeding their respective Class GA Values in groundwater samples collected from the Site. These exceedances are primarily located in monitoring well MW-8, which is located within the waste mass. With the exception of one exceedance of beta-BHC detected slightly above criteria in BR-6, Site COCs were not detected in any of the monitoring wells that are hydraulically downgradient of the landfill. This indicates that Site-related groundwater contamination is likely not significantly migrating.
- PFAS compounds and 1,4-dioxane were detected at concentrations exceeding their respective recommended guidance values in two monitoring wells. PFAS exceedances were detected in MW-5 and MW-8. The 1,4-dioxane exceedances was detected in MW-8. The detection of PFAS compounds and 1,4-dioxane in overburden monitoring well MW-8 indicates that PFAS compounds and 1,4-dioxane may be present in the waste at the Site. The low levels of PFAS detected in overburden monitoring well MW-5 indicate that off-site overburden groundwater may also be impacted by PFAS contamination. However, since no other Site-related COCs were detected in ground water at monitoring well MW-5, it is unclear if the PFAS detected in this well are related to the Site.
- Site and groundwater use were consistent with the restrictions set forth in the ROD, the revised April 2015 SMP and EE. Groundwater monitoring activities were completed in May 2019 for the 2015-2020 certification period. A site inspection and an inspection report were also completed. The ICs operated as intended during this reporting period.
- The remedy continued to be protective of human health and the environment during this reporting period.

5.2 Recommendations

- A routine Site inspection and groundwater sampling event frequency should be established for the Site. A three-year frequency is recommended (next proposed sampling event - Q2 2022). A SMR should also be completed at the end of the year following a sampling event (next proposed SMR - Q4 2022).
- A routine Certification Period should be established for the Site. A five-year Certification Period is recommended. The Certification Period should be calendar year beginning January 1st to calendar year ending December 31st, with the next PRR covering the reporting period beginning January 1, 2020 and ending December 31, 2025. At the discretion of NYSDEC, a SMR would not be required when a PRR is due the same year.
- Water level measurements should continue to be collected at the 13 site monitoring wells during inspection and groundwater monitoring events.
- It is recommended that site inspections be completed annually (concurrent with sampling events when possible) and following severe weather events to certify the ICs/ECs are functioning as intended.
- Monitoring well MW-4R should continue to be monitored during the site inspections for the presence or absence of NAPL through the reporting period. An evaluation and recommendation for the future monitoring and sampling of MW-4R should be made in the PRR at the conclusion of the 2025 reporting period.
- Based on the emerging contaminant groundwater sampling results, PFAS should be included as an analyte for all monitoring wells for at least one future round of groundwater sampling events to evaluate PFAS impacts to groundwater at the Site.
- Contaminant trends for Site-related COCs should be established for the Site once sufficient data has been generated. Site COCs, such as SVOCs and pesticides should be considered for removal from the routine sampling list following another complete round of sampling.
- The April 2015 SMP should be revised to reflect the above changes/modifications, if the changes are acceptable to the NYSDEC.

6.0 Certification of Engineering and Institutional Controls

For each institutional or engineering control identified for the Site, I certify that all of 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.

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7.0 Future Site Activities

Currently groundwater monitoring and site inspection activities are planned at the discretion of NYSDEC per the SMP. Based on the recommendations in **Section 5.0,** the next sampling event should be conducted in Q2 2022 and the next site inspection should be conducted in Q2 2020.

TABLES

Table 1
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of Depth to Water Measurements and Groundwater Elevations

Monitoring Well Identification	Screened Formation	Top of Riser Elevation (feet AMSL)	Gauge Date	Depth to Water (feet below top of riser)	Depth to Bottom (feet below top of riser)	Groundwater Elevation (feet AMSL)
BR-3	Bedrock	609.13	5/14/2019	11.05	62.00	598.08
BR-5	Bedrock	623.92	5/14/2019	49.68	91.95	574.24
BR-6	Bedrock	621.03	5/14/2019	41.36	85.92	579.67
BR-7	Bedrock	606.01	5/14/2019	8.38	44.40	597.63
MW-4DR	Bedrock	627.08	5/14/2019	24.90	75.90	602.18
MW-7D	Bedrock	593.21	5/14/2019	0.98	31.80	592.23
MW-2	Overburden / Bedrock Interface	601.23	5/15/2019	1.25	65.40	599.98
MW-4R	Overburden	630.18	5/14/2019	6.72	11.70	623.46
MW-5	Overburden	595.79	5/14/2019	3.05	13.20	592.74
MW-6	Overburden	641.57	5/14/2019	7.26	19.31	634.31
MW-7	Overburden	593.24	5/14/2019	0.00	16.60	593.24
MW-8	Overburden	626.35	5/14/2019	9.92	23.45	616.43
MW-11	Overburden	604.81	5/14/2019	1.85	21.44	602.96
MW-13	Overburden	639.79	5/14/2019	4.58	18.10	635.21

Notes:
AMSL - above mean sea level

Table 2
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of VOC Results in Groundwater Samples - May 2019

		Sample Location:	**BR-3**	**BR-5**	**BR-6**	**BR-7**	**MW-2**	**MW-4DR**	**MW-5**	**MW-6**	**MW-7**	**MW-7D**	**MW-8**	**MW-11**	**MW-13**
		Sample Name:	ML-BR-3	ML-BR-5	ML-BR-6	ML-BR-7	ML-MW-2	ML-MW-4DR	ML-MW-5	ML-MW-6	ML-MW-7	ML-MW-7D	ML-MW-8	ML-MW-11	ML-MW-13
		Laboratory Sample Identification:	480-153772-4	480-153772-5	480-153772-6	480-153772-2	480-153772-14	480-153772-3	480-153772-12	480-153772-9	480-153772-10	480-153772-11	480-153772-8	480-153772-1	480-153772-7
		Sample Date:	05/16/2019	05/16/2019	05/17/2019	05/15/2019	05/15/2019	05/16/2019	05/16/2019	05/15/2019	05/15/2019	05/15/2019	05/16/2019	05/15/2019	05/15/2019
Volatile Organic Compounds (VOCs)	Unit	Class GA Value*	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
1,1,1-Trichloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2-Trichloro- 1,2,2-trifluoroethane (Freon 113)	ug/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	4.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	4.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	ug/L	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.2**	1.0 U	1.0 U
2-Butanone (MEK)	ug/L	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U	10 U
2-Hexanone	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U
4-Methyl-2-pentanone	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U	5.0 U	5.0 U
Acetone	ug/L	50	10 U	**3.1 J**	**13**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12 J**	10 U	10 U
Benzene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.8**	1.0 U	1.0 U
Bromodichloromethane	ug/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Bromoform	ug/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Bromomethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
Carbon disulfide	ug/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**85**	1.0 U	1.0 U
Dibromochloromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chloroethane	ug/L	7	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
Chloroform	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chloromethane	ug/L	NC	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
1,4-Dioxane	ug/L	5	R	R	R	R	R	R	R	R	R	R	R	R	R
cis-1,2-Dichloroethene	ug/L	0.4(a)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	NC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	50	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	4.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Isopropylbenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.5 J**	1.0 U	1.0 U
Methyl acetate	ug/L	NC	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U
Methyl tert-butyl ether	ug/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	NC	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	**0.77 J**	1.0 U	1.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Styrene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	4.0 UJ	1.0 U	1.0 U
Toluene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.4(a)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
Vinyl chloride	ug/L	2	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ	1.0 UJ
Xylenes, total	ug/L	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U	2.0 U	2.0 U
Total VOC TICs	ug/L	NC	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*	***54 JN***	*ND*	*ND*

Notes:
ug/L - micrograms per liter.
J - Estimated value.
N - Presumptive evidence of material.
ND - Total and individual TICs not detected.
NC - No NYSDEC standards exist for this analyte.
R - Rejected data point.

U - Analyte was not detected at specified quantitation limit.
UJ - Estimated non-detect.
Values shown in **bold** type indicate a detected analyte.
Shading indicates result above the listed Class GA Value.
TICs- Tentatively Identified Compounds.
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.

Table 3
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of SVOC Results in Groundwater Samples - May 2019

		Sample Location:	**BR-3**	**BR-5**	**BR-6**	**BR-7**	**MW-2**	**MW-4DR**	**MW-5**	**MW-6**	**MW-7**	**MW-7D**	**MW-8**	**MW-11**	**MW-13**
		Sample Name:	ML-BR-3	ML-BR-5	ML-BR-6	ML-BR-7	ML-MW-2	ML-MW-4DR	ML-MW-5	ML-MW-6	ML-MW-7	ML-MW-7D	ML-MW-8	ML-MW-11	ML-MW-13
		Laboratory Sample Identification:	480-153772-4	480-153772-5	480-153772-6	480-153772-2	480-153772-14	480-153772-3	480-153772-12	480-153772-9	480-153772-10	480-153772-11	480-153772-8	480-153772-1	480-153772-7
		Sample Date:	05/16/2019	05/16/2019	05/17/2019	05/15/2019	05/15/2019	05/16/2019	05/16/2019	05/15/2019	05/15/2019	05/15/2019	05/16/2019	05/15/2019	05/15/2019
Semivolatile Organic Compounds (SVOCs)	Unit	Class GA Value*	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
2,4,5-Trichlorophenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dimethylphenol	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol	ug/L	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Chlorophenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.89 J**	5.0 U	5.0 U
2-Methylnaphthalene	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Methylphenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Nitroaniline	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3,3'-Dichlorobenzidine	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	1(b)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloro-3-methylphenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chloroaniline	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Chlorophenyl-phenyl ether	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methylphenol	ug/L	NC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	ug/L	1(b)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	ug/L	20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthylene	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetophenone	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.90 J**	5.0 U	5.0 U
Anthracene	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Atrazine	ug/L	7.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)anthracene	ug/L	0.002	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzaldehyde	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(a)pyrene	ug/L	ND	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(b)fluoranthene	ug/L	0.002	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(g,h,i)perylene	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzo(k)fluoranthene	ug/L	0.002	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1'-Biphenyl	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2,2'-Oxybis(1-chloropropane)	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethoxy)methane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-chloroethyl) ether	ug/L	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bis(2-ethylhexyl)phthalate	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**2.6 J**	5.0 U	5.0 U
Butylbenzylphthalate	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Caprolactam	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbazole	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chrysene	ug/L	0.002	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Di-n-butylphthalate	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.40 J**	5.0 U	5.0 U
Di-n-octylphthalate	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenz(a,h)anthracene	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibenzofuran	ug/L	NC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl phthalate	ug/L	50	5.0 U	**0.41 J**	5.0 U	5.0 U	5.0 U	**0.73 J**	5.0 U	5.0 U	5.0 U	5.0 U	**0.46 J**	5.0 U	5.0 U
Dimethylphthalate	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluoranthene	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Fluorene	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobenzene	ug/L	0.04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	0.5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorocyclopentadiene	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachloroethane	ug/L	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.002	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isophorone	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
n-Nitroso-di-n-propylamine	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
N-Nitrosodiphenylamine	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1.8 J**	5.0 U	5.0 U
Naphthalene	ug/L	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nitrobenzene	ug/L	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Pentachlorophenol	ug/L	1(b)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	ug/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Phenol	ug/L	1(b)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.40 J**	5.0 U	5.0 U
Total SVOC TICs	ug/L	NC	***3.90 J***	***115 J***	***197 J***	***32.2 J***	***4.90 J***	*ND*	***1.70 J***	***2.80 J***	*ND*	***13.0 J***	***205 J***	***2.70 J***	***6.20 J***

Notes:
ug/L - micrograms per liter.
J - Estimated value.
NC - No NYSDEC standards exist for this analyte.
ND - A non-detectable concentration.
U - Analyte was not detected at specified quantitation limit.

Values shown in **bold** type indicate a detected analyte
Shading indicates result above the listed Class GA Value.
TICs- Tentatively Identified Compounds.
* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.
(b) - criteria applicable to total phenolics.

Table 4
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of Pesticides Results in Groundwater Samples - May 2019

Sample Location:			**BR-3**		**BR-5**		**BR-6**		**BR-7**		**MW-2**		**MW-4DR**		**MW-5**		**MW-6**		**MW-7**		**MW-7D**		**MW-8**		**MW-11**		**MW-13**	
Sample Name:			ML-BR-3		ML-BR-5		ML-BR-6		ML-BR-7		ML-MW-2		ML-MW-4DR		ML-MW-5		ML-MW-6		ML-MW-7		ML-MW-7D		ML-MW-8		ML-MW-11		ML-MW-13	
Laboratory Sample Identification:			480-153772-4		480-153772-5		480-153772-6		480-153772-2		480-153772-14		480-153772-3		480-153772-12		480-153772-9		480-153772-10		480-153772-11		480-153772-8		480-153772-1		480-153772-7	
Sample Date:			05/16/2019		05/16/2019		05/17/2019		05/15/2019		05/15/2019		05/16/2019		05/16/2019		05/15/2019		05/15/2019		05/15/2019		05/16/2019		05/15/2019		05/15/2019	
Pesticides	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
4,4'-DDD	ug/L	0.3	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
4,4'-DDE	ug/L	0.2	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
4,4'-DDT	ug/L	0.2	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	**0.016**	**J**	0.050	U	**0.015**	**J**	0.10	U	**0.015**	**J**	0.050	U
Aldrin	ug/L	ND	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
alpha-BHC	ug/L	0.01	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
alpha-Chlordane	ug/L	0.05(c)	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
beta-BHC	ug/L	0.04	0.050	U	0.050	U	**0.088**	**J**	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	**0.069**	**J**	0.050	U	0.050	U
delta-BHC	ug/L	0.04	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Dieldrin	ug/L	0.004	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endosulfan I	ug/L	NC	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endosulfan II	ug/L	NC	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endosulfan sulfate	ug/L	NC	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endrin	ug/L	ND	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endrin aldehyde	ug/L	5	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Endrin ketone	ug/L	5	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
gamma-BHC (Lindane)	ug/L	0.05	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
trans-Chlordane	ug/L	0.05(c)	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Heptachlor	ug/L	0.04	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Heptachlor epoxide	ug/L	0.03	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Methoxychlor	ug/L	35	0.050	U	0.050	U	0.17	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10	U	0.050	U	0.050	U
Toxaphene	ug/L	0.06	0.50	U	0.50	U	1.7	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U

Notes:

ug/L - micrograms per liter.

J - Estimated value.

NC - No NYSDEC standards exist for this analyte.

ND - A non-detectable concentration.

U - Analyte was not detected at specified quantitation limit.

Values shown in **bold** type indicate a detected analyte.

Shading indicates result above the listed Class GA Value.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.

(c) - Used standard for Chlordane.

Table 5
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of PCB Results in Groundwater Samples - May 2019

Sample Location:			**BR-3**		**BR-5**		**BR-6**		**BR-7**		**MW-2**		**MW-4DR**		**MW-5**		**MW-6**		**MW-7**		**MW-7D**		**MW-8**		**MW-11**		**MW-13**	
Sample Name:			ML-BR-3		ML-BR-5		ML-BR-6		ML-BR-7		ML-MW-2		ML-MW-4DR		ML-MW-5		ML-MW-6		ML-MW-7		ML-MW-7D		ML-MW-8		ML-MW-11		ML-MW-13	
Laboratory Sample Identification:			480-153772-4		480-153772-5		480-153772-6		480-153772-2		480-153772-14		480-153772-3		480-153772-12		480-153772-9		480-153772-10		480-153772-11		480-153772-8		480-153772-1		480-153772-7	
Sample Date:			05/16/2019		05/16/2019		05/17/2019		05/15/2019		05/15/2019		05/16/2019		05/16/2019		05/15/2019		05/15/2019		05/15/2019		05/16/2019		05/15/2019		05/15/2019	
Polychlorinated Bipenyls (PCBs)	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aroclor-1016	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
Aroclor-1221	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
Aroclor-1232	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	**0.76**		0.50	U	0.50	UJ
Aroclor-1242	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
Aroclor-1248	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
Aroclor-1254	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
Aroclor-1260	ug/L	NC	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U	0.50	UJ
PCBs, Total	ug/L	0.09	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	UJ	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	**0.76**		0.50	U	0.50	UJ

Notes:

ug/L - micrograms per liter.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

UJ - Estimated non-detect.

Values shown in **bold** type indicate a detected analyte.

Shading indicates result above the listed Class GA Value.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.

Table 6
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of Metals Results in Groundwater Samples - May 2019

Sample Location:			BR-3		BR-5		BR-6		BR-7		MW-2		MW-4DR		MW-5		MW-6		MW-7		MW-7D		MW-8		MW-11		MW-13	
Sample Name:			ML-BR-3		ML-BR-5		ML-BR-6		ML-BR-7		ML-MW-2		ML-MW-4DR		ML-MW-5		ML-MW-6		ML-MW-7		ML-MW-7D		ML-MW-8		ML-MW-11		ML-MW-13	
Laboratory Sample Identification:			480-153772-4		480-153772-5		480-153772-6		480-153772-2		480-153772-14		480-153772-3		480-153772-12		480-153772-9		480-153772-10		480-153772-11		480-153772-8		480-153772-1		480-153772-7	
Sample Date:			05/16/2019		05/16/2019		05/17/2019		05/15/2019		05/15/2019		05/16/2019		05/16/2019		05/15/2019		05/15/2019		05/15/2019		05/16/2019		05/15/2019		05/15/2019	
Metals, total	Unit	Class GA Value*	Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results		Results	
Aluminum	ug/L	NC	**2,000**		**1,100**		**1,200**		**580**		**310**		**3,200**		**480**		200	U	200	U	200	U	200	U	200	U	**640**	
Antimony	ug/L	3	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Arsenic	ug/L	25	15	U	15	U	**9.8**	**J**	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
Barium	ug/L	1,000	**17**		**20**		**71**		**5.1**		**2.9**		**19**		**9.0**		**6.2**		**16**		**6.9**		**190**		**5.3**		**6.1**	
Beryllium	ug/L	3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Cadmium	ug/L	5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Calcium	ug/L	NC	**57,000**		**24,500**		**124,000**		**21,300**		**39,400**		**51,700**		**34,700**		**7,700**		**69,400**		**83,100**		**121,000**		**3,600**		**5,200**	
Chromium	ug/L	50	**4.0**		**1.9**	**J**	4.0	U	4.0	U	**1.1**	**J**	**6.8**		**1.1**	**J**	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	**1.2**	**J**
Cobalt	ug/L	NC	**1.1**	**J**	4.0	U	4.0	U	4.0	U	4.0	U	**1.1**	**J**	4.0	U	4.0	U	4.0	U	4.0	U	**4.0**		4.0	U	4.0	U
Copper	ug/L	200	**3.2**	**J**	10	U	10	U	10	U	10	U	**3.6**	**J**	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Iron	ug/L	300	**1,700**		**1,000**		**1,200**		**390**		**320**		**2,900**		**330**		**42**	**J**	**330**		**61**		**47,100**		50	U	**510**	
Lead	ug/L	25	**4.7**	**J**	10	U	10	U	10	U	10	U	**3.2**	**J**	10	U	10	U	10	U	10	U	**8.4**	**J**	10	U	10	U
Magnesium	ug/L	NC	**21,700**		**13,500**		**5,400**		**5,500**		**10,400**		**18,100**		**5,200**		**1,200**		**12,800**		**13,900**		**19,600**		**1,200**		**980**	
Manganese	ug/L	300	**790**		**100**		**140**		**75**		**460**		**790**		**26**		**2.7**	**J**	**1,500**		**3,100**		**600**		**3.3**		**12**	
Mercury	ug/L	0.7	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Nickel	ug/L	100	**2.4**	**J**	**3.1**	**J**	**7.1**	**J**	10	U	10	U	**3.3**	**J**	10	U	10	U	10	U	10	U	**23**		10	U	10	U
Potassium	ug/L	NC	**2,000**	**J+**	**5,300**		**4,400**		**750**		**1,000**	**J+**	**2,800**	**J+**	**1,500**	**J+**	500	U	**610**	**J+**	**850**	**J+**	**27,500**		**520**	**J+**	500	U
Selenium	ug/L	10	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U
Silver	ug/L	50	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U	6.0	U
Sodium	ug/L	20,000	**25,000**		**39,700**		**27,400**		**8,600**		**14,300**		**22,200**		**4,200**		**3,300**		**8,200**		**10,800**		**26,300**		**2,100**		**2,400**	
Thallium	ug/L	0.5	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U	20	U
Vanadium	ug/L	NC	**3.5**	**J**	**1.8**	**J**	5.0	U	5.0	U	5.0	U	**5.6**		5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Zinc	ug/L	2,000	**7.2**	**J**	**4.4**	**J**	**2.3**	**J**	**3.4**	**J**	**2.0**	**J**	**8.9**	**J**	**2.8**	**J**	**2.0**	**J**	10	U	10	U	**3.4**	**J**	10	U	**2.6**	**J**

Notes:

ug/L - micrograms per liter.

J - Estimated value.

J+ - Estimated value; biased high.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

Values shown in **bold** type indicate a detected analyte.

Shading indicates result above the listed Class GA Value.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.

Table 7
New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Summary of Emerging Contaminant Results in Groundwater Samples - May 2019

		Sample Location:	**MW-4DR**		**MW-5**		**MW-8**		**MW-13**	
		Sample Name:	ML-MW-4DR		ML-MW-5		ML-MW-8		ML-MW-13	
		Laboratory Sample Identification:	480-153772-3		480-153772-12		480-153772-8		480-153772-7	
		Sample Date:	05/16/2019		05/16/2019		05/16/2019		05/15/2019	
Per- and Polyfluoroalkyl Substances (PFAS)		Guidance Value*	Results		Results		Results		Results	
Perfluorobutanoic acid (PFBA)	ng/L	100	1.7	UJ	8.4	U	32	UJ	1.7	U
Perfluoropentanoic acid (PFPeA)	ng/L	100	1.7	U	**2.5**		**11**	**J+**	1.7	UJ
Perfluorohexanoic acid (PFHxA)	ng/L	100	1.7	U	**2.4**		**27**		1.7	U
Perfluoroheptanoic acid (PFHpA)	ng/L	100	1.7	U	**1.8**		**26**		1.7	U
Perfluorooctanoic acid (PFOA)	ng/L	10	1.7	U	**10**		**120**		**2.9**	
Perfluorononanoic acid (PFNA)	ng/L	100	1.7	U	**1.1**	**J**	8.4	U	1.7	U
Perfluorodecanoic acid (PFDA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluoroundecanoic acid (PFUnA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorododecanoic acid (PFDoA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorotridecanoic acid (PFTriA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorotetradecanoic acid (PFTeA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorobutanesulfonic acid (PFBS)	ng/L	100	1.7	U	**0.72**	**J**	**6**	**J**	**0.65**	**J**
Perfluorohexanesulfonic acid (PFHxS)	ng/L	100	1.7	U	1.7	U	**15**	**J**	**0.78**	**J**
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorooctanesulfonic acid (PFOS)	ng/L	10	1.7	U	**2.1**		**44**	**J**	**3.4**	
Perfluorodecanesulfonic acid (PFDS)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
Perfluorooctane Sulfonamide (PFOSA)	ng/L	100	1.7	U	1.7	U	8.4	U	1.7	U
2-(N-methyl perfluorooctanesulfonamido) acetic acid (N-MeFOSAA)	ng/L	100	17	U	17	U	84	U	17	U
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine (N-EtFOSAA)	ng/L	100	17	U	17	U	**66**	**J**	17	U
6:2 Perfluorooctane Sulfonate (6:2 FTS)	ng/L	100	17	UJ	**4.1**	**J**	84	UJ	17	U
8:2 Perfluorodecane Sulfonate (8:2 FTS)	ng/L	100	17	U	17	U	84	U	17	U
Total PFAS	ng/L	*500*	*ND*		***24.72***		***315***	***J***	*7.73*	
Semivolatile Organic Compounds (SVOCs)	Unit	Guidance Value**								
1,4-Dioxane	ug/L	1	**0.29**		0.19	U	**6.2**		0.19	U

Notes:

ng/L - Nanograms per liter.

ug/L - micrograms per liter.

J - Estimated value.

J+ - Estimated value; biased high.

NA - Not analyzed.

NC - No NYSDEC standards exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

UJ - Estimated non-detect.

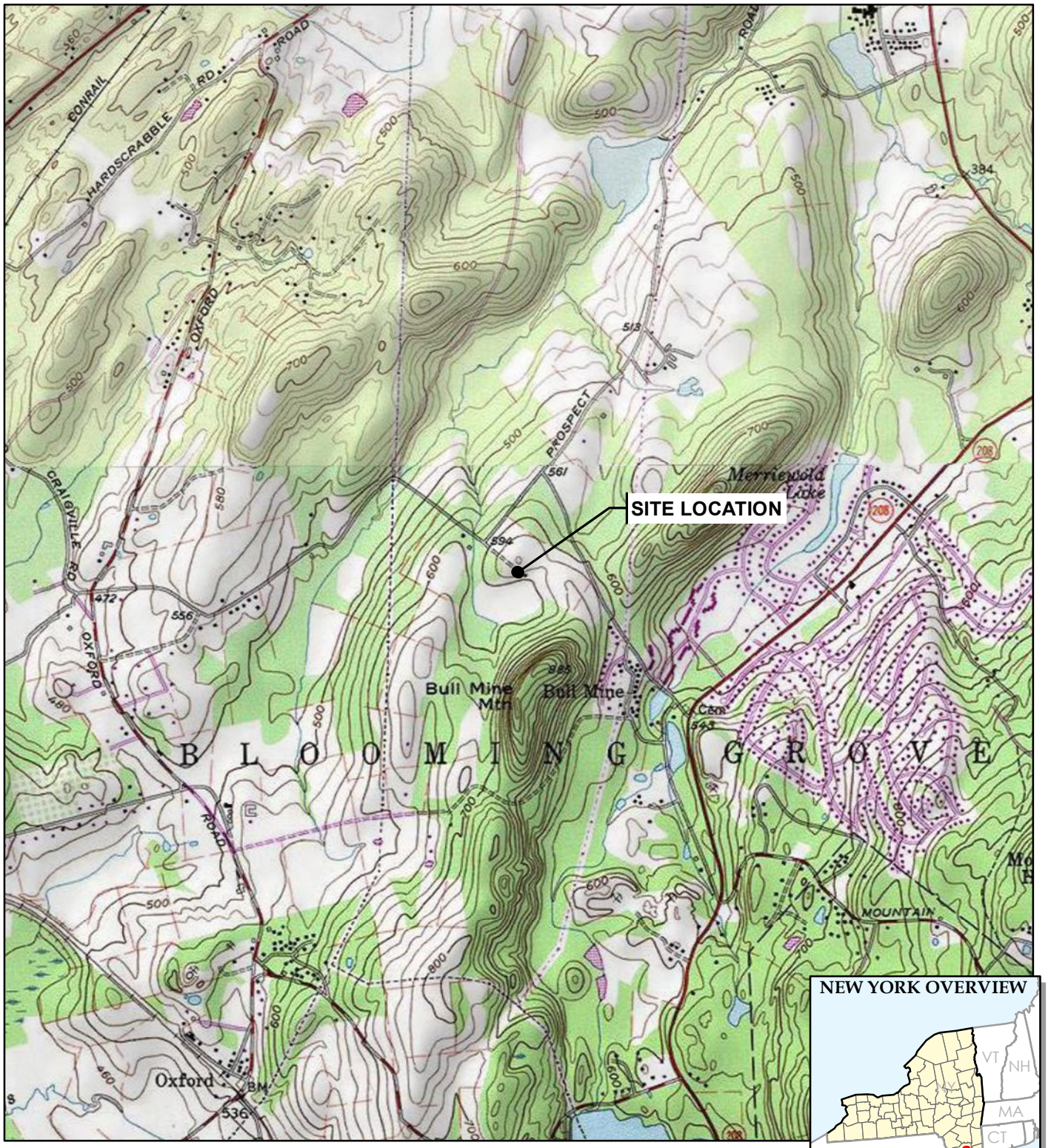
Values shown in **bold** type indicate a detected analyte.

Values shown in bold and shaded type exceed the listed Guidance Value. For PFAS values at or above the Guidance Value are an exceedance.

* - Recommended Guidance Values from the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2020.

** - New York State Drinking Water Quality Council recommended maximum contaminant levels to the New York State Health Commissioner, December 2018.

FIGURES



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES (MONROE).

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

0 2,000 4,000 FEET

TRC
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PROJECT:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAYER LANDFILL SITE - SITE NO. 336027
TOWN OF BLOOMING GROVE, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	M. OPEL
CHECKED BY:	J. KING
APPROVED BY:	N. KRANES
DATE:	APRIL 2020
PROJ. NO.:	320919.0000
FILE:	Fig01_SiteLoc.mxd

FIGURE 1

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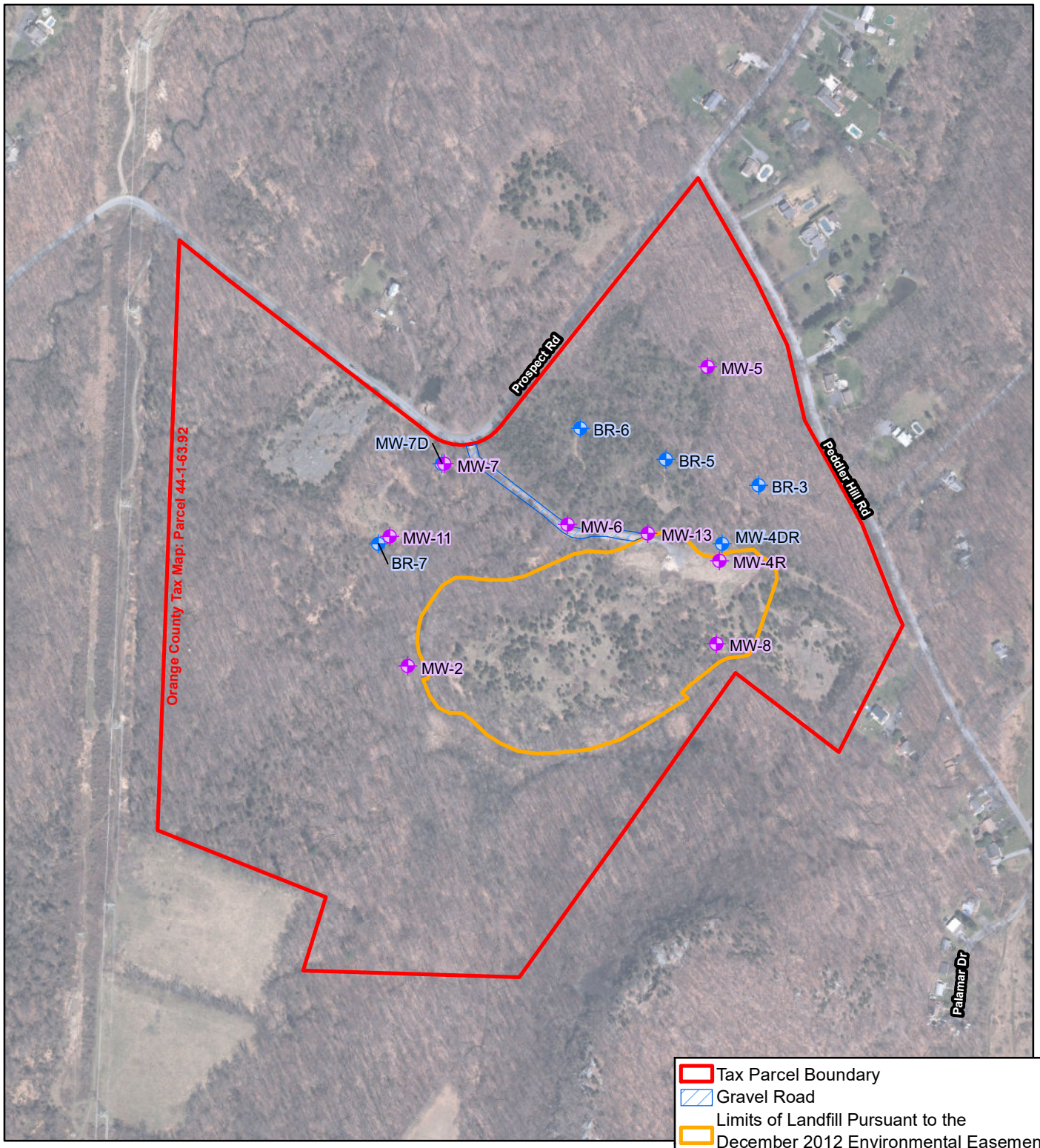

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PROJECT:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAYER LANDFILL SITE - SITE NO. 336027
TOWN OF BLOOMING GROVE, NEW YORK

TITLE:

SITE LAYOUT MAP

DRAWN BY:	M. OPEL
CHECKED BY:	J. KING
APPROVED BY:	N. KRANES
DATE:	APRIL 2020
PROJ. NO.:	320919.0000
FILE:	Fig02_SiteLayout.mxd

FIGURE 2

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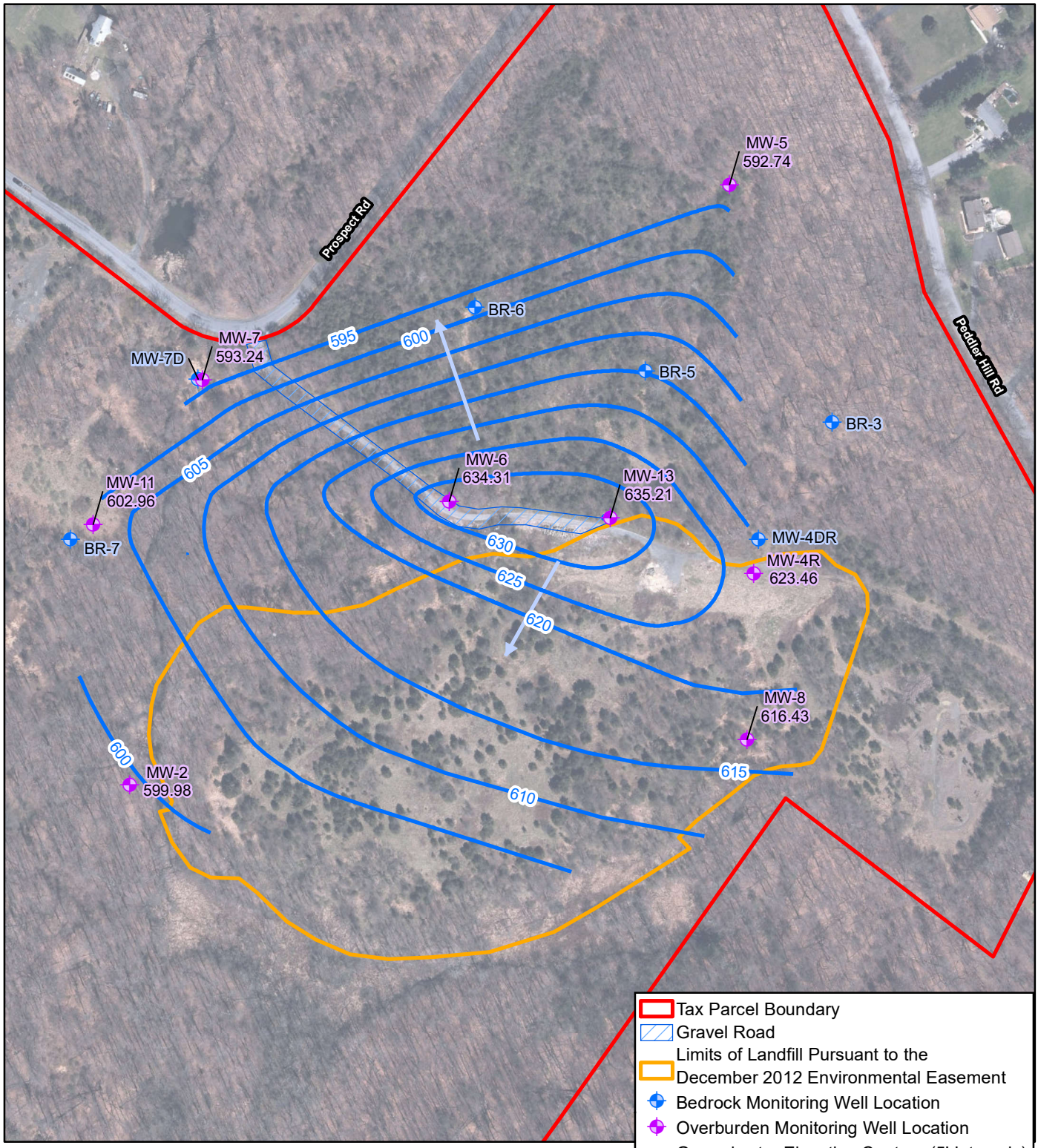

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PROJECT:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAYER LANDFILL SITE - SITE NO. 336027
TOWN OF BLOOMING GROVE, NEW YORK

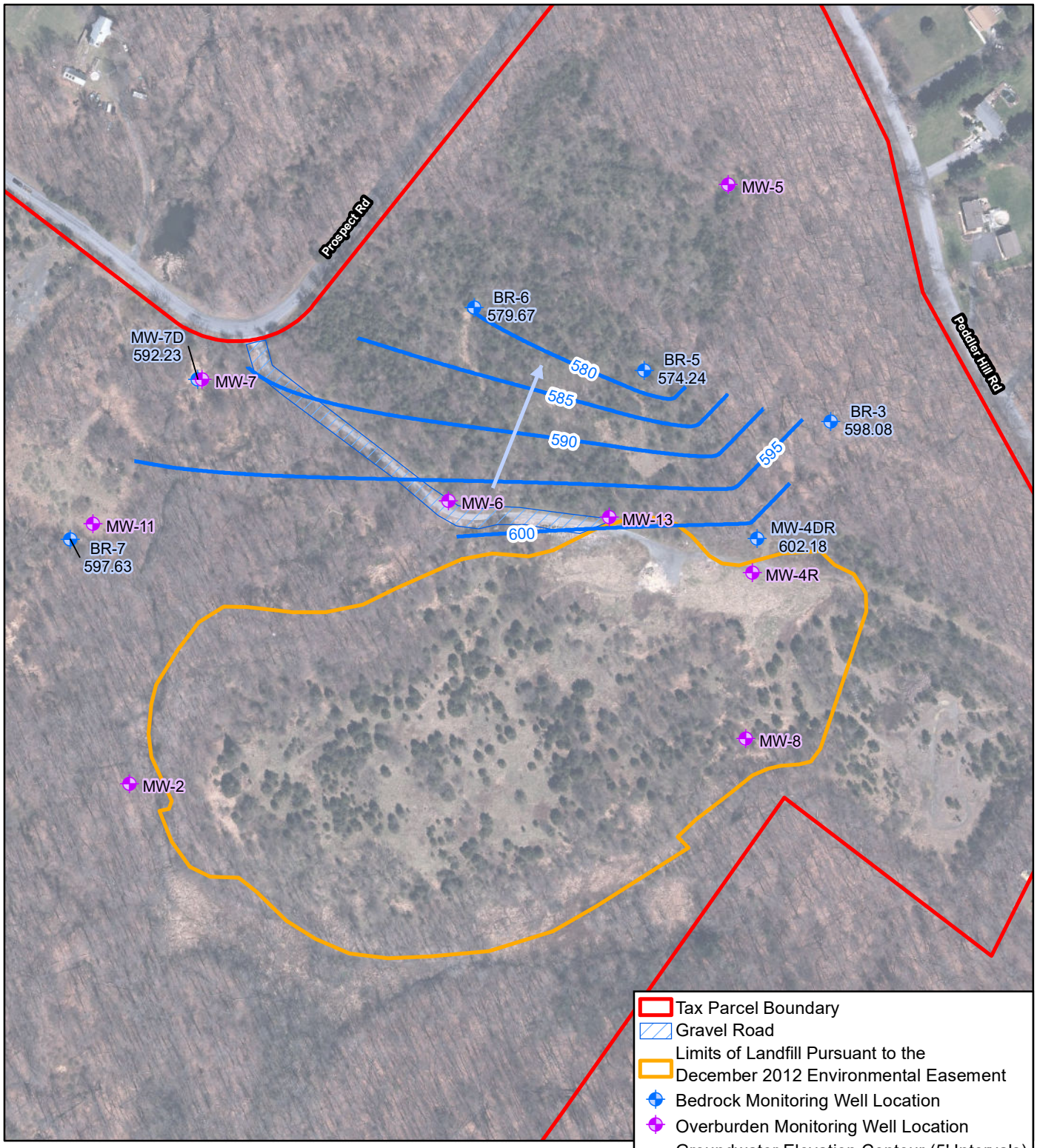
TITLE:

OVERBURDEN GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - MAY 14, 2019

DRAWN BY:	M. OPEL
CHECKED BY:	J. KING
APPROVED BY:	N. KRANES
DATE:	APRIL 2020
PROJ. NO.:	320919.0000
FILE:	Fig03_OverburdenGW.mxd

FIGURE 3

S:\1-PROJECTS\NYSDEC\320919_MayerLandfill\Fig03_OverburdenGW.mxd -- Saved By: MOPEL on 12/19/2019, 09:26:54 AM



TRC
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PROJECT:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAYER LANDFILL SITE - SITE NO. 336027
TOWN OF BLOOMING GROVE, NEW YORK

TITLE:

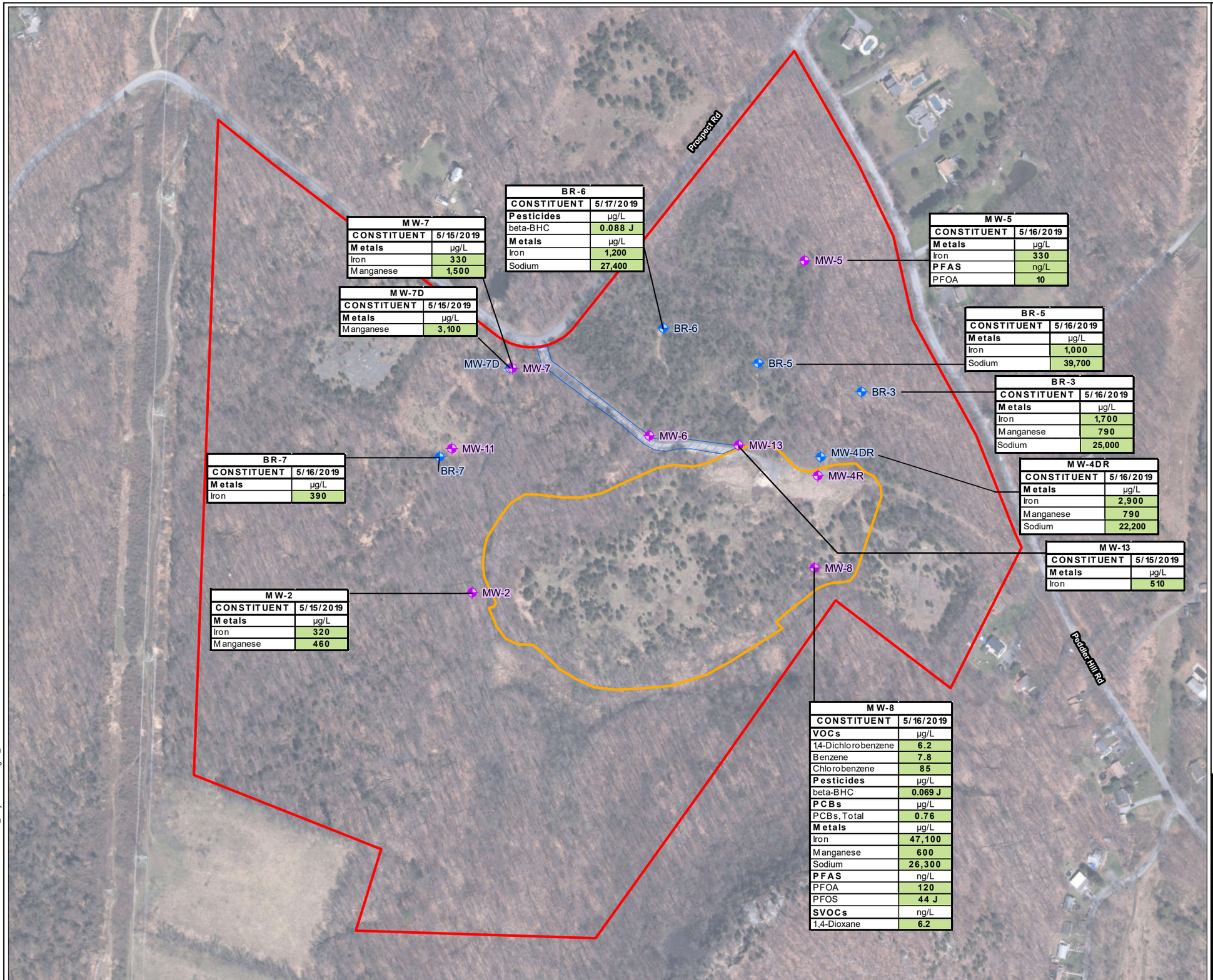
BEDROCK GROUNDWATER SURFACE ELEVATIONS AND FLOW MAP - MAY 14, 2019

DRAWN BY:	M. OPEL
CHECKED BY:	J. KING
APPROVED BY:	N. KRANES
DATE:	APRIL 2020
PROJ. NO.:	320919.0000
FILE:	Fig04_BedrockGW.mxd

FIGURE 4

S:\1-PROJECTS\NYSDEC\320919_MayerLandfill\Fig04_BedrockGW.mxd -- Saved By: SMAJOR on 11/22/2019, 14:31:03 PM

TRC - GIS



Tax Parcel Boundary

Gravel Road

Limits of Landfill Pursuant to the December 2012 Environmental Easement Bedrock Monitoring Well Location

Overburden Monitoring Well Location

CONSTITUENT	Class GA Value
VOCs	µg/L
1,4-Dichlorobenzene	3
Benzene	1
Pesticides	µg/L
beta-BHC	0.04
PCBs	µg/L
PCBs, Total	0.09
Metals	µg/L
Iron	300
Manganese	300
Sodium	20,000
PFAS	ng/L
PFOA	10*
PFOS	10*
Total PFAS	500*
SVOCs	ng/L
1,4-Dioxane	1**

LIST OF ACRONYMS

µg/L - micrograms per liter
ng/L - nanograms per liter
J - Estimated value
VOCs - Volatile organic compounds
PCBs -Polychlorinated biphenyls
PFAS - Per- and polyfluoroalkyl substances
PFOA - Perfluorooctanoic acid
PFOS - Perfluorooctanesulfonic acid
Values in **bold** indicate the compound was detected.
Shading indicates result above Class GA Value.
NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water.
* - Recommended Guidance Values from the Guidelines for Sampling and Analysis of PFAS Under NYSDEC's Part 375 Remedial Programs, January 2020.
** - New York State Drinking Water Quality Council recommended maximum contaminant levels to the New York State Health Commissioner, December 2018.

NOTES

1. All samples were submitted for TCL VOCs, TCL SVOCs, TCL Pesticides, TAL metals and mercury, and PCBs.
2. Only MW-4DR, MW-5, MW-8, and MW-13 were selected for 1,4-dioxane and PFAS analysis.
3. Only detected compounds which exceed the NYSDEC Class GA Values are shown.
4. All locations and boundaries are approximate.

0 200 400 Feet

1 " = 300 '
1:3,600

PROJECT:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAYER LANDFILL SITE - SITE NO. 336027
TOWN OF BLOOMING GROVE, NEW YORK

TITLE:

SUMMARY OF DETECTED COMPOUNDS EXCEEDING NYSDEC GROUNDWATER QUALITY STANDARDS/GUIDANCE - MAY 15-17, 2019

DRAWN BY:	M. OPEL	PROJ NO.:	320919.0000
CHECKED BY:	J. KING		
APPROVED BY:	N. KRANES		**FIGURE 5**
DATE:	APRIL 2020		

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FILE NO.: Fig05_SumExceed.mxd

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APPENDIX A

SITE HISTORY

MAYER LANDFILL SITE (NYSDEC SITE NO. 336027)

Date	Description
1949	The Mayer Landfill begins operations as an open-face dump with periodic refuse burning.
1953	Approximately 3 acres of land was used as a dump, accepting approximately 180 cubic yards a week of refuse.
1956	Part of the landfill is designed as a public dump.
1961	The landfill occupied approximately 8 acres and was receiving approximately 386 cubic yards a week of refuse.
1965	The Mayer Landfill is ordered to stop burning and the operator begins compacting/covering waste.
1968	The landfill was reported to occupy 13 acres and accept 1,000 cubic yards of waste per week.
Early 1970s	The Orange County Department of Health (OCDOH) cited the Site for mismanagement. Violations included inadequate compacting and covering of wastes, waste piled too high and steep, and poor use of space.
January 1975	An OCDOH survey approximated the waste volume received by the Mayer Landfill to be 5,045 cubic yards per week.
April 1975	The Mayer Landfill ceased operations due to failure to comply with State and County regulations.
1975	The OCDOH conducted an initial Site investigation of surface water. Analytical results indicated elevated zinc concentrations in a wet area located south of the Site.
1985	The New York State Department of Environmental Conservation (NYSDEC) listed the Mayer Landfill on the NYS Registry of Inactive Hazardous Waste Disposal Sites as a Class 2a site.
June 1987	The NYSDEC completed a Phase I investigation which concluded that a Phase II investigation was required.
April 1987	The New York State Department of Health (NYSDOH) completed a Human Exposure Potential Ranking Hazardous Waste Site Inspection Form for the Mayer Landfill. Additionally, State and County officials sampled five private drinking wells in the Site's vicinity, no contamination was found.
1989 - 1991	To resolve the Class 2a status, a Phase II Investigation was conducted and found several organic compounds exceeding groundwater standards in one monitoring well.
1991	The NYSDEC listed the Site as a Class 2 site in the Registry.
2000 - 2002	A remedial investigation/feasibility study (RI/FS) was conducted at the Site to determine the nature and extent of contamination and evaluate remedial alternatives.

January 2005	The NYSDEC issues a Record of Decision (ROD) which identified limited soil excavation of light non-aqueous liquid (LNAPL) and groundwater monitoring as the selected remedy.
July 2007	Further subsurface and groundwater investigations were performed to further delineate impacted waste. This additional work showed that the LNAPL contaminated soil volume was significantly greater than estimated in the ROD.
January 2008	A Basis of Design report was prepared and revealed that volatile organic compounds (VOC) and metals were the main contaminants of concern (COCs).
October 2008 – June 2009	Remedial activities, in accordance with the NYSDEC approved May 2008 Remedial Design (RD) were completed. Activities included the removal of 7,688 tons of impacted waste, cover system installation, monitoring well decommissioning/installations, execution of an Environmental Easement, and development/implementation of a Site Management Plan (SMP).
October 2010	The NYSDEC approves the SMP which includes long-term groundwater monitoring, existing cover maintenance, future excavation management, exclusion against future residential or restricted-residential uses, and a prohibition of groundwater for portable or process use without treatment.
June 2011	An Environmental Notice for the entire parcel was filed with the Orange County Clerk's Office.
October 2011	The NYSDEC listed the Site as a Class 4 site in the Registry.
December 2012	An Environmental Easement was placed on the property and recorded by Orange County in March 2013. While the tax parcel containing the Site is approximately 103 acres, the easement only applies to 15 acres (13 acres of landfill and 2 acres of buffer as delineated by the Environmental Easement survey.
April 2015	The SMP was revised to include plans for long term groundwater monitoring.
June 2019	An annual site inspection and groundwater monitoring program, in accordance with the April 2015 SMP was completed.

CUSTODIAL RECORD/PERTINENT SITE DOCUMENTS

MAYER LANDFILL SITE (NYSDEC SITE NO. 336027)

EA Science and Technology (EA), *Phase I Investigation*, Mayer Landfill Site, June 1987

Lawler, Matusky & Skelly Engineers (LMS), *Phase II Investigation*, Mayer Landfill Site, June 1991

Environmental Resources Management (ERM), *Work Plan for the Remedial Investigation/Feasibility Study*, Mayer Landfill Site, August 1999

ERM, *Remedial Investigation (RI) Report*, Mayer Landfill Site, March 2001

ERM, *Supplemental RI Work Plan,* Mayer Landfill Site, June 2001

ERM, *Supplemental RI Report*, Mayer Landfill Site, April 2002

ERM, *Final Feasibility Study (FS) Report*, Mayer Landfill Site, July 2002

NYSDEC, *Proposed Remedial Action Plan*, Mayer Landfill Site, November 2004

NYSDEC, *Record of Decision (ROD)*, Mayer Landfill Site, January 2005

EA, *Remedial Design/Remedial Action Work Plan*, Mayer Landfill Site, June 2007

EA, *Basis of Design Report*, Mayer Landfill Site, January 2008

NYSDEC, *Explanation of Significant Differences*, September 2008

EA, *Final Engineering Report (FER)*, Mayer Landfill Site, November 2009

EA, *Site Management Plan (SMP)*, Mayer Landfill Site, September 2010

EA, *SMP (Rev. 1)*, Mayer Landfill Site, October 2010

NYSDEC, *Site Classification Report*, Mayer Landfill Site, October 2011

NYSDEC, *Environmental Easement*, Site No. 336027, December 2012

EA, *SMP (Rev. 2)*, Mayer Landfill Site, April 2015

NYSDEC, *Periodic Review Report (PRR) for January 1, 2012 through April 15, 2015*, Mayer Landfill Site, October 2015

New York State Department of Environmental Conservation
Mayer Landfill Site - Site No. 336027
Town of Blooming Grove, New York
Monitoring Well Construction Summary

Well ID	Installation Date	Well Dia. (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	*Screen*			*Elevation (feet AMSL)*				*Location*	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	Casing Top	Ground Surface	Screen		Northing (feet)	Easting (feet)
											Top	Bottom		
BR-3	6/2/2009	3	Open	63.5	Bedrock	43.50	63.50	20	609.13	607.10	563.60	543.60	924783.35	574589.26
BR-5	6/5/2009	3	Open	92.5	Bedrock	72.50	92.50	20	623.92	622.38	549.88	529.88	924873.92	574261.84
BR-6	6/11/2009	3	Open	99.0	Bedrock	79.00	99.00	20	621.03	619.54	540.54	520.54	924984.44	573961.91
BR-7	6/16/2009	3	Open	43.5	Bedrock	23.50	43.50	20	606.01	604.66	581.16	561.16	924577.18	573252.55
MW-4DR	5/29/2009	3	PVC	76.0	Bedrock	56.00	76.00	20	627.08	625.96	569.96	549.96	924578.06	574460.15
MW-7D	2/29/2000	6	Open	29.5	Bedrock	14.50	29.50	15	593.21	591.01	576.51	561.51	924858.82	573476.25
MW-2	1/11/1990	2	PVC	65.4	Overburden/Bedrock Interface	55.40	65.40	10	601.23	598.50	543.10	533.10	924146.56	573356.27
MW-4R	4/28/2009	2	PVC	20.0	Overburden	8.00	20.00	12	630.18	628.32	620.32	608.32	924517.53	574451.28
MW-5	1/12/1990	2	PVC	13.0	Overburden	4.95	12.95	8	595.79	593.25	588.30	580.30	925199.82	574409.07
MW-6	2/11/2000	2	PVC	17.0	Overburden	7.00	17.00	10	641.57	639.52	632.52	622.52	924644.22	573917.33
MW-7	2/29/2000	2	PVC	14.5	Overburden	4.50	14.50	10	593.24	591.21	586.71	576.71	924857.86	573483.64
MW-8	2/17/2000	2	PVC	21.5	Overburden	11.50	21.50	10	626.35	624.07	612.57	602.57	924226.04	574440.18
MW-11	3/2/2000	2	PVC	19.5	Overburden	9.50	19.50	10	604.81	602.89	593.39	583.39	924603.52	573292.26
MW-13	3/2/2000	2	PVC	16.0	Overburden	6.00	16.00	10	639.79	637.55	631.55	621.55	924615.08	574199.46

Notes
AMSL : above mean sea level
feet bgs : feet below ground surface
PVC : polyvinyl chloride

APPENDIX B

TRC		**DATE: Wednesday, May 15, 2019**
		REPORT NO. 20190515
		PAGE NO. 1 OF 2
		PROJECT NO. 320919.0000.0000
		LOGBOOK NO. -- PAGES -- to --

DAILY FIELD ACTIVITY REPORT

PROJECT	Mayer Landfill
LOCATION	Blooming Grove, New York
ATTACHMENTS	Photo Log, Drum location figure

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Clear	0900	60°F	None	0-5	ENE
Partly Cloudy	1400	70°F	None	0-5	ENE

SITE CONDITIONS: Wet

WORK GOAL FOR DAY: Site inspection and groundwater sampling

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Steve Johansson	TRC Engineers, Inc.	07:30	19:00
Nate Peterson	TRC Engineers, Inc.	07:30	19:00
Nate Kranes	TRC Engineers, Inc.	10:00	18:00
Robert Strang	NYSDEC	10:00	14:00

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
PID	MiniRAE 3000		
Peristaltic Pump	Geotech		
Oil/Water Interface Probe	Heron		
YSI X 2	YSI Pro DSS		
Bladder Pump	QED Sample Pro		

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Ryan Jorrey

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Wednesday, May 15, 2019**
		REPORT NO. 20190515
		PAGE NO. 2 OF 2
		PROJECT NO. 320919.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) met with the New York State Department of Environmental Conservation (NYSDEC) to conduct an annual site inspection and groundwater sampling event of the Mayer Landfill Site (Site) located off Prospect Road, in the Town of Blooming Grove, NY on May 15, 2019. The objective of the site inspection was to document the general site conditions, evaluate the condition of the groundwater monitoring wells and conduct a drum survey to document the location of drums found on-site.

During the site inspection and groundwater monitoring well gauging and sampling event, TRC was able to locate all fourteen monitoring wells (MW-11, BR-7, MW-4R, MW-4DR, BR-3, BR-5, BR-6, MW-13, MW-8, MW-6, MW-7, MW-7D, MW-2 and MW-5). Monitoring wells MW-11, BR-7, BR-5, BR-6, MW-13, MW-6, MW-7, MW-7D, MW-2 and MW-5 were difficult to locate because they were either set far back into the dense woods or surrounded by overgrowth and heavy vegetation. All wells (and paths to the wells) were flagged with orange survey tape. The wells appear to be generally in good shape. Some wells had broken, or missing wells plugs that were replaced while on-site. TRC determined that MW-4R was not able to be sampled due to a large amount of NAPL discovered in the well (see photo log). All the locks on the protective casings were rusted shut and were cut from the casings and replaced with new Master Lock® with key code 2537.

The soil cover on the northeast portion of the landfill which covers the area excavated during the remedial action was in good condition. Vegetation was well established with grasses and other primary growth. The remaining portion of the landfill was also well vegetated with mostly grassy area on the upper, flat portion of the landfill, and dense tree stands and shrubs on the lower, sloping portions of the landfill. One seep was noted during the inspection on the lower portion of the eastern berm, adjacent to the stream and in proximity to MW-2 (see photo log).

A drum survey was also conducted while completing the site inspection. Seven (7) drums were located on-site. Please see attached PDF for locations of drums found on-site. The condition of most of the drums found on-site were rusted and very degraded. The drums appear to be empty and were colocated in areas where there are also piles of scrap metal. One drum located near MW-4DR did appear to contain material, which is most likely soil cuttings associated with the installation of MW-4DR, although the drum could not be opened to determine the contents.

TRC conducted a groundwater gauging event of all fourteen wells. Following the gauging event, TRC collected groundwater samples from thirteen of the fourteen wells utilizing USEPA low-flow sampling methods. Monitoring well MW-4R was not sampled due to the viscous NAPL that prevented the tubing from reaching the screened section of the well and also plugged the end of the sample tubing.

After completing the groundwater sampling on May 17, 2019, TRC demobilized from the site and submitted the samples to Test America Laboratories. Thirteen groundwater samples were submitted for analysis using EPA method 8260 for Target Compound List (TCL) volatile organic compounds (VOCs) plus 10 Tentatively Identified Compounds (TICs), EPA method 8270 for TCL semivolatile organic compounds (SVOCs) plus 20 TICs, EPA method 8081 for TCL pesticides, EPA method 8082 for TCL polychlorinated biphenyl (PCBs), EPA method 6010 for Target Analyte List (TAL) metals and EPA method 7470 for mercury. Four groundwater samples were submitted for analysis using EPA method 8270 SIM for 1, 4-dioxane and EPA method 537 modified for full TAL PFAS.

PRINT NAME: Steve Johansson	**PRINT NAME:** Nate Kranes

NYSDEC Mayer Landfill
Photograph Log
Date: May 15, 2019

Photo 1: Looking southeast. View of the site entry gate.

Photo 2: Looking east. View of MW-08.

Photo 3: Looking southeast. View of drums and other debris found onsite.

Photo 4: Looking south. View of product found on tubing placed into MW-4R.

NYSDEC Mayer Landfill
Photograph Log
Date: May 15, 2019

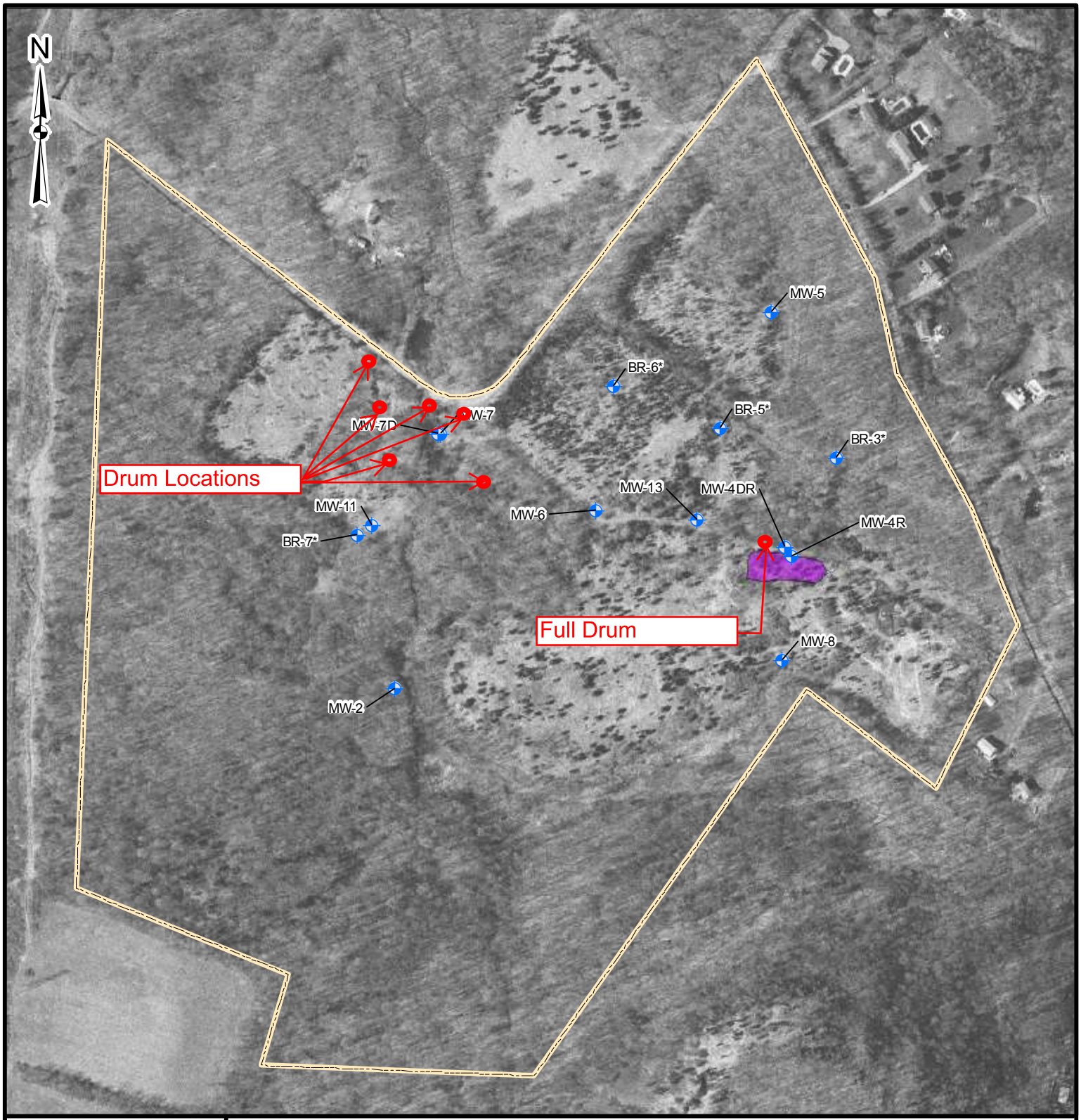
Photo 5: Looking east at well BR-3. Locks on all wells were rusted closed and needed to be cut and replaced. New locks are Master Lock® with key code 2537.

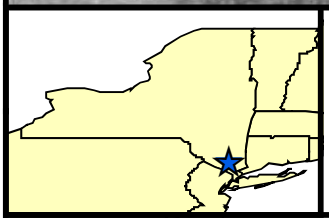
Photo 6: View of well MW-7. Artesian conditions noted in well and staining on casing due to artesian flow out of monitoring well.

Photo 7: Looking east. View of seep on eastern berm of site draining into creek.

Photo 7: Full drum near MW-4BR. Contents most likely soil cuttings from nearby monitoring well.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	
320919.0000 .0000	Steve Johansson	2 of 2	NYSDEC	Mayer Landfill Blooming Grove, NY	TRC





Legend

- Boundary
- Excavation Area
- Monitoring Wells
- BR-3 Location of new bedrock well

0 250 500 1,000 Feet

Source: New York State GIS Clearinghouse

MAYER LANDFILL SITE (3-36-027)
SITE MANAGEMENT PLAN
BLOOMING GROVE, NEW YORK

FIGURE 2
SITE MAP

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	FILE NO:
CJC	MES	MJS	SAF	AS SHOWN	SEPTEMBER 2010	14474.03	GIS/PROJECTS/ FIGURE2.MXD

APPENDIX C

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-BR-3
SAMPLE TIME	14:55

LOCATION ID	BR-3
DATE	5/16/2019
START TIME	14:00
END TIME	14:55
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3" Dia.: Bedrock - Open hole

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	10.53 FT	**FINAL DTW (BMP)**	12.63 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	62.00 FT	**SCREEN LENGTH**	20 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	51.47 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.77 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	18.99 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**	2.10	**PRESSURE TO PUMP**	40 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
1400	**BEGIN PURGING**									
1410	11.69	250	10.3	0.537	8.17	1.76	87.5	80.7		
1420	12.08	250	10.2	0.537	8.07	1.26	108.5	76.3		
1430	12.33	250	10.3	0.538	8.03	0.98	87.3	59.7		
1435	12.45	250	10.3	0.537	8.02	0.88	72.1	52		
1440	12.51	250	10.5	0.538	8.01	0.82	63.6	45.6		
1445	12.56	250	10.4	0.538	8	0.85	62.3	41.2		
1450	12.6	250	10.4	0.538	8	0.81	63.6	38.9		
1455	12.63	250	10.4	0.539	7.99	0.78	61.9	36.7		
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**10.4**	**0.539**	**7.99**	**0.78**	**61.9**	**36.7**		

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
- ☐ 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
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

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

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☐ WQ METER
- ☐ TURB. METER
- ☐ 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	☐	☒
NO-PURGE METHOD UTILIZED	☐	☐

NUMBER OF GALLONS GENERATED: 2.93

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-BR-5
SAMPLE TIME	16:55

LOCATION ID	BR-5
DATE	5/16/2019
START TIME	15:55
END TIME	16:55
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3" Dia.: Bedrock - Open hole

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED			
COLLAR			

INITIAL DTW (BMP)	48.08 FT	**FINAL DTW (BMP)**	56.91 FT	**PROT. CASING STICKUP (AGS)**	1.54 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	91.95 FT	**SCREEN LENGTH**	20 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	43.87 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	3.26 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	16.19 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.25 GAL	**DRAWDOWN/ TOTAL PURGED**	8.83	**PRESSURE TO PUMP**	65 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
1555	**BEGIN PURGING**									
1605	50.35	250	11.2	0.509	9.2	1.27	39.7	58.3		
1615	52.15	250	11.1	0.425	9.75	1.91	21.9	50.2		
1625	54.08	250	11	0.388	10.16	2.65	22.2	61.3		
1630	54.82	250	11	0.382	10.25	2.87	24.1	64.6		
1635	55.46	250	10.9	0.377	10.3	3.06	21.6	67.2		
1640	56.14	250	10.9	0.376	10.33	3.26	23.3	70		
1645	56.62	250	10.9	0.375	10.35	3.42	24.9	70.9		
1650	56.81	250	10.9	0.376	10.35	3.48	25.3	71.3		
1655	56.91	250	10.8	0.377	10.31	3.44	24.7	70.6		
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**10.8**	**0.377**	**10.31**	**3.44**	**24.7**	**70.6**		

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
- ☐ 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
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

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

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☐ WQ METER
- ☐ TURB. METER
- ☐ 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☒

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐

NUMBER OF GALLONS GENERATED: 3.25

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-BR-6
SAMPLE TIME	19:00

LOCATION ID	BR-6
DATE	5/16/2019
START TIME	18:05
END TIME	19:00
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3" Dia.: Bedrock - Open hole

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☐ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED			
COLLAR			

INITIAL DTW (BMP)	39.68 FT	**FINAL DTW (BMP)**	48.9 FT	**PROT. CASING STICKUP (AGS)**	1.49 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	85.92 FT	**SCREEN LENGTH**	20 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	46.24 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	3.40 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	17.06 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**	9.22	**PRESSURE TO PUMP**	65 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
1805	**BEGIN PURGING**									
1815	42.14	250	10.7	1.778	12.93	3.73	6.8	22.3		
1825	44.33	250	10.6	1.801	13.1	3.65	6.6	8.8		
1835	46.35	250	10.6	1.752	13.16	3.51	8.2	7.8		
1840	47.45	250	10.5	1.737	13.18	3.46	8.3	9.1		
1845	48	250	10.5	1.674	13.17	3.38	10.3	10.5		
1850	48.7	250	10.5	1.622	13.17	3.26	13	12.4		
1855	48.8	250	10.6	1.616	13.17	3.25	14.1	13.7		
1900	48.9	250	10.6	1.61	13.17	3.25	14.2	13.9		

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

10.6	**1.61**	**13.17**	**3.25**	**14.2**	**13.9**	

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
- ☐ 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
- ☐ HDPE TUBING
- ☐ LDPE TUBING
- ☐ OTHER
- ☐ OTHER

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

EQUIPMENT USED
- ☐ WL METER
- ☐ PID
- ☐ WQ METER
- ☐ TURB. METER
- ☐ 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES ☐ NO ☒

NO-PURGE METHOD UTILIZED: YES ☐ NO ☐

NUMBER OF GALLONS GENERATED: 2.93

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-BR-7
SAMPLE TIME	14:00

LOCATION ID	BR-7
DATE	5/15/2019
START TIME	12:30
END TIME	14:00
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☐ 2 ☐ 4 ☐ 6 ☐ 8 ☒ OTHER 3" Dia.: Bedrock - Open hole

TUBING ID (INCHES) ☐ 1/8 ☒ 1/4 ☐ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED			
COLLAR			

INITIAL DTW (BMP)	8.36 FT	**FINAL DTW (BMP)**	21.41 FT	**PROT. CASING STICKUP (AGS)**	1.35 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	44.4 FT	**SCREEN LENGTH**	20 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	36.04 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	4.82 GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	13.30 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	7.8 GAL	**DRAWDOWN/ TOTAL PURGED**	13.05	**PRESSURE TO PUMP**	35 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
1230	**BEGIN PURGING**									
1240	12.39	250	10.1	0.228	8.7	2.97	4.3	81.2		
1250	13.55	200	10	0.215	8.42	3.32	4.8	105.4		
1300	15.1	200	9.9	0.21	8.19	3.43	5.3	128.7		
1305	15.64	200	9.9	0.21	8.13	3.42	6.2	135.6		
1310	16.21	200	9.9	0.209	8.08	3.42	6.9	142.3		
1315	16.86	200	10	0.208	8.02	3.4	7.7	148.6		
1320	17.28	200	10	0.208	7.99	3.4	8.6	154.5		
1325	17.96	200	10	0.207	7.95	3.37	9	162.2		
1330	18.45	200	10.1	0.205	7.9	3.37	9.4	166.6		
1335	18.76	200	10.1	0.204	7.88	3.37	9.3	169.2		
1340	19.04	200	10.2	0.203	7.85	3.37	9.9	174.4		
1345	19.43	200	10.1	0.202	7.83	3.36	10.1	176.3		
1350	19.77	200	10.2	0.201	7.8	3.34	10.6	181.3		
1355	21.18	200	10.2	0.2	7.77	3.31	11.2	186.2		
1400	21.41	200	102	0.199	7.75	3.31	11.4	190.3		
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**102**	**0.199**	**7.75**	**3.31**	**11.4**	**190.3**		

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☐ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☐ WQ METER
	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☐ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES ☐ NO ☒

NO-PURGE METHOD UTILIZED YES ☐ NO ☐

NUMBER OF GALLONS GENERATED 7.8

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-2
SAMPLE TIME	15:45

LOCATION ID	MW-2
DATE	5/15/2019
START TIME	15:05
END TIME	15:45
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
CASING			
LOCKED			
COLLAR			

INITIAL DTW (BMP)	1.25 FT	**FINAL DTW (BMP)**	2.4 FT	**PROT. CASING STICKUP (AGS)**	2.73 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	65.4 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	64.15 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	2.20 GAL	**PID WELL MOUTH**	PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	10.52 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.95 GAL	**DRAWDOWN/ TOTAL PURGED**	1.15	**PRESSURE TO PUMP**	35 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
1505	**BEGIN PURGING**									
1515	2.09	250	10.5	0.335	8.05	1.23	14.9	19.5		
1525	2.26	250	10.4	0.336	8.04	1.32	13.2	14.9		
1535	2.31	250	10.3	0.336	8.05	1.41	12.9	24.6		
1540	2.36	250	10.3	0.336	8.06	1.43	14	29		
1545	2.4	250	10.3	0.336	8.06	1.45	13.8	32.6		
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**10.3**	**0.336**	**8.06**	**1.45**	**13.8**	**32.6**		

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
- [ ] 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
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

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

EQUIPMENT USED
- [ ] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 1.95

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-4DR
SAMPLE TIME	12:25

LOCATION ID	MW-4DR
DATE	5/16/2019
START TIME	11:30
END TIME	12:25
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER 3" Dia.

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			
COLLAR			

INITIAL DTW (BMP)	24.65 FT	**FINAL DTW (BMP)**	25.93 FT	**PROT. CASING STICKUP (AGS)**	FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	75.90 FT	**SCREEN LENGTH**	20 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	10 SEC
WATER COLUMN	51.25 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.47 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	5 SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	18.91 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**	1.28	**PRESSURE TO PUMP**	42 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
1130	**BEGIN PURGING**									
1140	25.84	250	11.3	0.449	8.13	0.59	515	-20.9		
1150	25.9	250	11.3	0.449	8.07	0.49	188	-24.2		
1200	25.91	250	11.2	0.45	8.05	0.41	125	-18.8		
1205	25.91	250	11.3	0.452	8.04	0.39	99	-14.4		
1210	25.92	250	11.3	0.452	8.03	0.38	83.9	-12.6		
1215	25.92	250	11.4	0.453	8.03	0.37	78.8	-11.3		
1220	25.92	250	11.3	0.454	8.03	0.36	79.2	-10.6		
1225	25.93	250	11.3	0.454	8.03	0.36	81.1	-9.8		

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

	11.3	**0.454**	**8.03**	**0.36**	**81.1**	**-9.8**

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
- [ ] 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
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

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

EQUIPMENT USED
- [ ] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
X	PFAS (list of 21 compounds)	537 Modified	No	None		Yes	No	
X	1,4-dioxane	8270D SIM	No	None		Yes	No	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 2.93

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-5
SAMPLE TIME	15:30

LOCATION ID	MW-5
DATE	5/16/2019
START TIME	14:00
END TIME	15:30
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
COLLAR			

INITIAL DTW (BMP)	2.95 FT	**FINAL DTW (BMP)**	7.36 FT	**PROT. CASING STICKUP (AGS)**	2.54 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	13.2 FT	**SCREEN LENGTH**	8 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	10.25 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	1.63 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	3.78 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	4.16 GAL	**DRAWDOWN/ TOTAL PURGED**	4.41	**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
1400	**BEGIN PURGING**									
1410	5.25	200	10.4	0.259	7.57	0.57	9.9	41.5	12	Clear, no odor
1415	6.39	200	10.1	0.254	7.49	0.52	12.9	48.4	12	SAA
1420	6.79	200	10.5	0.25	7.48	0.87	9.4	53.3	12	SAA
1425	7.08	200	10.6	0.247	7.5	1.75	8.1	58.6	12	SAA
1430	7.23	200	10.9	0.247	7.52	1.98	9.2	62.1	12	SAA
1435	7.35	200	11	0.247	7.52	2.03	10.3	65.8	12	SAA
1440	7.36	200	11.6	0.247	7.51	1.9	12.3	68.3	12	SAA
1445	7.36	200	11.7	0.248	7.51	1.89	12.2	71.3	12	SAA
1530	7.36	200	11.8	0.248	7.51	1.86	10.9	75.4	12	SAA

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

	11.8	**0.248**	**7.51**	**1.86**	**10.9**	**75.4**

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
- [ ] 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
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

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

EQUIPMENT USED
- [ ] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
X	PFAS (list of 21 compounds)	537 Modified	No	None		Yes	No	
X	1,4-dioxane	8270D SIM	No	None		Yes	No	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 4.16

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-6
SAMPLE TIME	15:20

LOCATION ID	MW-6
DATE	5/15/2019
START TIME	14:35
END TIME	15:20
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) ☐ 1 ☒ 2 ☐ 4 ☐ 6 ☐ 8 ☐ OTHER

TUBING ID (INCHES) ☐ 1/8 ☐ 1/4 ☒ 3/8 ☐ 1/2 ☐ 5/8 ☐ OTHER

MEASUREMENT POINT (MP) ☐ TOP OF RISER (TOR) ☒ TOP OF CASING (TOC) ☐ OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED			
COLLAR			

INITIAL DTW (BMP)	7.51 FT	**FINAL DTW (BMP)**	8.23 FT	**PROT. CASING STICKUP (AGS)**	2.03 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	17 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	9.49 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.12 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.56 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**	0.72	**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
1435	**BEGIN PURGING**									
1450	8.23	250	10.5	0.089	5.94	7.2	2.3	164.6		Clear, no odor
1455	8.23	250	10.4	0.076	5.78	7.2	2.2	183.3		SAA
1500	8.23	250	10.3	0.069	5.71	7.26	2.4	191.3		SAA
1505	8.23	250	10.1	0.076	5.79	7.28	2.3	198.7		SAA
1510	8.23	250	10.2	0.075	5.78	7.17	2.1	204.3		SAA
1515	8.23	250	9.9	0.073	5.73	7.21	2.1	208.3		SAA
1520	8.23	250	9.9	0.075	5.73	7.24	2.1	212.6		SAA

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

9.9	**0.075**	**5.73**	**7.24**	**2.1**	**212.6**	

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
☐ PERISTALTIC	☐ LIQUINOX	☐ SILICON TUBING	☐ S. STEEL PUMP MATERIAL	☐ WL METER
☐ SUBMERSIBLE	☐ DEIONIZED WATER	☐ TEFLON TUBING	☐ PVC PUMP MATERIAL	☐ PID
☐ BLADDER	☐ POTABLE WATER	☐ TEFLON LINED TUBING	☐ GEOPROBE SCREEN	☐ WQ METER
	☐ NITRIC ACID	☐ HDPE TUBING	☐ TEFLON BLADDER	☐ TURB. METER
☐ WATTERA	☐ HEXANE	☐ LDPE TUBING	☐ OTHER	☐ PUMP
☐ OTHER	☐ METHANOL	☐ OTHER	☐ OTHER	☐ OTHER
☐ OTHER	☐ OTHER	☐ OTHER	☐ 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES ☐ NO ☒

NO-PURGE METHOD UTILIZED — YES ☐ NO ☐

NUMBER OF GALLONS GENERATED: 2.93

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-7
SAMPLE TIME	11:25

LOCATION ID	MW-7
DATE	5/15/2019
START TIME	10:55
END TIME	11:25
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
COLLAR			

INITIAL DTW (BMP)	0 FT	**FINAL DTW (BMP)**	0 FT	**PROT. CASING STICKUP (AGS)**	2.03 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	16.6 FT	**SCREEN LENGTH**	8 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	16.6 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.00 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.72 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.34 GAL	**DRAWDOWN/ TOTAL PURGED**	0	**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
1055	**BEGIN PURGING**									
1110	0	300	8.9	0.503	6.98	0.27	1.6	45.6	16	
1115	0	300	9.2	0.503	6.96	0.01	2.8	43.2	16	
1120	0	300	9.4	0.502	6.96	-0.04	1.2	40.7	16	
1125	0	300	9.3	0.502	6.96	-0.06	2.2	38.6	16	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**9.3**	**0.502**	**6.96**	**-0.06**	**2.2**	**38.6**		

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[ ] WL METER
[ ] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
	[ ] NITRIC ACID	[ ] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

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

NUMBER OF GALLONS GENERATED: 2.34

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-7D
SAMPLE TIME	13:35

LOCATION ID	MW-7D
DATE	5/15/2019
START TIME	12:28
END TIME	15:30
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [X] 6 [ ] 8 [ ] OTHER Bedrock - open hole

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			

INITIAL DTW (BMP)	0.67 FT	**FINAL DTW (BMP)**	3.3 FT	**PROT. CASING STICKUP (AGS)**	2.2 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	31.6 FT	**SCREEN LENGTH**	15 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	30.93 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	3.88 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	45.65 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.48 GAL	**DRAWDOWN/ TOTAL PURGED**	2.63	**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
1228	**BEGIN PURGING**									
1240	3	200	11.3	0.57	7.13	0.23	52	109.4	30	
1245	3.25	200	11.3	0.57	7.13	0.12	32	113.1	30	
1250	3.25	200	11	0.568	7.13	0.1	31.9	114.5	30	
1255	3.3	200	10.8	0.569	7.13	0.09	22.6	116.5	30	
1300	3.37	200	10.7	0.565	7.13	0.07	23.2	118.8	30	
1305	3.37	200	10.8	0.565	7.13	0.08	14.6	119.1	30	
1310	3.25	200	11	0.56	7.13	0.1	19.6	119.9	30	
1315	3.25	200	10.6	0.564	7.18	0.2	10.2	124.4	30	
1320	3.25	200	10.3	0.559	7.14	0.16	10.1	124.6	30	
1325	3.3	200	10.4	0.558	7.14	0.14	10.5	124.4	30	
1330	3.3	200	11.1	0.551	7.15	0.09	10.8	124.1	30	
1335	3.3	200	10.07	0.55	7.15	0.1	9.4	124.8	30	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**10.07**	**0.55**	**7.15**	**0.1**	**9.4**	**124.8**		

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
- [ ] 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
- [ ] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

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

EQUIPMENT USED
- [ ] WL METER
- [ ] PID
- [ ] WQ METER
- [ ] TURB. METER
- [ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

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

NUMBER OF GALLONS GENERATED: 3.48

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-8
SAMPLE TIME	11:35

LOCATION ID	MW-8
DATE	5/16/2019
START TIME	10:50
END TIME	13:15
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
COLLAR			

INITIAL DTW (BMP)	10.02 FT	**FINAL DTW (BMP)**	10.63 FT	**PROT. CASING STICKUP (AGS)**	2.28 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	23.45 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	13.43 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.10 GAL	**PID WELL MOUTH**	0.8 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.20 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.34 GAL	**DRAWDOWN/ TOTAL PURGED**	0.61	**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
1050	**BEGIN PURGING**									
1100	10.59	200	12.0	1.537	6.31	0.14	7.5	-22.4	22	Clear, no odor
1105	10.67	200	11.7	1.542	6.32	0.08	5.7	-23.9	22	SAA
1110	10.63	200	11.7	1.541	6.33	0.06	5.2	-25.8	22	SAA
1115	10.63	200	11.8	1.545	6.32	0.03	7.9	-26.8	22	Clear, some odor
1120	10.63	200	11.7	1.544	6.32	0.02	6.6	-27.5	22	SAA
1125	10.63	200	11.6	1.546	6.33	0.00	8.3	-29.6	22	SAA
1130	10.63	200	11.8	1.547	6.32	0.00	6.4	-30.4	22	SAA
1135	10.63	200	11.2	1.547	6.32	0.00	7.2	-31.2	22	SAA
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**11.2**	**1.547**	**6.32**	**0**	**7.2**	**-31.2**		

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[ ] WL METER
[ ] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
	[ ] NITRIC ACID	[ ] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] 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 PCBs	8082A	No	None		Yes	MS/MSD	
X	TCL Pesticides	8081B	No	None		Yes	MS/MSD	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	MS/MSD	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	MS/MSD	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	MS/MSD	
X	PFAS (list of 21 compounds)	537 Modified	No	None		Yes	MS/MSD	
X	1,4-dioxane	8270D SIM	No	None		Yes	MS/MSD	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 2.34

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-11
SAMPLE TIME	10:10

LOCATION ID	MW-11
DATE	5/15/2019
START TIME	9:20
END TIME	10:10
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
COLLAR			

INITIAL DTW (BMP)	1.90 FT	**FINAL DTW (BMP)**	2.11 FT	**PROT. CASING STICKUP (AGS)**	1.92 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	19.5 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	17.60 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.03 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.89 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.93 GAL	**DRAWDOWN/ TOTAL PURGED**	0.21	**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
925	**BEGIN PURGING**									
935	2.12	250	8.6	0.049	5.48	3.23	2.3	185.7	20	Clear, no odor
940	2.11	250	9.1	0.050	5.47	3.15	3.7	193.9	20	SAA
945	2.11	250	9.3	0.050	5.46	3.08	5.5	200.00	20	SAA
950	2.11	250	9.3	0.050	5.45	3.04	8.3	203.9	20	SAA
955	2.11	250	9.3	0.049	5.45	3.00	12.2	207.5	20	SAA
1000	2.11	250	9.2	0.049	5.45	2.98	5.4	211.5	20	SAA
1005	2.11	250	9.3	0.049	5.44	3.14	7.1	214.1	20	SAA
1010	2.11	250	9.3	0.049	5.44	3.13	9.1	215.3	20	SAA
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**9.3**	**0.049**	**5.44**	**3.13**	**9.1**	**215.3**		

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
[ ] PERISTALTIC	[ ] LIQUINOX	[ ] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[ ] WL METER
[ ] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
	[ ] NITRIC ACID	[ ] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
	PFAS (list of 21 compounds)	537 Modified	No	None		No	No	
	1,4-dioxane	8270D SIM	No	None		No	No	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 2.93

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	NYSDEC WA45 - Site Management Portfolio
PROJECT NUMBER	320919.0000.0000, Phase 4
SAMPLE ID	ML-MW-13
SAMPLE TIME	17:20

LOCATION ID	MW-13
DATE	5/15/2019
START TIME	16:20
END TIME	17:20
SITE NAME/NUMBER	Mayer Landill Site (Site No. 336027)
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			
COLLAR			

INITIAL DTW (BMP)	6.09 FT	**FINAL DTW (BMP)**	6.23 FT	**PROT. CASING STICKUP (AGS)**	2.24 FT	**TOC/TOR DIFFERENCE**	FT
WELL DEPTH (BMP)	18.1 FT	**SCREEN LENGTH**	10 FT	**PID AMBIENT AIR**	PPM	**REFILL TIMER SETTING**	SEC
WATER COLUMN	12.01 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	0.02 GAL	**PID WELL MOUTH**	0 PPM	**DISCHARGE TIMER SETTING**	SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	1.97 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.90 GAL	**DRAWDOWN/ TOTAL PURGED**	0.14	**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
1620	**BEGIN PURGING**									
1630	6.09	250	10.6	0.076	5.95	1.64	19.4	194.3	17	Clear, no odor
1635	6.23	250	10.5	0.058	5.74	1.61	16.1	201.9	17	SAA
1640	6.23	250	10.6	0.054	5.66	1.61	15.3	209.8	17	SAA
1645	6.23	250	10.3	0.052	5.63	1.62	14.4	215.9	17	SAA
1650	6.23	250	10.2	0.054	5.67	1.65	14.8	220.8	17	SAA
1655	6.23	250	10.3	0.051	5.62	1.78	13.2	225.1	17	SAA
1700	6.23	250	10.6	0.050	5.60	1.84	12.4	228.4	17	SAA
1705	6.23	250	10.4	0.051	5.60	1.82	11.7	232.8	17	SAA
1710	6.23	250	10.2	0.051	5.60	1.72	12.8	235.3	17	SAA
1715	6.23	250	10.2	0.050	5.59	1.66	11.8	236.8	17	SAA
1720	6.23	250	10.1	0.050	5.59	1.60	12.6	241.0	17	SAA

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

10.1	**0.050**	**5.59**	**1.60**	**12.6**	**241.0**	

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	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED
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[ ] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[ ] PID
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[ ] WQ METER
	[ ] NITRIC ACID	[ ] HDPE TUBING	[ ] TEFLON BLADDER	[ ] TURB. METER
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[ ] PUMP
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] 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 PCBs	8082A	No	None		Yes	No	
X	TCL Pesticides	8081B	No	None		Yes	No	
X	TCL SVOCs + 20 TICs	8270D	No	None		Yes	No	
X	TAL Metals	6010C, 7470A	No	HNO3		Yes	No	
X	TCL VOCs + 10 TICs	8260C	No	HCl		Yes	No	
X	PFAS (list of 21 compounds)	537 Modified	No	None		Yes	No	
X	1,4-dioxane	8270D SIM	No	None		Yes	No	

PURGE OBSERVATIONS

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

NUMBER OF GALLONS GENERATED: 3.90

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

SKETCH/NOTES

Sampler Signature: Print Name:

Checked By: Date:

APPENDIX D

Data Usability Summary Report

Site: Mayer Landfill
Laboratory: Eurofins TestAmerica Buffalo – Amherst, NY
SDG No.: 480-153772-1
Parameters: Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), Pesticides, Polychlorinated Biphenyls (PCBs)
Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: August 8, 2019

Samples Reviewed and Evaluation Summary

13 Groundwater Samples: ML-BR-3, ML-BR-5, ML-BR-6, ML-BR-7, ML-MW-2, ML-MW-4DR, ML-MW-5, ML-MW-6, ML-MW-7, ML-MW-7D, ML-MW-8, ML-MW-11, ML-MW-13

The above-listed groundwater samples were collected on May 15-17, 2019 and were analyzed for the following parameters:

- VOCs by SW-846 Method 8260C
- SVOCs by SW-846 Method 8270D
- Organochlorine pesticides by SW-846 Method 8081B
- PCB Aroclors by SW-846 Method 8082A

The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-017-002),* January 2017, 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/Mass Spectrometry (GC/MS) Tunes
*	• GC/Electron Capture Detector (GC/ECD) Instrument Performance Checks
	• Initial and Continuing Calibrations
	• Blanks
	• Surrogate Recoveries
	• Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	• Internal Standards
	• Laboratory Control Sample (LCS) Results
NA	• Field Duplicate Results
	• Sample Results and Reported Quantitation Limits (QLs)
	• Target Compound Identification
	• Tentatively Identified Compounds (TICs)

* - All criteria were met.
NA - A field duplicate pair 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 1,4-dioxane in all samples due to low calibration response factors. 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.

- The nondetect results for 1,4-dioxane were rejected (R) in all samples due to low relative response factors (RRFs) in initial and/or continuing calibrations. These results cannot be used for project objectives which has a major impact on the data usability.

- Potential uncertainty exists for select VOC, SVOC, and pesticide results 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 result for all Aroclors in several samples and the positive and/or nondetect results for select VOCs in all samples were qualified as estimated (J/UJ) due to continuing calibration nonconformances. These results can be used for project objectives as estimated values and as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The nondetect results for dichlorodifluoromethane in select samples were qualified as estimated (UJ) due to low recovery in the LCS analysis. 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 diethyl phthalate in sample ML-MW-8 was qualified as estimated (J) due to variability in the MS/MSD analyses. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.

- The positive results for several SVOC TICs were removed from all samples due to method blank contamination. This should have no adverse impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable package with one exception. The laboratory did not report LCS and MS/MSD percent recoveries (%Rs), relative percent differences (RPDs), or laboratory acceptance criteria for total xylenes on the summary forms. The %Rs and RPDs were calculated and the laboratory acceptance limits were provided by the laboratory during validation; no validation actions were taken on this basis.

Further, sample ML-MW-2 was not listed on the chain-of-custody (COC) but it was analyzed and reported by the laboratory as requested after the COC was submitted. No validation actions were taken on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the VOC, SVOC, pesticide, and PCB analyses.

GC/MS Tunes

All method acceptance criteria were met in the VOC and SVOC analyses.

GC/ECD Instrument Performance Checks

All criteria were met for the DDT/endrin breakdown checks associated with the pesticide analyses.

Initial and Continuing Calibrations

VOCs

All correlation coefficients and percent relative standard deviations (%RSDs) were within the method acceptance criteria in the initial calibrations (ICs) associated with the samples in this data set.

The following table summarizes the RRFs that did not meet the acceptance criteria in the ICs associated with the samples in this data set, the associated samples, and the validation actions.

IC	Compound	RRF	Validation Actions
5/20/19 HP5973C	1,4-Dioxane	0.0091	The nondetect results for 1,4-dioxane were rejected (R) in the associated samples.
Associated samples: ML-MW-4DR, ML-BR-3, ML-BR-5, ML-BR-6, ML-MW-8, ML-MW-5, ML-MW-2			
5/14/19 HP5975T	1,4-Dioxane	0.0055	The nondetect results for 1,4-dioxane were rejected (R) in the associated samples.
Associated samples: ML-MW-11, ML-BR-7, ML-MW-13, ML-MW-6, ML-MW-7, ML-MW-7D			

The following table summarizes the percent differences or percent drifts (%Ds) and RRFs that did not meet the acceptance criteria in the continuing calibration (CC) standards associated with the samples in this data set, the associated samples, and the validation actions.

CC	Compound	%D	RRF	Validation Actions
05/24/2019 @10:11 HP5973C	1,1,2-Trichloro-1,2,2-trifluoroethane	28.9	-	The positive and nondetect results for these VOCs were qualified as estimated (J/UJ) in the associated samples. However, the nondetect results for 1,4-dioxane were also rejected (R) due to low RRFs in the IC. Thus, no further qualification was required for 1,4-dioxane.
	Cyclohexane	20.5	-	
	Methylcyclohexane	29.6	-	
	1,4-Dioxane	31.8	-	
	Tetrachloroethene	26.5	-	
	1,2,4-Trichlorobenzene	20.5	-	
Associated samples: ML-MW-4DR, ML-BR-3, ML-BR-5, ML-BR-6, ML-MW-8, ML-MW-5, ML-MW-2				
05/23/2019 @ 20:20 HP5975T	Dichlorodifluoromethane	-47.0	-	The nondetect results for these VOCs were qualified as estimated (UJ) in the associated samples.
	Chloromethane	-31.0	-	
	Vinyl chloride	-27.3	-	
	Bromomethane	-25.7	-	
	Chloroethane	-25.4	-	
	Trichlorofluoromethane	-22.8	-	
	1,4-Dioxane	-	0.0045	The nondetect results for 1,4-dioxane were rejected (R) in the associated samples.
Associated samples: ML-MW-11, ML-BR-7, ML-MW-13, ML-MW-6, ML-MW-7, ML-MW-7D				
- : Met criteria				

SVOCs

All correlation coefficients, %RSDs, and RRFs were within the method acceptance criteria in the IC associated with the samples in this data set.

All %Ds and RRFs were within the acceptance criteria in the CC standard associated with the samples in this data set.

Pesticides

All correlation coefficients were within the method acceptance criteria in the ICs associated with the samples in this data set.

All %Ds met the 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 in the ICs associated with the samples in this data set.

The following table summarizes the %Ds that did not meet the acceptance criteria in the CC standards associated with the samples in this data set, the associated samples, and the validation actions.

CC	Compound	Column 1 %D	Column 2 %D	Associated Samples*	Validation Action
5/23/19 @1201 HP6890-7	Aroclor 1221 Peak 1	26.8	-	All samples in this data set	Qualification was not required since the %Ds on column 2 were <20% and Aroclor 1221 was not detected in the associated samples.
	Aroclor 1221 Peak 3	-28.6	-		
5/23/19 @1214 HP6890-7	Aroclor 1232 Peak 2	25.4	20.6		Qualification was not required since the average %Ds on columns 1 and 2 were <20%.
	Aroclor 1232 Peak 3	20.8	-		
	Aroclor 1232 Peak 4	-	20.5		
	Aroclor 1232 Peak 5	20.3	-		
5/23/19 @1226 HP6890-7	Aroclor 1242 Peak 3	24.1	-		
5/23/19 @1238 HP6890-7	Aroclor 1248 Peak 5	23.2	23.7		
5/23/19 @1815 HP6890-7	Aroclor 1016 Peak 1	-	25.1	ML-BR-3, ML-BR-5, ML-BR-6, ML-MW-13, ML-MW-6, ML-MW-7, ML-MW-7D, ML-MW-5, ML-MW-2	The nondetect results for all Aroclors were qualified as nondetect (UJ) in the associated samples since the average %Ds on columns 1 and 2 were >20%.
	Aroclor 1016 Peak 2	25.5	22.6		
	Aroclor 1016 Peak 3	30.8	26.0		
	Aroclor 1016 Peak 4	29.8	25.9		
	Aroclor 1016 Peak 5	28.5	-		
	Aroclor 1260 Peak 1	28.6	21.7		
	Aroclor 1260 Peak 2	20.2	22.1		
	Aroclor 1260 Peak 3	31.2	25.2		
	Aroclor 1260 Peak 4	39.3	-		
	Aroclor 1260 Peak 5	23.5	28.0		

CC	Compound	Column 1 %D	Column 2 %D	Associated Samples*	Validation Action
-: Met criteria *Bracketing CCVs were not used to qualify the samples since an internal standard was used for quantitation; thus, bracketing CCVs are not required.					

Blanks

Target analytes were not detected in the laboratory method blanks for SVOC, pesticide, and PCB analyses.

The following table summarizes the contaminant found in one of the VOC method blanks, the associated samples, and the validation action.

Blank ID	Compound	Blank Concentration (µg/L)	Validation Action
MB 480-474552/7	Carbon disulfide	0.251 J	Qualification was not required since carbon disulfide was not detected in the associated samples.
Associated samples: ML-MW-4DR, ML-BR-3, ML-BR-5, ML-BR-6, ML-MW-8, ML-MW-5, ML-MW-2			

Surrogate Recoveries

The surrogate %Rs met the laboratory acceptance criteria in the VOC and SVOC analyses.

Pesticides

The following table lists the surrogate outliers in the pesticide analyses, the associated sample, and any resulting validation action.

Sample ID	Surrogate	Column 1 %R	Column 2 %R	%R QC Limits	Validation Action
ML-BR-5	TCMX	-	124	44-120	Qualification was not required since pesticides were not detected in this sample.
TCMX: Tetrachloro-m-xylene -: Met criteria					

PCBs

The following table lists the surrogate outliers in the PCB analyses, the associated samples, and any resulting validation action.

Sample ID	Surrogate	Column 1 %R	Column 2 %R	%R QC Limits	Validation Action
ML-MW-11	TCMX	129	-	39-121	Qualification was not required since PCBs were not detected in these samples.
ML-BR-7		135	-		
ML-BR-3		128	-		
ML-BR-5		134	-		
ML-MW-13		138	-		
TCMX: Tetrachloro-m-xylene -: Met criteria					

MS/MSD Results

MS/MSD analyses were performed on sample ML-MW-8 for VOCs, SVOCs, PCBs, and pesticides.

The %Rs and RPDs met the laboratory acceptance criteria in the VOC, PCB, and pesticide MS/MSD analyses. The following table summarizes the SVOC MS/MSD RPDs that did not meet the laboratory acceptance criteria in the MS/MSD analyses performed on sample ML-MW-8. All %Rs were within the laboratory acceptance criteria.

MS/MSD Parent Sample ID	Compound	MS/MSD RPD (%)	MS/MSD RPD QC Limits	Validation Action
ML-MW-8	2,4-Dinitrotoluene	21	20	Qualification was not required since these SVOCs were not detected in sample ML-MW-8.
	2,6-Dinitrotoluene	17	15	
	2-Nitroaniline	18	15	
	4-Chloroaniline	24	22	
	Diethyl phthalate	19	15	The positive result for diethyl phthalate in sample ML-MW-8 was qualified as estimated (J).

Note that the laboratory did not report MS/MSD %Rs and RPDs for total xylenes. The %Rs and RPDs were calculated during validation and were within the laboratory's acceptance criteria.

Internal Standards

All internal standards met the method acceptance criteria in the VOC, SVOC, pesticide, and PCB analyses.

LCS Results

An LCS was analyzed with each daily VOC batch and each SVOC, pesticide, and PCB preparation batch. All criteria were met in the SVOC, pesticide, and PCB LCSs.

The following table summarizes the VOC LCS %Rs that did not meet the laboratory acceptance criteria, the associated samples, and the validation actions.

LCS ID	Compound	LCS %R	LCS QC Limits	Validation Action
LCS 480-474456/5	Dichlorodifluoromethane	52	59-135	The nondetect results for dichlorodifluoromethane were qualified as estimated (UJ) in the associated samples.
Associated samples: ML-MW-11, ML-BR-7, ML-MW-13, ML-MW-6, ML-MW-7, ML-MW-7D				

Note that the laboratory did not report LCS %Rs for total xylenes. The %Rs were calculated during validation and were within the laboratory's acceptance criteria.

Field Duplicate Results

No field duplicate pairs were submitted with this sample set.

Sample Results and Reported QLs

Sample calculations were spot-checked; there were no dilutions performed on any samples in this data set for PCBs or SVOCs.

The following table summarizes the dilutions performed for the VOC and pesticide analyses; QLs were elevated accordingly by the laboratory.

Parameter	Sample ID	Dilution	Reason for Dilution
Pesticides	ML-BR-6	75 mL extracted rather than 250 mL	A reduced extract volume was used due to sample loss.
	ML-MW-8	2-fold	A 2-fold dilution was required due to the nature of the sample matrix.
VOCs	ML-MW-8	4-fold	A 4-fold dilution was performed due to the concentration of chlorobenzene which would have exceeded the calibration range if analyzed undiluted.

Select VOC, SVOC, and pesticide 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.

Target Compound Identification

All criteria were met for the VOC, SVOC, pesticide, and PCB analyses.

PCBs

The dual column RPDs, where applicable, were within the acceptance limits (<40%) in the PCB analyses. The laboratory reported the lower PCB result from the dual column analysis in every instance.

Pesticides

The dual column RPDs, where applicable, were within the acceptance limits (<40%) in the pesticide analyses. The laboratory reported the lower pesticide result from the dual column analysis with one exception. During validation, the result for beta-BHC in sample ML-MW-8 was changed on the Form 1 to reflect the lower result from the dual column analysis.

Tentatively Identified Compounds

There were no issues noted regarding VOC and SVOC TIC identifications.

There were no TICs in the VOC method blanks. 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 480-473977/1-A	ML-MW-11	Unknown: 2.8 TJ µg/L (2.90 minutes) Cyclohexane: 19 TJN µg/L(3.09 minutes) Unknown: 60 TJ µg/L (3.33 minutes) Column Bleed: 7.2 TJ µg/L (4.88 minutes) Unknown: 37 TJ µg/L (5.15 minutes) Column Bleed: 7.8 TJ µg/L (7.17 minutes) Column Bleed: 3.7 TJ µg/L (8.05 minutes) Unknown: 2.7 TJ µg/L (8.82 minutes) Unknown: 1.8 TJ µg/L (9.50 minutes)
	ML-BR-7	Unknown: 64 TJ µg/L (3.34 minutes) Cyclohexane: 2.1 TJN µg/L (3.20 minutes) Unknown: 45 TJ µg/L (5.16 minutes) Column Bleed: 10 TJ µg/L (7.17 minutes) Column Bleed: 5.7 TJ µg/L (8.05 minutes) Unknown: 3.6 TJ µg/L (8.82 minutes) Unknown: 2.3 TJ µg/L (9.50 minutes)
	ML-MW-4DR	Unknown: 2.3 TJ µg/L (2.89 minutes) Cyclohexane: 2.7 TJN µg/L (3.19 minutes) Unknown: 62 TJ µg/L (3.33 minutes) Column Bleed: 6.8 TJ µg/L (4.88 minutes) Unknown: 35 TJ µg/L (5.15 minutes) Column Bleed: 8.4 TJ µg/L (7.17 minutes) Column Bleed: 3.7 TJ µg/L (8.05 minutes) Unknown: 2.5 TJ µg/L (8.82 minutes) Unknown: 1.6 TJ µg/L (9.50 minutes)
	ML-BR-3	Unknown: 2.4 TJ µg/L (2.90 minutes) Cyclohexane: 21 TJN µg/L (3.10 minutes) Unknown: 64 TJ µg/L (3.34 minutes) Column Bleed: 4.1 TJ µg/L (4.88 minutes) Unknown: 38 TJ µg/L (5.15 minutes) Column Bleed: 8.7 TJ µg/L (7.17 minutes) Column Bleed: 3.6 TJ µg/L (8.05 minutes) Unknown: 2.7 TJ µg/L (8.82 minutes) Unknown: 1.7 TJ µg/L (9.50 minutes)
	ML-BR-5	Unknown: 3.5 TJ µg/L (2.90 minutes) Cyclohexane: 24 TJN µg/L (3.08 minutes) Unknown: 62 TJ µg/L (3.34 minutes) Column Bleed: 7.9 TJ µg/L (4.89 minutes) Unknown: 46 TJ µg/L (5.16 minutes) Column Bleed: 9.0 TJ µg/L (7.17 minutes) Column Bleed: 4.1 TJ µg/L (8.05 minutes) Unknown: 3.1 TJ µg/L (8.82 minutes) Unknown: 2.2 TJ µg/L (9.50 minutes)
	ML-BR-6	Cyclohexane: 23 TJN µg/L (3.08 minutes) Unknown: 62 TJ µg/L (3.33 minutes) Column Bleed: 6.6 TJ µg/L (4.88 minutes) Unknown: 43 TJ µg/L (5.15 minutes) Column Bleed: 14 TJ µg/L (7.17 minutes) Column Bleed: 6.1 TJ µg/L (8.05 minutes) Unknown: 4.0 TJ µg/L (8.82 minutes)

Blank ID	Affected Samples	TIC: Sample Concentration (Retention Time)
SVOC MB 480-473977/1-A	ML-MW-13	Unknown: 2.9 TJ µg/L (2.90 minutes) Cyclohexane: 2.8 TJN µg/L (3.19 minutes) Unknown: 64 TJ µg/L (3.33 minutes) Column Bleed: 8.3 TJ µg/L (4.88 minutes) Unknown: 39 TJ µg/L (5.15 minutes) Column Bleed: 9.9 TJ µg/L (7.17 minutes) Column Bleed: 4.1 TJ µg/L (8.05 minutes) Unknown: 2.8 TJ µg/L (8.82 minutes) Unknown: 1.9 TJ µg/L (9.50 minutes)
	ML-MW-8	Unknown: 34 TJ µg/L (3.31 minutes) Unknown: 21 TJ µg/L (5.15 minutes) Column Bleed: 12 TJ µg/L (7.17 minutes) Column Bleed: 5.0 TJ µg/L (8.05 minutes)
	ML-MW-6	Cyclohexane: 22 TJN µg/L (3.08 minutes) Unknown: 60 TJ µg/L (3.33 minutes) Column Bleed: 3.5 TJ µg/L (4.88 minutes) Unknown: 33 TJ µg/L (5.15 minutes) Column Bleed: 8.3 TJ µg/L (7.17 minutes) Column Bleed: 3.7 TJ µg/L (8.05 minutes) Unknown: 2.9 TJ µg/L (8.82 minutes) Unknown: 1.8 TJ µg/L (9.50 minutes)
	ML-MW-7	Unknown: 1.9 TJ µg/L (2.89 minutes) Cyclohexane: 3.0 TJN µg/L (3.18 minutes) Unknown: 61 TJ µg/L (3.33 minutes) Column Bleed: 4.7 TJ µg/L (4.88 minutes) Unknown: 34 TJ µg/L (5.15 minutes) Column Bleed: 5.5 TJ µg/L (7.17 minutes) Column Bleed: 3.5 TJ µg/L (8.05 minutes) Unknown: 2.9 TJ µg/L (8.82 minutes) Unknown: 1.9 TJ µg/L (9.50 minutes)
	ML-MW-7D	Unknown: 2.0 TJ µg/L (2.89 minutes) Cyclohexane: 18 TJN µg/L (3.08 minutes) Unknown: 66 TJ µg/L (3.32 minutes) Column Bleed: 4.8 TJ µg/L (4.88 minutes) Unknown: 46 TJ µg/L (5.15 minutes) Column Bleed: 6.8 TJ µg/L (7.17 minutes) Unknown: 3.1 TJ µg/L (8.82 minutes) Unknown: 2.1 TJ µg/L (9.50 minutes)
	ML-MW-5	Unknown: 1.6 TJ µg/L (2.89 minutes) Cyclohexane: 3.1 TJN µg/L (3.18 minutes) Unknown: 61 TJ µg/L (3.32 minutes) Column Bleed: 4.1 TJ µg/L (4.88 minutes) Unknown: 39 TJ µg/L (5.15 minutes) Column Bleed: 9.4 TJ µg/L (7.17 minutes) Column Bleed: 5.0 TJ µg/L (8.05 minutes) Unknown: 3.5 TJ µg/L (8.82 minutes) Unknown: 2.2 TJ µg/L (9.50 minutes)
	ML-MW-2	Cyclohexane: 3.1 TJN µg/L (3.08 minutes) Unknown: 59 TJ µg/L (3.32 minutes) Column Bleed: 3.6 TJ µg/L (4.88 minutes) Unknown: 37 TJ µg/L (5.15 minutes) Column Bleed: 7.7 TJ µg/L (7.17 minutes) Column Bleed: 4.0 TJ µg/L (8.05 minutes) Unknown: 3.1 TJ µg/L (8.82 minutes) Unknown: 2.0 TJ µg/L (9.50 minutes)

QUALIFIED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: T1246.D

Analysis Method: 8260C Date Collected: 05/15/2019 10:10

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:32

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND	R	40	9.3
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	UJ	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
75-00-3	Chloroethane	ND	UJ	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND	UJ	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: T1246.D

Analysis Method: 8260C Date Collected: 05/15/2019 10:10

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:32

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	~~ND~~ UJ		1.0	0.88
75-01-4	Vinyl chloride	~~ND~~ UJ		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: T1246.D

Analysis Method: 8260C Date Collected: 05/15/2019 10:10

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:32

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: T1247.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:00

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:56

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R ~~ND~~		~~40~~	~~9.3~~ ✓
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~~	UJ ✓	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
75-00-3	Chloroethane	~~ND~~	UJ ✓	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	~~ND~~	UJ ✓	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	~~ND~~	UJ ✓	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: T1247.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:00

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:56

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	~~ND~~ UJ	✓	1.0	0.88
75-01-4	Vinyl chloride	~~ND~~ UJ	✓	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	92		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: T1247.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:00

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 01:56

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: C7870.D

Analysis Method: 8260C Date Collected: 05/16/2019 12:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 12:39

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~	UJ ✓	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R	~~ND~~	~~40~~	~~9.3~~ ✓
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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~	UJ ✓	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: C7870.D

Analysis Method: 8260C Date Collected: 05/16/2019 12:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 12:39

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ UJ ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	91		75-123
2037-26-5	Toluene-d8 (Surr)	105		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: C7870.D

Analysis Method: 8260C Date Collected: 05/16/2019 12:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 12:39

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.: 474552 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: C7871.D

Analysis Method: 8260C Date Collected: 05/16/2019 14:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:05

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~	UJ ✓	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R ~~ND~~		~~40~~	~~9.3~~ ✓
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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~	UJ ✓	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: C7871.D

Analysis Method: 8260C Date Collected: 05/16/2019 14:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:05

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ UJ ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-123
2037-26-5	Toluene-d8 (Surr)	105		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: C7871.D

Analysis Method: 8260C Date Collected: 05/16/2019 14:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:05

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.: 474552 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: C7872.D

Analysis Method: 8260C Date Collected: 05/16/2019 16:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:32

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~	UJ ✓	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R ~~ND~~		~~40~~	~~9.3~~ ✓
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	3.1	J	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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~	UJ ✓	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: C7872.D

Analysis Method: 8260C Date Collected: 05/16/2019 16:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:32

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ UJ ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-123
2037-26-5	Toluene-d8 (Surr)	106		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: C7872.D

Analysis Method: 8260C Date Collected: 05/16/2019 16:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:32

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.: 474552 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: C7873.D

Analysis Method: 8260C Date Collected: 05/17/2019 09:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:59

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~ UJ ✓		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~ UJ ✓		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R ~~ND~~		~~40~~	~~9.3~~ ✓
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	13		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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~ UJ ✓		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: C7873.D

Analysis Method: 8260C Date Collected: 05/17/2019 09:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:59

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ U ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ U ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	102		73-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-123
2037-26-5	Toluene-d8 (Surr)	106		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: C7873.D

Analysis Method: 8260C Date Collected: 05/17/2019 09:55

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 13:59

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.: 474552 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: T1248.D

Analysis Method: 8260C Date Collected: 05/15/2019 17:20

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:20

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND	R ✓	40	9.3
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	UJ ✓	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
75-00-3	Chloroethane	ND	UJ ✓	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND	UJ ✓	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ ✓	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: T1248.D

Analysis Method: 8260C Date Collected: 05/15/2019 17:20

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:20

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	~~ND~~ UJ ✓		1.0	0.88
75-01-4	Vinyl chloride	~~ND~~ UJ ✓		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	92		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: T1248.D

Analysis Method: 8260C Date Collected: 05/15/2019 17:20

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:20

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: C7874.D

Analysis Method: 8260C Date Collected: 05/16/2019 11:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:25

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	~~ND~~	UJ ✓	4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	6.2		4.0	3.4
123-91-1	1,4-Dioxane	R ~~ND~~		~~160~~	~~37~~ ✓
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	12	J	40	12
71-43-2	Benzene	7.8		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	85		4.0	3.0
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	~~ND~~	UJ ✓	4.0	0.72
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: C7874.D

Analysis Method: 8260C Date Collected: 05/16/2019 11:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:25

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	3.5	J	4.0	3.2
79-20-9	Methyl acetate	ND		10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	0.77	J	4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123
2037-26-5	Toluene-d8 (Surr)	107		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: C7874.D

Analysis Method: 8260C Date Collected: 05/16/2019 11:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:25

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 474552 Units: ug/L

Number TICs Found: 3 TIC Result Total: 54

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
496-11-7	Indane	9.34	12	T J N	93%
767-58-8	Indan, 1-methyl-	10.43	12	T J N	93%
91-20-3	Naphthalene	10.99	30	T J N	94%

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: T1249.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:44

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND	R ✓	40	9.3
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~~	UJ ✓	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
75-00-3	Chloroethane	~~ND~~	UJ ✓	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	~~ND~~	UJ ✓	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	~~ND~~	UJ ✓	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: T1249.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:44

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND	UJ	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123
2037-26-5	Toluene-d8 (Surr)	92		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: T1249.D

Analysis Method: 8260C Date Collected: 05/15/2019 14:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 02:44

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: T1250.D

Analysis Method: 8260C Date Collected: 05/15/2019 11:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:08

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND	R	40	9.3 ✓
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	UJ ✓	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
75-00-3	Chloroethane	ND	UJ ✓	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND	UJ ✓	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ ✓	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: T1250.D

Analysis Method: 8260C Date Collected: 05/15/2019 11:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:08

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND	UJ	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: T1250.D

Analysis Method: 8260C Date Collected: 05/15/2019 11:25

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:08

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: T1251.D

Analysis Method: 8260C Date Collected: 05/15/2019 13:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:33

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.: 474456 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND	R ✓	40	9.3
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	UJ ✓	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
75-00-3	Chloroethane	ND	UJ ✓	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND	UJ ✓	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND	UJ ✓	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: T1251.D

Analysis Method: 8260C Date Collected: 05/15/2019 13:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:33

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.: 474456 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		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		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND	UJ	1.0	0.88
75-01-4	Vinyl chloride	ND	UJ	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-123
2037-26-5	Toluene-d8 (Surr)	91		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: T1251.D

Analysis Method: 8260C Date Collected: 05/15/2019 13:35

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 03:33

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.: 474456 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: C7875.D

Analysis Method: 8260C Date Collected: 05/16/2019 15:50

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:52

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~	UJ ✓	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R	~~ND~~	~~40~~	~~9.3~~ ✓
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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~	UJ ✓	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: C7875.D

Analysis Method: 8260C Date Collected: 05/16/2019 15:50

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:52

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ UJ ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	90		75-123
2037-26-5	Toluene-d8 (Surr)	106		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: C7875.D

Analysis Method: 8260C Date Collected: 05/16/2019 15:50

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 14:52

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.: 474552 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: C7876.D

Analysis Method: 8260C Date Collected: 05/15/2019 15:45

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 15:18

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	~~ND~~	UJ ✓	1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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~~	UJ ✓	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	R ~~ND~~		~~40~~	~~9.3~~ ✓
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
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		1.0	0.36
110-82-7	Cyclohexane	~~ND~~	UJ ✓	1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: C7876.D

Analysis Method: 8260C Date Collected: 05/15/2019 15:45

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 15:18

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.: 474552 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
98-82-8	Isopropylbenzene	ND		1.0	0.79
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	~~ND~~ UJ ✓		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	~~ND~~ UJ ✓		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		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
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-123
2037-26-5	Toluene-d8 (Surr)	104		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: C7876.D

Analysis Method: 8260C Date Collected: 05/15/2019 15:45

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 15:18

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.: 474552 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 SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: W0536.D

Analysis Method: 8270D Date Collected: 05/15/2019 10:10

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 10:19

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: W0536.D

Analysis Method: 8270D Date Collected: 05/15/2019 10:10

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 10:19

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 | Lab Sample ID: 480-153772-1

Matrix: Water | Lab File ID: W0536.D

Analysis Method: 8270D | Date Collected: 05/15/2019 10:10

Extract. Method: 3510C | Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2019 10:19

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.: 474963 | Units: ug/L

Number TICs Found: 10 | TIC Result Total: 144.7

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.90	2.8	T J	
110-82-7	Cyclohexane	3.09	19	T J N	87%
	Unknown	3.19	2.7	T J	
	Unknown	3.33	60	T J	
	column bleed	4.88	7.2	T J	
	Unknown	5.15	37	T J	
	column bleed	7.17	7.8	T J	
	column bleed	8.05	3.7	T J	
	Unknown	8.82	2.7	T J	
	Unknown	9.50	1.8	T J	

do not report

do not report

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: W0537.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:00

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 10:47

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: W0537.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:00

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 10:47

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: W0537.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:00

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 10:47

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.: 474963 Units: ug/L

Number TICs Found: 11 TIC Result Total: 164.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
110-82-7	Cyclohexane	3.20	2.1	T J N	87%
	Unknown	3.34	64	T J	
	Unknown	5.16	45	T J	
	Column bleed	6.22	20	T J	
	Column bleed	7.17	10	T J	
	Column bleed	8.05	5.7	T J	
	Unknown	8.82	3.6	T J	
	Unknown	8.90	6.3	T J	
	Unknown	9.20	4.2	T J	
	Unknown	9.50	2.3	T J	
	Unknown	10.08	1.7	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: W0538.D

Analysis Method: 8270D Date Collected: 05/16/2019 12:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:17

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: W0538.D

Analysis Method: 8270D Date Collected: 05/16/2019 12:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:17

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.: 474963 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
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
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	0.73	J	5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: W0538.D

Analysis Method: 8270D Date Collected: 05/16/2019 12:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:17

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.: 474963 Units: ug/L

Number TICs Found: 9 TIC Result Total: 125

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.89	2.3	T J	
110-82-7	Cyclohexane	3.19	2.7	T J N	90%
	Unknown	3.33	62	T J	
	column bleed	4.88	6.8	T J	
	Unknown	5.15	35	T J	
	column bleed	7.17	8.4	T J	
	column bleed	8.05	3.7	T J	
	Unknown	8.82	2.5	T J	
	Unknown	9.50	1.6	T J	

DO not report

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: W0539.D

Analysis Method: 8270D Date Collected: 05/16/2019 14:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:46

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: W0539.D

Analysis Method: 8270D Date Collected: 05/16/2019 14:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:46

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: W0539.D

Analysis Method: 8270D Date Collected: 05/16/2019 14:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 11:46

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.: 474963 Units: ug/L

Number TICs Found: 11 TIC Result Total: 150.1

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.90	2.4	T J	
110-82-7	Cyclohexane	3.10	21	T J N	91%
	Unknown	3.20	2.2	T J	
	Unknown	3.34	64	T J	
	Unknown	3.39	1.7	T J	
	column bleed	4.88	4.1	T J	
	Unknown	5.15	38	T J	
	column bleed	7.17	8.7	T J	
	column bleed	8.05	3.6	T J	
	Unknown	8.82	2.7	T J	
	Unknown	9.50	1.7	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: W0540.D

Analysis Method: 8270D Date Collected: 05/16/2019 16:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:15

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: W0540.D

Analysis Method: 8270D Date Collected: 05/16/2019 16:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:15

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.: 474963 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
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
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	0.41	J	5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: W0540.D

Analysis Method: 8270D Date Collected: 05/16/2019 16:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:15

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.: 474963 Units: ug/L

Number TICs Found: 20 TIC Result Total: 278.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.91	3.5	T J	
110-82-7	Cyclohexane	3.08	24	T J N	95%
	Unknown	3.20	2.0	T J	
	Unknown	3.34	62	T J	
	Unknown	4.89	7.9	T J	
	Unknown	5.16	46	T J	
3173-53-3	Cyclohexane, isocyanato-	6.48	2.8	T J N	96%
	column bleed	7.17	9.0	T J	
95-16-9	Benzothiazole	7.90	3.3	T J N	94%
	column bleed	8.05	4.1	T J	
	Unknown	8.39	6.7	T J	
	Unknown	8.82	3.1	T J	
	Unknown	8.90	2.8	T J	
	Unknown	8.94	9.6	T J	
	Unknown	8.98	10	T J	
	Unknown	9.20	2.9	T J	
	Unknown	9.50	2.2	T J	
934-34-9	2(3H)-Benzothiazolone	9.90	66	T J N	96%
2387-23-7	1,3-Dicyclohexylurea	11.26	8.9	T J N	94%
	Unknown	16.03	2.1	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: W0541.D

Analysis Method: 8270D Date Collected: 05/17/2019 09:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:44

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: W0541.D

Analysis Method: 8270D Date Collected: 05/17/2019 09:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:44

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: W0541.D

Analysis Method: 8270D Date Collected: 05/17/2019 09:55

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 12:44

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.: 474963 Units: ug/L

Number TICs Found: 20 TIC Result Total: 364.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
110-82-7	Cyclohexane	3.08	23	T J N	94%
	Unknown	3.19	2.9	T J	
	Unknown	3.33	62	T J	
	column bleed	4.88	6.6	T J	
	Unknown	5.15	43	T J	
	column bleed	7.17	14	T J	
124-07-2	Octanoic Acid	7.39	5.9	T J N	95%
	Unknown	7.89	3.1	T J	
	column bleed	8.05	6.1	T J	
	Unknown	8.18	4.8	T J	
334-48-5	n-Decanoic acid	8.38	9.7	T J N	91%
	Unknown	8.82	4.0	T J	
143-07-7	Dodecanoic acid	9.29	150	T J N	98%
	Unknown	9.95	3.4	T J	
	Unknown	10.04	2.9	T J	
	Unknown	10.08	6.6	T J	
	Unknown	10.11	3.5	T J	
57-10-3	n-Hexadecanoic acid	10.76	5.0	T J N	98%
	Unknown	11.76	3.3	T J	
	Unknown	14.38	4.4	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: W0542.D

Analysis Method: 8270D Date Collected: 05/15/2019 17:20

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 13:13

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: W0542.D

Analysis Method: 8270D Date Collected: 05/15/2019 17:20

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 13:13

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 | Lab Sample ID: 480-153772-7

Matrix: Water | Lab File ID: W0542.D

Analysis Method: 8270D | Date Collected: 05/15/2019 17:20

Extract. Method: 3510C | Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) | Date Analyzed: 05/29/2019 13:13

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.: 474963 | Units: ug/L

Number TICs Found: 11 | TIC Result Total: 141.9

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
DO NOT REPORT	Unknown	2.90	2.9	T J	
110-82-7	Cyclohexane	3.19	2.8	T J N	90%
	Unknown	3.33	64	T J	
	column bleed	4.88	8.3	T J	
	Unknown	5.15	39	T J	
	column bleed	7.17	9.9	T J	
	column bleed	8.05	4.1	T J	
	Unknown	8.82	2.8	T J	
	Unknown	9.50	1.9	T J	
57-10-3	n-Hexadecanoic acid	10.76	4.1	T J N	98%
57-11-4	Octadecanoic acid	11.45	2.1	T J N	98%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: W0534.D

Analysis Method: 8270D Date Collected: 05/16/2019 11:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 09:22

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		10	2.2
121-14-2	2,4-Dinitrotoluene	ND	F2	5.0	0.45
606-20-2	2,6-Dinitrotoluene	ND	F2	5.0	0.40
91-58-7	2-Chloronaphthalene	ND		5.0	0.46
95-57-8	2-Chlorophenol	0.89	J	5.0	0.53
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
88-74-4	2-Nitroaniline	ND	F2	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	F2	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	0.90	J	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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: W0534.D

Analysis Method: 8270D Date Collected: 05/16/2019 11:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 09:22

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.: 474963 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
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	2.6	J	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
132-64-9	Dibenzofuran	ND		10	0.51
84-66-2	Diethyl phthalate	0.46	J F2	5.0	0.22
131-11-3	Dimethyl phthalate	ND		5.0	0.36
84-74-2	Di-n-butyl phthalate	0.40	J	5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	1.8	J	5.0	0.51
87-86-5	Pentachlorophenol	ND		10	2.2
85-01-8	Phenanthrene	ND		5.0	0.44
108-95-2	Phenol	0.40	J	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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: W0534.D

Analysis Method: 8270D Date Collected: 05/16/2019 11:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 09:22

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.: 474963 Units: ug/L

Number TICs Found: 20 TIC Result Total: 317.2

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
DO not report	~~Unknown~~	~~3.31~~	~~34~~	~~T J~~	
121-44-8	Triethylamine	3.41	5.9	T J N	91%
DO not report	~~Unknown~~	~~5.15~~	~~21~~	~~T J~~	
108-90-7	Benzene, chloro-	5.26	21	T J N	95%
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	7.02	4.9	T J N	95%
DO not report	~~column bleed~~	~~7.17~~	~~12~~	~~T J~~	
	Unknown	7.25	13	T J	
	Unknown	7.37	12	T J	
	Unknown	7.60	5.7	T J	
	Unknown	7.90	6.5	T J	
DO not report	~~column bleed~~	~~8.05~~	~~5.0~~	~~T J~~	
585-34-2	Phenol, m-tert-butyl-	8.12	16	T J N	93%
6331-04-0	Acetic acid, (2,4-xylyl)-	8.80	7.9	T J N	90%
140-66-9	Phenol, 4-(1,1,3,3-tetramethylbutyl)-	9.55	9.3	T J N	91%
126-73-8	Tributyl phosphate	9.61	10	T J N	91%
	Unknown	9.79	19	T J	
934-34-9	2(3H)-Benzothiazolone	9.91	74	T J N	96%
80-39-7	Benzenesulfonamide, N-ethyl-4-methyl-	10.03	12	T J N	97%
	Unknown	11.41	16	T J	
80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	11.67	12	T J N	94%

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: W0543.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 13:41

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: W0543.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 13:41

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: W0543.D

Analysis Method: 8270D Date Collected: 05/15/2019 14:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 13:41

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.: 474963 Units: ug/L

Number TICs Found: 9 TIC Result Total: 138

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
110-82-7	Cyclohexane	3.08	22	T J N	91%
	Unknown	3.18	2.8	T J	
	Unknown	3.33	60	T J	
	Column bleed	4.88	3.5	T J	
	Unknown	5.15	33	T J	
	column bleed	7.17	8.3	T J	
	column bleed	8.05	3.7	T J	
	Unknown	8.82	2.9	T J	
	Unknown	9.50	1.8	T J	

DO not report

DO not report

DO not report

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: W0544.D

Analysis Method: 8270D Date Collected: 05/15/2019 11:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:10

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: W0544.D

Analysis Method: 8270D Date Collected: 05/15/2019 11:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:10

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: W0544.D

Analysis Method: 8270D Date Collected: 05/15/2019 11:25

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:10

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.: 474963 Units: ug/L

Number TICs Found: 9 TIC Result Total: 118.4

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
DO not report					
	Unknown	2.89	1.9	T J	
110-82-7	Cyclohexane	3.18	3.0	T J N	90%
	Unknown	3.33	61	T J	
	Unknown	4.88	4.7	T J	
	Unknown	5.15	34	T J	
	column bleed	7.17	5.5	T J	
	column bleed	8.05	3.5	T J	
	Unknown	8.82	2.9	T J	
	Unknown	9.50	1.9	T J	

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: W0545.D

Analysis Method: 8270D Date Collected: 05/15/2019 13:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:39

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: W0545.D

Analysis Method: 8270D Date Collected: 05/15/2019 13:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:39

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: W0545.D

Analysis Method: 8270D Date Collected: 05/15/2019 13:35

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 14:39

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.: 474963 Units: ug/L

Number TICs Found: 11 TIC Result Total: 161.8

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.89	2.0	T J	
110-82-7	Cyclohexane	3.08	18	T J N	94%
	Unknown	3.18	3.3	T J	
	Unknown	3.32	66	T J	
	column bleed	4.88	4.8	T J	
	Unknown	5.15	46	T J	
	column bleed	7.17	6.8	T J	
	Unknown	8.82	3.1	T J	
	Unknown	9.50	2.1	T J	
57-11-4	Octadecanoic acid	11.46	7.8	T J N	98%
	Unknown	11.53	1.9	T J	

DO not report

DO not report

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: W0546.D

Analysis Method: 8270D Date Collected: 05/16/2019 15:50

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:08

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: W0546.D

Analysis Method: 8270D Date Collected: 05/16/2019 15:50

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:08

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: W0546.D

Analysis Method: 8270D Date Collected: 05/16/2019 15:50

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:08

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.: 474963 Units: ug/L

Number TICs Found: 10 TIC Result Total: 130.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.89	1.6	T J	
110-82-7	Cyclohexane	3.18	3.1	T J N	90%
	Unknown	3.32	61	T J	
	Unknown	4.88	4.1	T J	
	Unknown	5.15	39	T J	
	column bleed	7.17	9.4	T J	
	column bleed	8.05	5.0	T J	
	Unknown	8.82	3.5	T J	
	Unknown	9.50	2.2	T J	
	Unknown	10.08	1.7	T J	

Do not report

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: W0547.D

Analysis Method: 8270D Date Collected: 05/15/2019 15:45

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:37

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.: 474963 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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		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
91-57-6	2-Methylnaphthalene	ND		5.0	0.60
95-48-7	2-Methylphenol	ND		5.0	0.40
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
191-24-2	Benzo[g,h,i]perylene	ND		5.0	0.35
207-08-9	Benzo[k]fluoranthene	ND		5.0	0.73

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: W0547.D

Analysis Method: 8270D Date Collected: 05/15/2019 15:45

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:37

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.: 474963 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
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
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
84-74-2	Di-n-butyl phthalate	ND		5.0	0.31
117-84-0	Di-n-octyl phthalate	ND		5.0	0.47
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		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
91-20-3	Naphthalene	ND		5.0	0.76
98-95-3	Nitrobenzene	ND		5.0	0.29
621-64-7	N-Nitrosodi-n-propylamine	ND		5.0	0.54
86-30-6	N-Nitrosodiphenylamine	ND		5.0	0.51
87-86-5	Pentachlorophenol	ND		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: W0547.D

Analysis Method: 8270D Date Collected: 05/15/2019 15:45

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 15:37

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.: 474963 Units: ug/L

Number TICs Found: 10 TIC Result Total: 142.3

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.69	1.8	T J	
110-82-7	Cyclohexane	3.08	21	T J N	95%
	Unknown	3.18	3.1	T J	
	Unknown	3.32	59	T J	
	column bleed	4.88	3.6	T J	
	Unknown	5.15	37	T J	
	column bleed	7.17	7.7	T J	
	column bleed	8.05	4.0	T J	
	Unknown	8.82	3.1	T J	
	Unknown	9.50	2.0	T J	

do not report

do not report

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: 25_20-391.D

Analysis Method: 8081B Date Collected: 05/15/2019 10:10

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 17:25

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.: 474312 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	0.015	J	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	45		20-120
877-09-8	Tetrachloro-m-xylene	91		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: 25_20-392.D

Analysis Method: 8081B Date Collected: 05/15/2019 14:00

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 17:45

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.: 474312 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	53		20-120
877-09-8	Tetrachloro-m-xylene	80		44-120

FORM I

PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: 25_20-393.D

Analysis Method: 8081B Date Collected: 05/16/2019 12:25

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:04

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.: 474312 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	42		20-120
877-09-8	Tetrachloro-m-xylene	81		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: 25_20-394.D

Analysis Method: 8081B Date Collected: 05/16/2019 14:55

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:24

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.: 474312 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	47		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: 25_20-395.D

Analysis Method: 8081B Date Collected: 05/16/2019 16:55

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:44

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.: 474312 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	44		20-120
877-09-8	Tetrachloro-m-xylene	86		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: 25_20-396.D

Analysis Method: 8081B Date Collected: 05/17/2019 09:55

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 75(mL) Date Analyzed: 05/23/2019 19:03

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.: 474312 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.17	0.031
72-55-9	4,4'-DDE	ND		0.17	0.039
50-29-3	4,4'-DDT	ND		0.17	0.037
309-00-2	Aldrin	ND		0.17	0.027
319-84-6	alpha-BHC	ND		0.17	0.026
5103-71-9	cis-Chlordane	ND		0.17	0.049
319-85-7	beta-BHC	0.088	J	0.17	0.083
319-86-8	delta-BHC	ND		0.17	0.033
60-57-1	Dieldrin	ND		0.17	0.033
959-98-8	Endosulfan I	ND		0.17	0.037
33213-65-9	Endosulfan II	ND		0.17	0.040
1031-07-8	Endosulfan sulfate	ND		0.17	0.052
72-20-8	Endrin	ND		0.17	0.046
7421-93-4	Endrin aldehyde	ND		0.17	0.054
53494-70-5	Endrin ketone	ND		0.17	0.040
58-89-9	gamma-BHC (Lindane)	ND		0.17	0.027
5103-74-2	trans-Chlordane	ND		0.17	0.037
76-44-8	Heptachlor	ND		0.17	0.028
1024-57-3	Heptachlor epoxide	ND		0.17	0.025
72-43-5	Methoxychlor	ND		0.17	0.047
8001-35-2	Toxaphene	ND		1.7	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	47		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: 25_20-397.D

Analysis Method: 8081B Date Collected: 05/15/2019 17:20

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:23

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.: 474312 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	43		20-120
877-09-8	Tetrachloro-m-xylene	89		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: 25_20-390.D

Analysis Method: 8081B Date Collected: 05/16/2019 11:35

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 17:05

Con. Extract Vol.: 2(mL) Dilution Factor: 2

Injection Volume: 1(uL) GC Column: RTX-CLPI ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 474312 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
72-54-8	4,4'-DDD	ND		0.10	0.018
72-55-9	4,4'-DDE	ND		0.10	0.023
50-29-3	4,4'-DDT	ND		0.10	0.022
309-00-2	Aldrin	ND		0.10	0.016
319-84-6	alpha-BHC	ND		0.10	0.015
5103-71-9	cis-Chlordane	ND		0.10	0.030
319-85-7	beta-BHC	0.069 ~~0.097~~	J	0.10	0.050
319-86-8	delta-BHC	ND		0.10	0.020
60-57-1	Dieldrin	ND		0.10	0.020
959-98-8	Endosulfan I	ND		0.10	0.022
33213-65-9	Endosulfan II	ND		0.10	0.024
1031-07-8	Endosulfan sulfate	ND		0.10	0.031
72-20-8	Endrin	ND		0.10	0.028
7421-93-4	Endrin aldehyde	ND		0.10	0.033
53494-70-5	Endrin ketone	ND		0.10	0.024
58-89-9	gamma-BHC (Lindane)	ND		0.10	0.016
5103-74-2	trans-Chlordane	ND		0.10	0.022
76-44-8	Heptachlor	ND		0.10	0.017
1024-57-3	Heptachlor epoxide	ND		0.10	0.015
72-43-5	Methoxychlor	ND		0.10	0.028
8001-35-2	Toxaphene	ND		1.0	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	40		20-120
877-09-8	Tetrachloro-m-xylene	93		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: 25_20-398.D

Analysis Method: 8081B Date Collected: 05/15/2019 14:35

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:43

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.: 474312 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	0.016	J	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	45		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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: 25_20-399.D

Analysis Method: 8081B Date Collected: 05/15/2019 11:25

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 20:02

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.: 474312 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	88		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: 25_20-400.D

Analysis Method: 8081B Date Collected: 05/15/2019 13:35

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 20:22

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.: 474312 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	0.015	J	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	83		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: 25_20-401.D

Analysis Method: 8081B Date Collected: 05/16/2019 15:50

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 20:42

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.: 474312 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	50		20-120
877-09-8	Tetrachloro-m-xylene	82		44-120

FORM I
PESTICIDES ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: 25_20-402.D

Analysis Method: 8081B Date Collected: 05/15/2019 15:45

Extraction Method: 3510C Date Extracted: 05/21/2019 14:57

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 21:01

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.: 474312 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	52		20-120
877-09-8	Tetrachloro-m-xylene	82		44-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-11 Lab Sample ID: 480-153772-1

Matrix: Water Lab File ID: 7_44-028.D

Analysis Method: 8082A Date Collected: 05/15/2019 10:10

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 17:38

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.: 474391 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	93		39-121
2051-24-3	DCB Decachlorobiphenyl	57		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-7 Lab Sample ID: 480-153772-2

Matrix: Water Lab File ID: 7_44-029.D

Analysis Method: 8082A Date Collected: 05/15/2019 14:00

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 17:50

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.: 474391 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	99		39-121
2051-24-3	DCB Decachlorobiphenyl	59		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: 7_44-030.D

Analysis Method: 8082A Date Collected: 05/16/2019 12:25

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:02

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.: 474391 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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	94		39-121
2051-24-3	DCB Decachlorobiphenyl	55		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-3 Lab Sample ID: 480-153772-4

Matrix: Water Lab File ID: 7_44-033.D

Analysis Method: 8082A Date Collected: 05/16/2019 14:55

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:40

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U5 ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	95		39-121
2051-24-3	DCB Decachlorobiphenyl	58		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-5 Lab Sample ID: 480-153772-5

Matrix: Water Lab File ID: 7_44-034.D

Analysis Method: 8082A Date Collected: 05/16/2019 16:55

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 18:52

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U5 ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	96		39-121
2051-24-3	DCB Decachlorobiphenyl	58		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-BR-6 Lab Sample ID: 480-153772-6

Matrix: Water Lab File ID: 7_44-035.D

Analysis Method: 8082A Date Collected: 05/17/2019 09:55

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:04

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U5 ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	89		39-121
2051-24-3	DCB Decachlorobiphenyl	52		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: 7_44-036.D

Analysis Method: 8082A Date Collected: 05/15/2019 17:20

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:17

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		39-121
2051-24-3	DCB Decachlorobiphenyl	47		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: 7_44-022.D

Analysis Method: 8082A Date Collected: 05/16/2019 11:35

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 16:23

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.: 474391 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	0.76		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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	92		39-121
2051-24-3	DCB Decachlorobiphenyl	43		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-6 Lab Sample ID: 480-153772-9

Matrix: Water Lab File ID: 7_44-037.D

Analysis Method: 8082A Date Collected: 05/15/2019 14:35

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:29

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		39-121
2051-24-3	DCB Decachlorobiphenyl	59		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7 Lab Sample ID: 480-153772-10

Matrix: Water Lab File ID: 7_44-038.D

Analysis Method: 8082A Date Collected: 05/15/2019 11:25

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:42

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U3 ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	104		39-121
2051-24-3	DCB Decachlorobiphenyl	63		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-7D Lab Sample ID: 480-153772-11

Matrix: Water Lab File ID: 7_44-039.D

Analysis Method: 8082A Date Collected: 05/15/2019 13:35

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 19:54

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U ✓	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	100		39-121
2051-24-3	DCB Decachlorobiphenyl	72		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: 7_44-040.D

Analysis Method: 8082A Date Collected: 05/16/2019 15:50

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 20:06

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	88		39-121
2051-24-3	DCB Decachlorobiphenyl	49		19-120

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-2 Lab Sample ID: 480-153772-14

Matrix: Water Lab File ID: 7_44-041.D

Analysis Method: 8082A Date Collected: 05/15/2019 15:45

Extraction Method: 3510C Date Extracted: 05/22/2019 08:18

Sample wt/vol: 250(mL) Date Analyzed: 05/23/2019 20:19

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.: 474391 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND	U	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

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		39-121
2051-24-3	DCB Decachlorobiphenyl	83		19-120

QC NONCONFORMANCE DOCUMENTATION

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1 Analy Batch No.: 473759

SDG No.:

Instrument ID: HP5973C GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2019 16:37 Calibration End Date: 05/20/2019 19:44 Calibration ID: 37002

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.7691 1.8858	2.4303 2.0304	2.3302 2.2484	2.2442	2.2017	Ave		2.1425				10.6		20.0			
Benzene	6.9562 5.5182	6.4524 5.7335	6.4643 6.1303	6.2418	6.0971	Ave		6.1992			0.5000	7.2		20.0			
Isobutyl alcohol	0.0841 0.0774	0.0993 0.0762	0.0880 0.0832	0.0800	0.0788	Ave		0.0834				9.0		20.0			
1,2-Dichloroethane	2.8805 2.3316	2.5748 2.3330	2.7615 2.4546	2.5235	2.6059	Ave		2.5582			0.1000	7.6		20.0			
n-Heptane	1.7650 1.5368	2.0318 1.7332	2.0960 1.8676	1.9228	1.9593	Ave		1.8641				9.7		20.0			
Trichloroethene	1.8768 1.5035	1.7455 1.5785	1.8315 1.7976	1.7650	1.7106	Ave		1.7261			0.2000	7.3		20.0			
Methylcyclohexane	1.9872 2.3308	3.0579 2.6630	3.0278 2.9573	2.7481	2.7073	Ave		2.6849			0.1000	13.7		20.0			
1,2-Dichloropropane	1.4653 1.3161	1.5659 1.3785	1.5346 1.4492	1.4666	1.5256	Ave		1.4627			0.1000	5.7		20.0			
Dibromomethane	1.1692 1.1053	1.2336 1.0905	1.1440 1.1843	1.1565	1.1837	Ave		1.1584			0.1000	4.0		20.0			
1,4-Dioxane	+++++ 0.0086	0.0087 0.0093	0.0099 0.0087	0.0091	0.0091	Ave		0.0091				5.1		20.0			
Bromodichloromethane	2.4530 2.0300	2.3419 2.1149	2.1820 2.3219	2.1605	2.2263	Ave		2.2288			0.2000	6.1		20.0			
2-Chloroethyl vinyl ether	0.9005 0.8403	0.9837 0.8137	0.9598 0.9059	0.8732	0.9648	Ave		0.9052				6.8		20.0			
cis-1,3-Dichloropropene	2.1546 2.2425	2.5293 2.2416	2.4262 2.5169	2.3294	2.4324	Ave		2.3591			0.2000	5.9		20.0			
4-Methyl-2-pentanone (MIBK)	0.8834 0.7791	0.8820 0.7574	0.9324 0.7507	0.8653	0.8632	Ave		0.8392			0.1000	8.0		20.0			
Toluene	1.9228 1.6373	1.7981 1.6973	2.0511 1.8102	1.8941	1.8396	Ave		1.8313			0.4000	7.1		20.0			
trans-1,3-Dichloropropene	0.9937 0.9956	1.0794 0.9842	1.1129 1.0865	1.0786	1.1095	Ave		1.0550			0.1000	5.2		20.0			
Ethyl methacrylate	0.9847 0.8666	0.9374 0.8352	0.9850 0.8594	0.9176	0.9623	Ave		0.9185				6.4		20.0			
1,1,2-Trichloroethane	0.6400 0.5120	0.5690 0.4947	0.5795 0.5308	0.5950	0.5673	Ave		0.5610			0.1000	8.4		20.0			
Tetrachloroethene	0.7899 0.7507	0.7510 0.7896	0.8565 0.8945	0.8238	0.7900	Ave		0.8058			0.2000	6.2		20.0			
1,3-Dichloropropane	1.0041 0.9962	1.1523 0.9921	1.1977 1.0831	1.1202	1.1236	Ave		1.0837				7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1 Analy Batch No.: 472790

SDG No.:

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/14/2019 15:56 Calibration End Date: 05/14/2019 18:42 Calibration ID: 36986

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.5238 1.7551	1.8570 1.9332	2.1075 1.7368	1.7267	1.7787	Ave		1.8024				9.5		20.0			
Benzene	4.8823 5.3405	5.2693 5.5870	5.7325 5.0779	5.4249	5.4493	Ave		5.3455			0.5000	5.1		20.0			
Isobutyl alcohol	0.0870 0.1032	0.0853 0.1011	0.0871 0.0950	0.0906	0.0973	Ave		0.0933				7.3		20.0			
1,2-Dichloroethane	2.9641 2.2239	2.3141 2.3101	2.2741 2.0906	2.2700	2.2717	Ave		2.3398			0.1000	11.2		20.0			
n-Heptane	2.0385 2.0147	2.1841 2.2445	2.2518 1.9689	1.9941	2.1880	Ave		2.1106				5.6		20.0			
Trichloroethene	1.4885 1.4536	1.3897 1.5351	1.6312 1.3721	1.4023	1.4074	Ave		1.4600			0.2000	6.0		20.0			
Methylcyclohexane	2.3695 2.2639	2.4894 2.5871	2.5502 2.2932	2.1215	2.3494	Ave		2.3780			0.1000	6.6		20.0			
1,2-Dichloropropane	1.4026 1.5419	1.5244 1.5888	1.5901 1.4544	1.6091	1.5077	Ave		1.5274			0.1000	4.7		20.0			
Dibromomethane	1.1174 1.0043	1.0116 1.0222	0.9309 0.9339	1.0001	1.0256	Ave		1.0057			0.1000	5.8		20.0			
1,4-Dioxane	+++++ 0.0058	0.0040 0.0057	0.0057 0.0052	0.0061	0.0057	Ave		0.0055				13.0		20.0			
Bromodichloromethane	2.0281 1.7473	1.7433 1.8162	1.6831 1.7235	1.6816	1.6574	Ave		1.7601			0.2000	6.8		20.0			
2-Chloroethyl vinyl ether	1.1543 1.2409	0.9035 1.2235	1.0658 1.1295	1.1938	1.2214	Ave		1.1416				9.8		20.0			
cis-1,3-Dichloropropene	1.9715 2.3886	2.2867 2.3953	2.0950 2.2135	2.2700	2.2814	Ave		2.2378			0.2000	6.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.4272 0.4749	0.4052 0.4751	0.4447 0.4272	0.4620	0.4757	Ave		0.4490			0.1000	6.0		20.0			
Toluene	0.9142 0.8420	0.8529 0.9049	0.9755 0.8063	0.8696	0.9064	Ave		0.8840			0.4000	5.9		20.0			
trans-1,3-Dichloropropene	0.5495 0.5349	0.4446 0.5654	0.5302 0.5166	0.5473	0.5488	Ave		0.5297			0.1000	7.1		20.0			
Ethyl methacrylate	0.5039 0.5217	0.4314 0.5341	0.4925 0.4832	0.5044	0.5197	Ave		0.4989				6.4		20.0			
1,1,2-Trichloroethane	0.2477 0.2814	0.2816 0.2924	0.2851 0.2625	0.2806	0.2794	Ave		0.2763			0.1000	5.2		20.0			
Tetrachloroethene	0.4205 0.3799	0.4153 0.4213	0.4481 0.3713	0.3822	0.4009	Ave		0.4049			0.2000	6.4		20.0			
1,3-Dichloropropane	0.6281 0.5802	0.5201 0.5873	0.5689 0.5319	0.5707	0.5801	Ave		0.5709				5.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCVIS 480-474552/5 Calibration Date: 05/24/2019 10:11

Instrument ID: HP5973C Calib Start Date: 05/20/2019 16:37

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/20/2019 19:44

Lab File ID: C7865.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
Dichlorodifluoromethane	Ave	2.069	2.369	0.1000	28.6	25.0	14.5	50.0
Chloromethane	Ave	1.980	2.206	0.1000	27.9	25.0	11.4	20.0
Vinyl chloride	Ave	1.886	1.976	0.1000	26.2	25.0	4.8	20.0
Butadiene	Ave	1.821	2.038		28.0	25.0	11.9	20.0
Bromomethane	Ave	1.292	1.428	0.1000	27.6	25.0	10.5	50.0
Chloroethane	Ave	1.142	1.151	0.1000	25.2	25.0	0.8	50.0
Dichlorofluoromethane	Ave	2.859	3.062		26.8	25.0	7.1	20.0
Trichlorofluoromethane	Ave	2.766	3.134	0.1000	28.3	25.0	13.3	20.0
Ethyl ether	Ave	1.365	1.336		24.5	25.0	-2.2	20.0
Acrolein	Ave	0.2680	0.2600		121	125	-3.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.572	2.027	0.1000	32.2	25.0	28.9*	20.0
1,1-Dichloroethene	Ave	1.536	1.738	0.1000	28.3	25.0	13.1	20.0
Acetone	Ave	0.6270	0.6655	0.1000	133	125	6.1	50.0
Iodomethane	Ave	3.163	3.745		29.6	25.0	18.4	20.0
Carbon disulfide	Ave	5.091	5.663	0.1000	27.8	25.0	11.2	20.0
Allyl chloride	Ave	2.710	2.912		26.9	25.0	7.5	20.0
Methyl acetate	Ave	1.361	1.287	0.1000	47.3	50.0	-5.5	50.0
Methylene Chloride	Lin1		2.082	0.1000	28.0	25.0	12.0	20.0
2-Methyl-2-propanol	Ave	0.2414	0.2549		264	250	5.6	50.0
Methyl tert-butyl ether	Ave	4.877	5.351	0.1000	27.4	25.0	9.7	20.0
trans-1,2-Dichloroethene	Ave	1.801	2.099	0.1000	29.1	25.0	16.5	20.0
Acrylonitrile	Ave	0.6671	0.7043		264	250	5.6	20.0
Hexane	Ave	1.849	2.361		31.9	25.0	27.7*	20.0
1,1-Dichloroethane	Ave	3.041	3.394	0.2000	27.9	25.0	11.6	20.0
Vinyl acetate	Ave	3.153	3.027		48.0	50.0	-4.0	20.0
2,2-Dichloropropane	Ave	2.022	2.415		29.9	25.0	19.5	20.0
cis-1,2-Dichloroethene	Ave	2.032	2.248	0.1000	27.7	25.0	10.6	20.0
2-Butanone (MEK)	Ave	0.7923	0.7984	0.1000	126	125	0.8	20.0
Chlorobromomethane	Ave	1.107	1.268		28.6	25.0	14.5	20.0
Tetrahydrofuran	Ave	0.5528	0.5352		48.4	50.0	-3.2	20.0
Chloroform	Ave	3.334	3.725	0.2000	27.9	25.0	11.7	20.0
1,1,1-Trichloroethane	Ave	2.713	3.243	0.1000	29.9	25.0	19.5	20.0
Cyclohexane	Ave	2.607	3.141	0.1000	30.1	25.0	20.5*	20.0
Carbon tetrachloride	Ave	2.443	2.913	0.1000	29.8	25.0	19.2	20.0
1,1-Dichloropropene	Ave	2.143	2.537		29.6	25.0	18.4	20.0
Benzene	Ave	6.199	7.014	0.5000	28.3	25.0	13.1	20.0
Isobutyl alcohol	Ave	0.0834	0.0688		516	625	-17.5	50.0
1,2-Dichloroethane	Ave	2.558	2.694	0.1000	26.3	25.0	5.3	20.0
n-Heptane	Ave	1.864	2.442		32.8	25.0	31.0*	20.0
Trichloroethene	Ave	1.726	1.964	0.2000	28.4	25.0	13.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCVIS 480-474552/5 Calibration Date: 05/24/2019 10:11

Instrument ID: HP5973C Calib Start Date: 05/20/2019 16:37

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/20/2019 19:44

Lab File ID: C7865.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	2.685	3.481	0.1000	32.4	25.0	29.6*	20.0
1,2-Dichloropropane	Ave	1.463	1.605	0.1000	27.4	25.0	9.7	20.0
1,4-Dioxane	Ave	0.0091	0.0119		659	500	31.8	50.0
Dibromomethane	Ave	1.158	1.287	0.1000	27.8	25.0	11.1	20.0
Bromodichloromethane	Ave	2.229	2.305	0.2000	25.9	25.0	3.4	20.0
2-Chloroethyl vinyl ether	Ave	0.9052	0.8595		23.7	25.0	-5.1	20.0
cis-1,3-Dichloropropene	Ave	2.359	2.481	0.2000	26.3	25.0	5.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8392	0.8641	0.1000	129	125	3.0	20.0
Toluene	Ave	1.831	2.105	0.4000	28.7	25.0	15.0	20.0
trans-1,3-Dichloropropene	Ave	1.055	1.100	0.1000	26.1	25.0	4.3	20.0
Ethyl methacrylate	Ave	0.9185	0.9496		25.8	25.0	3.4	20.0
1,1,2-Trichloroethane	Ave	0.5610	0.5996	0.1000	26.7	25.0	6.9	20.0
Tetrachloroethene	Ave	0.8058	1.019	0.2000	31.6	25.0	26.5*	20.0
1,3-Dichloropropane	Ave	1.084	1.241		28.6	25.0	14.5	20.0
2-Hexanone	Ave	0.5592	0.5670	0.1000	127	125	1.4	20.0
Dibromochloromethane	Ave	0.7820	0.7790	0.1000	24.9	25.0	-0.4	20.0
1,2-Dibromoethane	Ave	0.7176	0.8150		28.4	25.0	13.6	20.0
Chlorobenzene	Ave	2.179	2.542	0.5000	29.2	25.0	16.7	20.0
Ethylbenzene	Ave	3.579	4.103	0.1000	28.7	25.0	14.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8715	0.8959		25.7	25.0	2.8	20.0
m,p-Xylene	Ave	1.389	1.600	0.1000	28.8	25.0	15.2	20.0
o-Xylene	Ave	1.450	1.688	0.3000	29.1	25.0	16.5	20.0
Styrene	Ave	2.335	2.702	0.3000	28.9	25.0	15.7	20.0
Bromoform	Ave	0.4911	0.4589	0.1000	23.4	25.0	-6.6	50.0
Isopropylbenzene	Ave	3.336	3.963	0.1000	29.7	25.0	18.8	20.0
Bromobenzene	Ave	0.8607	0.9854		28.6	25.0	14.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9214	0.9608	0.3000	26.1	25.0	4.3	20.0
N-Propylbenzene	Ave	3.844	4.484		29.2	25.0	16.6	20.0
1,2,3-Trichloropropane	Ave	0.2969	0.3230		27.2	25.0	8.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2753	0.1792		16.3	25.0	-34.9 n/a	50.0
2-Chlorotoluene	Ave	0.8618	1.015		29.4	25.0	17.8	20.0
1,3,5-Trimethylbenzene	Ave	2.867	3.383		29.5	25.0	18.0	20.0
4-Chlorotoluene	Ave	0.8804	1.002		28.5	25.0	13.8	20.0
tert-Butylbenzene	Ave	0.6139	0.7473		30.4	25.0	21.7* n/a	20.0
1,2,4-Trimethylbenzene	Ave	2.950	3.427		29.0	25.0	16.2	20.0
sec-Butylbenzene	Ave	3.508	4.243		30.2	25.0	21.0* n/a	20.0
4-Isopropyltoluene	Ave	3.150	3.819		30.3	25.0	21.2* n/a	20.0
1,3-Dichlorobenzene	Ave	1.744	1.974	0.6000	28.3	25.0	13.2	20.0
1,4-Dichlorobenzene	Ave	1.750	1.992	0.5000	28.5	25.0	13.8	20.0
n-Butylbenzene	Ave	2.737	3.326		30.4	25.0	21.5* n/a	20.0
1,2-Dichlorobenzene	Ave	1.851	2.069	0.4000	27.9	25.0	11.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCVIS 480-474552/5 Calibration Date: 05/24/2019 10:11

Instrument ID: HP5973C Calib Start Date: 05/20/2019 16:37

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/20/2019 19:44

Lab File ID: C7865.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
1,2-Dibromo-3-Chloropropane	Ave	0.1887	0.1794	0.0500	23.8	25.0	-4.9	50.0
1,2,4-Trichlorobenzene	Ave	1.294	1.559	0.2000	30.1	25.0	20.5*	20.0
Hexachlorobutadiene	Ave	0.4964	0.6597		33.2	25.0	32.9* n/a	20.0
Naphthalene	Ave	3.607	4.148		28.8	25.0	15.0	20.0
1,2,3-Trichlorobenzene	Ave	1.236	1.508		30.5	25.0	22.0* n/a	20.0
Dibromofluoromethane (Surr)	Ave	1.722	1.791		26.0	25.0	4.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9415	0.9468		25.1	25.0	0.6	20.0
Toluene-d8 (Surr)	Ave	2.550	2.718		26.7	25.0	6.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8291	0.9091		27.4	25.0	9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCVIS 480-474456/3 Calibration Date: 05/23/2019 20:20

Instrument ID: HP5975T Calib Start Date: 05/14/2019 15:56

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/14/2019 18:42

Lab File ID: T1233.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
Dichlorodifluoromethane	Ave	1.687	0.8939	0.1000	13.2	25.0	-47.0	50.0
Chloromethane	Ave	2.328	1.607	0.1000	17.3	25.0	-31.0*	20.0
Butadiene	Ave	2.043	1.719		21.0	25.0	-15.9	20.0
Vinyl chloride	Ave	2.176	1.582	0.1000	18.2	25.0	-27.3*	20.0
Bromomethane	Ave	1.623	1.207	0.1000	18.6	25.0	-25.7	50.0
Chloroethane	Ave	1.508	1.125	0.1000	18.7	25.0	-25.4	50.0
Dichlorofluoromethane	Ave	3.419	2.676		19.6	25.0	-21.7*	20.0
Trichlorofluoromethane	Ave	2.849	2.199	0.1000	19.3	25.0	-22.8*	20.0
Ethyl ether	Ave	1.628	1.582		24.3	25.0	-2.8	20.0
Acrolein	Ave	0.3257	0.2615		100	125	-19.7	50.0
1,1-Dichloroethene	Ave	1.381	1.241	0.1000	22.5	25.0	-10.2	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.355	1.323	0.1000	24.4	25.0	-2.4	20.0
Acetone	Ave	0.6097	0.6042	0.1000	124	125	-0.9	50.0
Iodomethane	Ave	2.705	2.527		23.3	25.0	-6.6	20.0
Carbon disulfide	Ave	4.520	4.002	0.1000	22.1	25.0	-11.5	20.0
Allyl chloride	Ave	2.252	1.977		21.9	25.0	-12.2	20.0
Methyl acetate	Ave	1.358	1.219	0.1000	44.9	50.0	-10.2	50.0
Methylene Chloride	Ave	1.595	1.413	0.1000	22.1	25.0	-11.4	20.0
2-Methyl-2-propanol	Ave	0.2716	0.2301		212	250	-15.3	50.0
Methyl tert-butyl ether	Ave	4.181	3.904	0.1000	23.3	25.0	-6.6	20.0
trans-1,2-Dichloroethene	Ave	1.474	1.404	0.1000	23.8	25.0	-4.8	20.0
Acrylonitrile	Ave	0.7153	0.6797		238	250	-5.0	20.0
Hexane	Ave	2.283	2.224		24.4	25.0	-2.6	20.0
1,1-Dichloroethane	Ave	2.687	2.670	0.2000	24.8	25.0	-0.6	20.0
Vinyl acetate	Ave	3.167	2.930		46.3	50.0	-7.5	20.0
2,2-Dichloropropane	Ave	2.066	1.794		21.7	25.0	-13.2	20.0
cis-1,2-Dichloroethene	Ave	1.644	1.525	0.1000	23.2	25.0	-7.3	20.0
2-Butanone (MEK)	Ave	0.9151	0.8799	0.1000	120	125	-3.9	20.0
Chlorobromomethane	Ave	0.9098	0.8448		23.2	25.0	-7.1	20.0
Tetrahydrofuran	Ave	0.5796	0.5086		43.9	50.0	-12.3	20.0
Chloroform	Ave	2.584	2.405	0.2000	23.3	25.0	-6.9	20.0
1,1,1-Trichloroethane	Ave	2.162	2.134	0.1000	24.7	25.0	-1.3	20.0
Cyclohexane	Ave	2.617	2.743	0.1000	26.2	25.0	4.8	20.0
Carbon tetrachloride	Ave	1.761	1.911	0.1000	27.1	25.0	8.5	20.0
1,1-Dichloropropene	Ave	1.802	1.808		25.1	25.0	0.3	20.0
Benzene	Ave	5.345	5.207	0.5000	24.4	25.0	-2.6	20.0
Isobutyl alcohol	Ave	0.0933	0.0816		547	625	-12.5	50.0
1,2-Dichloroethane	Ave	2.340	2.200	0.1000	23.5	25.0	-6.0	20.0
n-Heptane	Ave	2.111	2.072		24.5	25.0	-1.8	20.0
Trichloroethene	Ave	1.460	1.395	0.2000	23.9	25.0	-4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCVIS 480-474456/3 Calibration Date: 05/23/2019 20:20

Instrument ID: HP5975T Calib Start Date: 05/14/2019 15:56

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 05/14/2019 18:42

Lab File ID: T1233.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	2.378	2.315	0.1000	24.3	25.0	-2.7	20.0
1,2-Dichloropropane	Ave	1.527	1.529	0.1000	25.0	25.0	0.0	20.0
Dibromomethane	Ave	1.006	0.9640	0.1000	24.0	25.0	-4.2	20.0
1,4-Dioxane	Ave	0.0055	0.0045		413	500	-17.5	50.0
Bromodichloromethane	Ave	1.760	1.714	0.2000	24.3	25.0	-2.6	20.0
2-Chloroethyl vinyl ether	Ave	1.142	1.095		24.0	25.0	-4.0	20.0
cis-1,3-Dichloropropene	Ave	2.238	2.107	0.2000	23.5	25.0	-5.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4490	0.4434	0.1000	123	125	-1.3	20.0
Toluene	Ave	0.8840	0.8349	0.4000	23.6	25.0	-5.6	20.0
trans-1,3-Dichloropropene	Ave	0.5297	0.4895	0.1000	23.1	25.0	-7.6	20.0
Ethyl methacrylate	Ave	0.4989	0.4598		23.0	25.0	-7.8	20.0
1,1,2-Trichloroethane	Ave	0.2763	0.2579	0.1000	23.3	25.0	-6.7	20.0
Tetrachloroethene	Ave	0.4049	0.3858	0.2000	23.8	25.0	-4.7	20.0
1,3-Dichloropropane	Ave	0.5709	0.5300		23.2	25.0	-7.2	20.0
2-Hexanone	Ave	0.3224	0.3287	0.1000	127	125	2.0	20.0
Dibromochloromethane	Ave	0.3098	0.3272	0.1000	26.4	25.0	5.6	20.0
1,2-Dibromoethane	Ave	0.3574	0.3390		23.7	25.0	-5.2	20.0
Chlorobenzene	Ave	1.026	0.9907	0.5000	24.2	25.0	-3.4	20.0
Ethylbenzene	Ave	1.676	1.599	0.1000	23.9	25.0	-4.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3375	0.3465		25.7	25.0	2.7	20.0
m,p-Xylene	Ave	0.6621	0.6186	0.1000	23.4	25.0	-6.6	20.0
o-Xylene	Ave	0.6427	0.6161	0.3000	24.0	25.0	-4.1	20.0
Styrene	Ave	1.088	1.022	0.3000	23.5	25.0	-6.0	20.0
Bromoform	Ave	0.2119	0.2068	0.1000	24.4	25.0	-2.4	50.0
Isopropylbenzene	Ave	2.906	2.826	0.1000	24.3	25.0	-2.8	20.0
Bromobenzene	Ave	0.8314	0.7759		23.3	25.0	-6.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8627	0.8132	0.3000	23.6	25.0	-5.7	20.0
N-Propylbenzene	Ave	3.567	3.378		23.7	25.0	-5.3	20.0
1,2,3-Trichloropropane	Ave	0.2854	0.2579		22.6	25.0	-9.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3158	0.1896		15.0	25.0	-39.9	50.0
2-Chlorotoluene	Ave	0.7350	0.6913		23.5	25.0	-6.0	20.0
1,3,5-Trimethylbenzene	Ave	2.519	2.378		23.6	25.0	-5.6	20.0
4-Chlorotoluene	Ave	2.461	2.298		23.3	25.0	-6.6	20.0
tert-Butylbenzene	Ave	0.5629	0.5609		24.9	25.0	-0.4	20.0
1,2,4-Trimethylbenzene	Ave	2.517	2.393		23.8	25.0	-4.9	20.0
sec-Butylbenzene	Ave	3.217	3.069		23.9	25.0	-4.6	20.0
4-Isopropyltoluene	Ave	2.756	2.685		24.4	25.0	-2.6	20.0
1,3-Dichlorobenzene	Ave	1.592	1.528	0.6000	24.0	25.0	-4.0	20.0
1,4-Dichlorobenzene	Ave	1.607	1.457	0.5000	22.7	25.0	-9.3	20.0
n-Butylbenzene	Ave	2.579	2.455		23.8	25.0	-4.8	20.0
1,2-Dichlorobenzene	Ave	1.570	1.489	0.4000	23.7	25.0	-5.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/6 Calibration Date: 05/23/2019 12:01

Instrument ID: HP6890-7 Calib Start Date: 05/10/2019 21:56

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/10/2019 22:28

Lab File ID: 7_44-006.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1221 Peak 1	Lin1		0.0069		0.634	0.500	26.8*	20.0
PCB-1221 Peak 2	Lin1		0.0134		0.583	0.500	16.6	20.0
PCB-1221 Peak 3	Lin1		0.0049		0.357	0.500	-28.6*	20.0
PCB-1221 Peak 4	Ave	0.0394	0.0453		0.574	0.500	14.8	20.0
PCB-1254 Peak 1	Ave	0.0661	0.0685		0.518	0.500	3.7	20.0
PCB-1254 Peak 2	Ave	0.0749	0.0671		0.447	0.500	-10.5	20.0
PCB-1254 Peak 3	Ave	0.0451	0.0433		0.480	0.500	-4.0	20.0
PCB-1254 Peak 4	Ave	0.0917	0.0901		0.491	0.500	-1.7	20.0
PCB-1254 Peak 5	Ave	0.0849	0.0871		0.513	0.500	2.5	20.0

avg = 21.7

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/7 Calibration Date: 05/23/2019 12:14

Instrument ID: HP6890-7 Calib Start Date: 05/12/2019 16:00

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/12/2019 16:32

Lab File ID: 7_44-007.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0253	0.0298		0.589	0.500	17.8	20.0
PCB-1232 Peak 2	Ave	0.0169	0.0212		0.627	0.500	25.4*	20.0
PCB-1232 Peak 3	Ave	0.0132	0.0160		0.604	0.500	20.8*	20.0
PCB-1232 Peak 4	Lin1		0.0386		0.537	0.500	7.3	20.0
PCB-1232 Peak 5	Ave	0.0127	0.0152		0.602	0.500	20.3*	20.0
PCB-1262 Peak 1	Ave	0.0490	0.0505		0.516	0.500	3.1	20.0
PCB-1262 Peak 2	Ave	0.0735	0.0735		0.500	0.500	0.0	20.0
PCB-1262 Peak 3	Ave	0.1365	0.1656		0.606	0.500	21.3*	20.0
PCB-1262 Peak 4	Ave	0.0585	0.0606		0.519	0.500	3.7	20.0
PCB-1262 Peak 5	Ave	0.0647	0.0744		0.575	0.500	15.1	20.0

AVG = 18.3

n/a

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1
SDG No.:
Lab Sample ID: CCV 480-474391/7 Calibration Date: 05/23/2019 12:14
Instrument ID: HP6890-7 Calib Start Date: 05/12/2019 16:00
GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/12/2019 16:32
Lab File ID: 7_44-007.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1232 Peak 1	Ave	0.0270	0.0313		0.580	0.500	16.0	20.0
PCB-1232 Peak 2	Lin1		0.0270		0.603	0.500	20.6*	20.0
PCB-1232 Peak 3	Ave	0.0463	0.0481		0.520	0.500	3.9	20.0
PCB-1232 Peak 4	Lin1		0.0196		0.603	0.500	20.5*	20.0
PCB-1232 Peak 5	Lin1		0.0135		0.586	0.500	17.1	20.0
PCB-1262 Peak 1	Lin1		0.0510		0.611	0.500	22.3*	20.0
PCB-1262 Peak 2	Lin1		0.0554		0.621	0.500	24.1*	20.0
PCB-1262 Peak 3	Lin1		0.0734		0.614	0.500	22.9*	20.0
PCB-1262 Peak 4	Lin1		0.0591		0.594	0.500	18.8	20.0
PCB-1262 Peak 5	Lin1		0.0666		0.556	0.500	11.2	20.0

Avg = 15.6
n/a

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/8 Calibration Date: 05/23/2019 12:26

Instrument ID: HP6890-7 Calib Start Date: 05/11/2019 00:03

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2019 00:35

Lab File ID: 7_44-008.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1242 Peak 1	Ave	0.0193	0.0218		0.567	0.500	13.4	20.0
PCB-1242 Peak 2	Ave	0.0383	0.0402		0.525	0.500	5.0	20.0
PCB-1242 Peak 3	Ave	0.0654	0.0812		0.621	0.500	24.1*	20.0
PCB-1242 Peak 4	Ave	0.0387	0.0411		0.531	0.500	6.2	20.0
PCB-1242 Peak 5	Ave	0.0306	0.0359		0.586	0.500	17.3	20.0
PCB-1268 Peak 1	Ave	0.1820	0.1914		0.526	0.500	5.2	20.0
PCB-1268 Peak 2	Ave	0.1788	0.2198		0.615	0.500	22.9*	20.0
PCB-1268 Peak 3	Ave	0.1485	0.1599		0.539	0.500	7.7	20.0
PCB-1268 Peak 4	Ave	0.4680	0.5112		0.546	0.500	9.2	20.0
PCB-1268 Peak 5	Lin1		0.1029		0.561	0.500	12.2	20.0

13.2 AVG
n/a

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/9 Calibration Date: 05/23/2019 12:38

Instrument ID: HP6890-7 Calib Start Date: 05/11/2019 01:06

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/11/2019 01:38

Lab File ID: 7_44-009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0313		0.529	0.500	5.7	20.0
PCB-1248 Peak 2	Lin1		0.0203		0.469	0.500	-6.2	20.0
PCB-1248 Peak 3	Lin1		0.0369		0.504	0.500	0.8	20.0
PCB-1248 Peak 4	Lin1		0.0509		0.579	0.500	15.8	20.0
PCB-1248 Peak 5	Lin1		0.0335		0.616	0.500	23.2*	20.0

Avg = 10.3

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/9 Calibration Date: 05/23/2019 12:38

Instrument ID: HP6890-7 Calib Start Date: 05/11/2019 01:06

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/11/2019 01:38

Lab File ID: 7_44-009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1248 Peak 1	Lin1		0.0355		0.594	0.500	18.8	20.0
PCB-1248 Peak 2	Lin1		0.0435		0.582	0.500	16.4	20.0
PCB-1248 Peak 3	Lin1		0.0598		0.592	0.500	18.4	20.0
PCB-1248 Peak 4	Lin1		0.0480		0.594	0.500	18.8	20.0
PCB-1248 Peak 5	Lin1		0.0297		0.619	0.500	23.7*	20.0

Avg = 19.2

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/31 Calibration Date: 05/23/2019 18:15

Instrument ID: HP6890-7 Calib Start Date: 05/10/2019 18:45

GC Column: ZB-5 ID: 0.53(mm) Calib End Date: 05/10/2019 20:21

Lab File ID: 7_44-031.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0462	0.0501		0.542	0.500	8.4	20.0
PCB-1016 Peak 2	Ave	0.0339	0.0426		0.627	0.500	25.5*	20.0
PCB-1016 Peak 3	Ave	0.0824	0.1078		0.654	0.500	30.8*	20.0
PCB-1016 Peak 4	Ave	0.0251	0.0325		0.649	0.500	29.8*	20.0
PCB-1016 Peak 5	Ave	0.0381	0.0489		0.642	0.500	28.5*	20.0
PCB-1260 Peak 1	Ave	0.0619	0.0796		0.643	0.500	28.6*	20.0
PCB-1260 Peak 2	Ave	0.0632	0.0760		0.601	0.500	20.2*	20.0
PCB-1260 Peak 3	Ave	0.0872	0.1144		0.656	0.500	31.2*	20.0
PCB-1260 Peak 4	Ave	0.1258	0.1753		0.696	0.500	39.3*	20.0
PCB-1260 Peak 5	Ave	0.0639	0.0790		0.618	0.500	23.5*	20.0
Tetrachloro-m-xylene	Lin1		1.702		0.0160	0.0125	28.4*	20.0
DCB Decachlorobiphenyl	Lin1		1.470		0.0167	0.0125	33.9*	20.0

N/A

1016 Avg = 24.6
1260 Avg = 28.6

FORM VII 8082A

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 480-474391/31 Calibration Date: 05/23/2019 18:15

Instrument ID: HP6890-7 Calib Start Date: 05/10/2019 18:45

GC Column: ZB-35 ID: 0.53(mm) Calib End Date: 05/10/2019 20:21

Lab File ID: 7_44-031.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0248	0.0310		0.626	0.500	25.1*|	20.0
PCB-1016 Peak 2	Ave	0.1076	0.1319		0.613	0.500	22.6*|	20.0
PCB-1016 Peak 3	Ave	0.0420	0.0529		0.630	0.500	26.0*|	20.0
PCB-1016 Peak 4	Ave	0.0239	0.0300		0.629	0.500	25.9*|	20.0
PCB-1016 Peak 5	Ave	0.0328	0.0384		0.586	0.500	17.2	20.0
PCB-1260 Peak 1	Ave	0.0631	0.0768		0.609	0.500	21.7*|	20.0
PCB-1260 Peak 2	Ave	0.0719	0.0878		0.611	0.500	22.1*|	20.0
PCB-1260 Peak 3	Ave	0.0630	0.0789		0.626	0.500	25.2*|	20.0
PCB-1260 Peak 4	Ave	0.0564	0.0672		0.595	0.500	19.0	20.0
PCB-1260 Peak 5	Ave	0.1163	0.1490		0.640	0.500	28.0*|	20.0
Tetrachloro-m-xylene	Ave	1.520	1.758		0.0145	0.0125	15.7	20.0
DCB Decachlorobiphenyl	Ave	1.039	1.288		0.0155	0.0125	24.0*	20.0

1060 Avg = 23.4

1260 Avg = 23.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-474552/7

Matrix: Water Lab File ID: C7868.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/24/2019 11:31

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.: 474552 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
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
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
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
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
123-91-1	1,4-Dioxane	ND		40	9.3
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	0.251	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
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		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74

FORM II
PCBS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-35 ID: 0.53(mm) GC Column (2): ZB-5 ID: 0.53(mm)

Client Sample ID	Lab Sample ID	TCX1	#	TCX2	#	DCBP1	#	DCBP2	#
ML-MW-11	480-153772-1	93		129	X	57		64	
ML-BR-7	480-153772-2	99		135	X	59		66	
ML-MW-4DR	480-153772-3	94		112		55		61	
ML-BR-3	480-153772-4	95		128	X	58		66	
ML-BR-5	480-153772-5	96		134	X	58		64	
ML-BR-6	480-153772-6	89		119		52		57	
ML-MW-13	480-153772-7	104		138	X	47		52	
ML-MW-8	480-153772-8	92		109		43		45	
ML-MW-6	480-153772-9	88		103		59		65	
ML-MW-7	480-153772-10	104		120		63		71	
ML-MW-7D	480-153772-11	100		111		72		82	
ML-MW-5	480-153772-12	88		102		49		53	
ML-MW-2	480-153772-14	91		102		83		94	
	MB 480-474079/1-A	75		105		48		51	
	LCS 480-474079/2-A	83		113		46		48	
ML-MW-8 MS	480-153772-8 MS	82		103		38		38	
ML-MW-8 MSD	480-153772-8 MSD	79		98		31		29	

	QC LIMITS
TCX = Tetrachloro-m-xylene	39-121
DCBP = DCB Decachlorobiphenyl	19-120

Column to be used to flag recovery values

FORM II 8082A

FORM II

PESTICIDES SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

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	#
ML-MW-11	480-153772-1	91		69		45		48	
ML-BR-7	480-153772-2	80		74		53		56	
ML-MW-4DR	480-153772-3	81		71		42		42	
ML-BR-3	480-153772-4	88		67		47		49	
ML-BR-5	480-153772-5	86		124	X	44		41	
ML-BR-6	480-153772-6	88		68		47		50	
ML-MW-13	480-153772-7	89		69		43		43	
ML-MW-8	480-153772-8	93		53		40		41	
ML-MW-6	480-153772-9	88		73		45		47	
ML-MW-7	480-153772-10	88		72		58		59	
ML-MW-7D	480-153772-11	83		68		58		58	
ML-MW-5	480-153772-12	82		69		50		50	
ML-MW-2	480-153772-14	82		59		52		52	
	MB 480-473976/1-A	80		69		51		52	
	LCS 480-473976/2-A	90		71		50		51	
ML-MW-8 MS	480-153772-8 MS	91		75		61		46	
ML-MW-8 MSD	480-153772-8 MSD	93		55		34		34	

	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
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W0532.D

Lab ID: 480-153772-8 MSD Client ID: ML-MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4,5-Trichlorophenol	32.0	24.9	78	2	18	65-126	
2,4,6-Trichlorophenol	32.0	32.7	102	3	19	64-120	
2,4-Dichlorophenol	32.0	26.5	83	4	19	48-132	
2,4-Dimethylphenol	32.0	27.3	85	3	42	39-130	
2,4-Dinitrophenol	64.0	54.1	85	12	22	21-150	
2,4-Dinitrotoluene	32.0	31.1	97	21	20	54-138	F2
2,6-Dinitrotoluene	32.0	26.3	82	17	15	17-150	F2
2-Chloronaphthalene	32.0	25.1	79	6	21	52-124	
2-Chlorophenol	32.0	26.3	80	5	25	48-120	
2-Methylnaphthalene	32.0	25.2	79	5	21	34-140	
2-Methylphenol	32.0	24.6	77	4	27	46-120	
2-Nitroaniline	32.0	30.6	96	18	15	44-136	F2
2-Nitrophenol	32.0	27.9	87	5	18	38-141	
3,3'-Dichlorobenzidine	64.0	18.4	29	18	25	10-150	
3-Nitroaniline	32.0	17.1	53	11	19	32-150	
4,6-Dinitro-2-methylphenol	64.0	66.6	104	4	15	38-150	
4-Bromophenyl phenyl ether	32.0	28.4	89	11	15	63-126	
4-Chloro-3-methylphenol	32.0	37.3	117	5	27	64-127	
4-Chloroaniline	32.0	13.7	43	24	22	16-124	F2
4-Chlorophenyl phenyl ether	32.0	24.7	77	11	16	61-120	
4-Methylphenol	32.0	24.1	75	4	24	36-120	
4-Nitroaniline	32.0	22.0	69	6	24	32-150	
4-Nitrophenol	64.0	39.8	62	4	48	23-132	
Acenaphthene	32.0	26.9	84	3	24	48-120	
Acenaphthylene	32.0	28.9	90	3	18	63-120	
Acetophenone	32.0	25.4	77	8	20	53-120	
Anthracene	32.0	29.7	93	3	15	65-122	
Atrazine	64.0	50.5	79	11	20	50-150	
Benzaldehyde	64.0	46.5	73	4	20	10-150	
Benzo[a]anthracene	32.0	27.6	86	4	15	43-124	
Benzo[a]pyrene	32.0	23.7	74	4	15	23-125	
Benzo[b]fluoranthene	32.0	25.8	81	5	15	27-127	
Benzo[g,h,i]perylene	32.0	26.0	81	2	15	16-147	
Benzo[k]fluoranthene	32.0	24.9	78	2	22	20-124	
Biphenyl	32.0	25.5	80	5	20	57-120	
bis (2-chloroisopropyl) ether	32.0	23.3	73	9	24	28-121	
Bis(2-chloroethoxy)methane	32.0	24.6	77	8	17	44-128	
Bis(2-chloroethyl)ether	32.0	26.1	82	7	21	45-120	
Bis(2-ethylhexyl) phthalate	32.0	28.6	81	3	15	16-150	
Butyl benzyl phthalate	32.0	28.0	88	9	16	51-140	
Caprolactam	64.0	19.2	30	3	20	10-120	
Carbazole	32.0	30.6	96	2	20	16-148	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low Lab File ID: W0532.D

Lab ID: 480-153772-8 MSD Client ID: ML-MW-8 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Chrysene	32.0	26.2	82	3	15	44-122	
Dibenz(a,h)anthracene	32.0	25.4	79	2	15	16-139	
Dibenzofuran	32.0	27.6	86	1	15	60-120	
Diethyl phthalate	32.0	29.7	91	19	15	53-133	F2
Dimethyl phthalate	32.0	26.4	83	12	15	59-123	
Di-n-butyl phthalate	32.0	32.4	100	4	15	65-129	
Di-n-octyl phthalate	32.0	29.0	91	3	16	16-150	
Fluoranthene	32.0	32.0	100	13	15	63-129	
Fluorene	32.0	28.2	88	2	15	62-120	
Hexachlorobenzene	32.0	31.1	97	1	15	57-121	
Hexachlorobutadiene	32.0	19.8	62	10	44	37-120	
Hexachlorocyclopentadiene	32.0	17.7	55	18	49	21-120	
Hexachloroethane	32.0	22.5	70	12	46	16-130	
Indeno[1,2,3-cd]pyrene	32.0	25.6	80	1	15	16-140	
Isophorone	32.0	25.8	81	7	17	48-133	
Naphthalene	32.0	23.7	74	7	29	45-120	
Nitrobenzene	32.0	25.6	80	7	24	45-123	
N-Nitrosodi-n-propylamine	32.0	25.6	80	7	31	49-120	
N-Nitrosodiphenylamine	32.0	30.4	90	13	15	39-138	
Pentachlorophenol	64.0	70.7	111	7	37	23-149	
Phenanthrene	32.0	38.0	119	1	15	65-122	
Phenol	32.0	17.4	53	4	34	16-120	
Pyrene	32.0	27.2	85	5	19	58-128	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T1235.D

Lab ID: LCS 480-474456/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.1	100	73-126	
1,1,2,2-Tetrachloroethane	25.0	22.5	90	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4	94	61-148	
1,1,2-Trichloroethane	25.0	23.2	93	76-122	
1,1-Dichloroethane	25.0	24.3	97	77-120	
1,1-Dichloroethene	25.0	21.7	87	66-127	
1,2,4-Trichlorobenzene	25.0	22.9	91	79-122	
1,2-Dibromo-3-Chloropropane	25.0	21.4	86	56-134	
1,2-Dibromoethane	25.0	23.1	92	77-120	
1,2-Dichlorobenzene	25.0	23.1	92	80-124	
1,2-Dichloroethane	25.0	23.8	95	75-120	
1,2-Dichloropropane	25.0	24.3	97	76-120	
1,3-Dichlorobenzene	25.0	22.6	90	77-120	
1,4-Dichlorobenzene	25.0	22.9	92	80-120	
1,4-Dioxane	500	391	78	50-150	
2-Butanone (MEK)	125	114	91	57-140	
2-Hexanone	125	119	96	65-127	
4-Methyl-2-pentanone (MIBK)	125	118	94	71-125	
Acetone	125	121	97	56-142	
Benzene	25.0	24.2	97	71-124	
Bromodichloromethane	25.0	24.3	97	80-122	
Bromoform	25.0	23.6	94	61-132	
Bromomethane	25.0	18.8	75	55-144	
Carbon disulfide	25.0	22.1	88	59-134	
Carbon tetrachloride	25.0	27.2	109	72-134	
Chlorobenzene	25.0	23.7	95	80-120	
Chloroethane	25.0	19.0	76	69-136	
Chloroform	25.0	23.4	94	73-127	
Chloromethane	25.0	16.9	68	68-124	
cis-1,2-Dichloroethene	25.0	23.1	92	74-124	
cis-1,3-Dichloropropene	25.0	23.4	94	74-124	
Cyclohexane	25.0	26.0	104	59-135	
Dibromochloromethane	25.0	25.6	102	75-125	
Dichlorodifluoromethane	25.0	13.1	52	59-135	*
Ethylbenzene	25.0	23.1	93	77-123	
Isopropylbenzene	25.0	24.1	96	77-122	
Methyl acetate	50.0	43.7	87	74-133	
Methyl tert-butyl ether	25.0	22.8	91	77-120	
Methylcyclohexane	25.0	24.4	98	68-134	
Methylene Chloride	25.0	22.1	88	75-124	
Styrene	25.0	22.7	91	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-473977/1-A

Matrix: Water Lab File ID: W0527.D

Analysis Method: 8270D Date Collected:

Extract. Method: 3510C Date Extracted: 05/21/2019 15:03

Sample wt/vol: 250(mL) Date Analyzed: 05/29/2019 06:02

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.: 474963 Units: ug/L

Number TICs Found: 10 TIC Result Total: 156.603

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Unknown	2.91	3.32	T J	
110-82-7	Cyclohexane	3.08	8.41	T J N	95%
	Unknown	3.34	66.3	T J	
110-86-1	Pyridine	4.14	0.873	J	90%
	column bleed	4.88	11.8	T J	
	Unknown	5.16	43.6	T J	
	column bleed	7.17	13.1	T J	
	column bleed	8.05	4.59	T J	
	Unknown	8.82	2.84	T J	
	Unknown	9.50	1.77	T J	

Data Usability Summary Report

Site: Mayer Landfill
Laboratory: Eurofins TestAmerica Buffalo – Amherst, NY and Burlington, VT
SDG No.: 480-153772-1
Parameters: Per- and Poly-fluoroalkyl Substances, 1,4-Dioxane
Data Reviewer: Lisa Krowitz/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: September 5, 2019

Samples Reviewed and Evaluation Summary

4 Groundwater Samples : ML-MW-4DR, ML-MW-5, ML-MW-8, ML-MW-13

1 Equipment Blank Sample: ML-EQUIPMENT BLANK

The above-listed groundwater and equipment blank samples were collected on May 15 and 16, 2019 and were analyzed for one or more of the following parameters:

- 1,4-Dioxane by SW-846 8270D with Selective Ion Monitoring (SIM)
- Per- and Poly-fluoroalkyl substances (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 TestAmerica – Buffalo, NY and for PFAS by TestAmerica – Burlington, VT. The data validation was performed in accordance with the following USEPA guidance, modified for the methodologies utilized:

- USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-2017-002), January 2017
- USEPA National Functional Guidelines for High Resolution Superfund Methods Data Review (EPA-542-B-16-001), April 2016

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)
- 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
- Target Compound Identification

* - All criteria were met.
NA - Field duplicates were not associated with this sample set.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. There were no qualifications applied to the data because of sampling error. Qualifications applied to the data because of analytical error are discussed below.

- Potential uncertainty exists for select PFAS results that were below the lowest calibration standard and quantitation limit (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 and 6:2 FTS in samples ML-MW-4DR and ML-MW-8; and for PFPeA in sample ML-MW-13 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 result for PFBA in sample ML-MW-8 was qualified as estimated (UJ) due to low isotopically labeled surrogate recovery. This result can be used for project objectives as a nondetect with an estimated QL, which may have a minor impact on the data usability.

- The positive results for PFHxS and PFOS in sample ML-MW-8 were qualified as estimated (J) due to high MS %Rs and MS/MSD variability. 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 PFPeA in sample ML-MW-8 was qualified as estimated with a potential high bias (J+) due to high MSD recovery. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability.

- The positive results for PFBS in samples ML-MW-5 and ML-MW-8; and for PFHxS in sample ML-MW-13 were qualified as estimated (J) due to the ratio between the two precursor/product ion transitions being outside the acceptance limits and detection below the QL. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met for the 1,4-dioxane and PFAS analyses.

GC/MS Tunes (1,4-Dioxane only)

All criteria were met in the 1,4-dioxane analyses.

Initial and Continuing Calibrations

1,4-Dioxane

The percent relative standard deviation (%RSD) was within the method acceptance criteria in the initial calibration (IC). The percent differences (%Ds) met the method acceptance criteria in the continuing calibration (CC) standard associated with the samples in this data set.

PFAS

The %RSDs in the ICs were within the method acceptance criteria. The following table summarizes the %Ds that did not meet the laboratory acceptance criteria in the CCs, the associated samples, and the validation actions.

Calibration ID Date/Time	Compound	%D	Validation Action
CC 200-143837/30 6/7/19 @ 16:16	PFPeA	45.4	The nondetect result for PFPeA in sample ML-MW-13 was qualified as estimated (UJ).
Associated sample: ML-MW-13			
CC 200-143596/64 5/31/19 @ 05:27	PFBA	70.6	The nondetect results for PFBA and 6:2 FTS in samples ML-MW-4DR and ML-MW-8 were qualified as estimated (UJ).
	6:2 FTS	56.8	
Associated samples: ML-MW-4DR, ML-MW-8			

Blanks

There were no detections of target compounds in the associated method blanks and equipment blank.

Surrogate Recoveries (1,4-Dioxane only)

The surrogate percent recoveries (%Rs) met the laboratory acceptance criteria in the 1,4-dioxane analyses.

Isotopically Labeled Surrogate Results (PFAS only)

Eighteen isotopically labeled surrogates were spiked into the samples prior to extraction for isotope dilution quantitation. The following table summarizes the %Rs that did not meet the laboratory acceptance limits and the resulting validation actions.

Sample ID	Surrogate	%R	Validation Actions
ML-MW-8	13C4-PFBA	20	The nondetect result for PFBA in sample ML-MW-8 was qualified as estimated (UJ).

Sample ID	Surrogate	%R	Validation Actions
ML-MW-8	M2-6:2 FTS	290	No qualification was required since 6:2 FTS and 8:2 FTS were nondetect in sample ML-MW-8.
	M2-8:2 FTS	369	
ML-MW-5 (5-fold dilution)	13C4-PFBA	155	No qualification was required since PFBA was nondetect in sample ML-MW-5.

MS/MSD Results

1,4-Dioxane

MS/MSD analyses were performed on sample ML-MW-8 for 1,4-dioxane. The %Rs and relative percent differences (RPDs) met the laboratory acceptance criteria.

PFAS

MS/MSD analyses were performed on sample ML-MW-8 for PFAS. The following table summarizes the %Rs and RPDs that did not meet the laboratory acceptance criteria.

MS/MSD ID	Compound	MS %R	MSD %R	RPD	QC Limit %Rs	Validation Actions
ML-MW-8	PFBA	324	243	-	40-160/20	No qualification was required since PFBA was nondetect in sample ML-MW-8.
	PFPeA	-	171	-	40-160/20	The positive result for PFPeA in sample ML-MW-8 was qualified as estimated with a potential high bias (J+).
	PFHxS	181	-	41	40-160/20	The positive results for PFHxS and PFOS in sample ML-MW-8 were qualified as estimated (J) due to high MS %R and MS/MSD variability.
	PFOS	161	-	21	40-160/20	

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 internal standard 1,4-dichlorobenzene-d_4 which was added to each sample 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

Sample calculations were spot-checked; there were no errors noted. Select PFAS results were below the lowest calibration standard level and QL. These results were qualified as estimated (J) by the laboratory.

The following table summarizes the dilutions performed on samples in this data set; QLs were elevated accordingly.

Sample ID	Parameter	Dilution	Reason for Dilution
ML-MW-5	PFBA	5-fold	A 5-fold dilution was performed for PFBA as part of the laboratory's standard procedure (i.e., when CCVs associated with an undiluted analysis of PFBA are outside of the acceptance limits, the laboratory re-analyzes samples with positive results for PFBA at a dilution).
ML-MW-8	1,4-Dioxane	10-fold	A 10-fold dilution was performed since the concentration of 1,4-dioxane would have exceeded the calibration range if analyzed undiluted.
	PFAS	5-fold	A 5-fold dilution was performed due to the presence of interfering non-target compounds.

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.

Two precursor/product ion transitions were used for identification for all compounds except for PFBA, PFPeA, FOSA, NMeFOSAA, NEtFOSAA, 6:2 FTS, and 8:2 FTS which only used one precursor/product ion transition for identification.

The following table summarizes the ratios between the two precursor/product ion transitions that did not meet the laboratory acceptance criteria and the validation actions.

Compound	Sample ID	Ratio	Ratio QC Limits	Validation Actions
PFBS	ML-MW-5	0.59	0.83-2.51	The positive results for PFBS in samples ML-MW-5 and ML-MW-8 were qualified as estimated (J).
	ML-MW-8	3.39		
PFHxS	ML-MW-13	2.21	0.67-2.01	The positive result for PFHxS in sample ML-MW-13 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.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: U33150606.D

Analysis Method: 8270D SIM ID Date Collected: 05/16/2019 12:25

Extract. Method: 3510C Date Extracted: 05/22/2019 07:58

Sample wt/vol: 1050(mL) Date Analyzed: 05/25/2019 01:39

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.: 474682 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.29		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	20		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: U33150608.D

Analysis Method: 8270D SIM ID Date Collected: 05/16/2019 15:50

Extract. Method: 3510C Date Extracted: 05/22/2019 07:58

Sample wt/vol: 1040(mL) Date Analyzed: 05/25/2019 02:26

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.: 474682 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.096

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	19		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: U33150590.D

Analysis Method: 8270D SIM ID Date Collected: 05/16/2019 11:35

Extract. Method: 3510C Date Extracted: 05/22/2019 07:58

Sample wt/vol: 1050(mL) Date Analyzed: 05/24/2019 19:20

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 474682 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.2		1.9	0.95

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	22		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: U33150607.D

Analysis Method: 8270D SIM ID Date Collected: 05/15/2019 17:20

Extract. Method: 3510C Date Extracted: 05/22/2019 07:58

Sample wt/vol: 1040(mL) Date Analyzed: 05/25/2019 02:02

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.: 474682 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.096

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	17		15-110

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-4DR Lab Sample ID: 480-153772-3

Matrix: Water Lab File ID: PF053019B70.d

Analysis Method: 537 (modified) Date Collected: 05/16/2019 12:25

Extraction Method: 3535 Date Extracted: 05/28/2019 12:09

Sample wt/vol: 290.4(mL) Date Analyzed: 05/31/2019 07:03

Con. Extract Vol.: 0.5(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.: 143596 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	~~ND~~		1.7 UJ ✓	0.86
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.54
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.66
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.69
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.53
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	~~ND~~		17 UJ ✓	4.0
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: PF053019B75.d

Analysis Method: 537 (modified) Date Collected: 05/16/2019 15:50

Extraction Method: 3535 Date Extracted: 05/28/2019 12:09

Sample wt/vol: 298.3(mL) Date Analyzed: 05/31/2019 08:23

Con. Extract Vol.: 0.5(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.: 143596 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.5		1.7	0.53
307-24-4	Perfluorohexanoic acid (PFHxA)	2.4		1.7	0.64
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.8		1.7	0.76
335-67-1	Perfluorooctanoic acid (PFOA)	10		1.7	0.53
375-95-1	Perfluorononanoic acid (PFNA)	1.1	J	1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.65
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.1		1.7	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.54
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.1	J	17	3.9
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-5 Lab Sample ID: 480-153772-12

Matrix: Water Lab File ID: PF060619A19.d

Analysis Method: 537 (modified) Date Collected: 05/16/2019 15:50

Extraction Method: 3535 Date Extracted: 05/28/2019 12:09

Sample wt/vol: 298.3(mL) Date Analyzed: 06/06/2019 17:10

Con. Extract Vol.: 0.5(mL) Dilution Factor: 5

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143813 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		8.4	4.2

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00992	13C4 PFBA	155	*	25-150

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-8 Lab Sample ID: 480-153772-8

Matrix: Water Lab File ID: PF053019B71.d

Analysis Method: 537 (modified) Date Collected: 05/16/2019 11:35

Extraction Method: 3535 Date Extracted: 05/28/2019 12:09

Sample wt/vol: 296.7(mL) Date Analyzed: 05/31/2019 07:19

Con. Extract Vol.: 0.5(mL) Dilution Factor: 5

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 143596 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	~~ND G F1~~		32 UJ ✓	32
2706-90-3	Perfluoropentanoic acid (PFPeA)	11 ~~F1~~ J+ ✓		8.4	2.7
307-24-4	Perfluorohexanoic acid (PFHxA)	27		8.4	3.2
375-85-9	Perfluoroheptanoic acid (PFHpA)	26		8.4	3.8
335-67-1	Perfluorooctanoic acid (PFOA)	120		8.4	2.7
375-95-1	Perfluorononanoic acid (PFNA)	ND		8.4	1.1
335-76-2	Perfluorodecanoic acid (PFDA)	ND		8.4	3.2
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		8.4	2.2
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		8.4	2.5
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		8.4	2.5
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		8.4	3.9
375-73-5	Perfluorobutanesulfonic acid (PFBS)	6.0	J	8.4	2.1
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	15 ~~F1 F2~~ J+ ✓		8.4	3.4
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		8.4	4.0
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	44 ~~F1 F2~~ J+ ✓		8.4	2.6
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		8.4	3.8
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		8.4	2.7
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		84	7.2
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	66	J	84	6.3
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	~~ND~~		84 UJ ✓	19
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		84	12

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-MW-13 Lab Sample ID: 480-153772-7

Matrix: Water Lab File ID: PF060719A24.d

Analysis Method: 537 (modified) Date Collected: 05/15/2019 17:20

Extraction Method: 3535 Date Extracted: 05/28/2019 07:49

Sample wt/vol: 293.7(mL) Date Analyzed: 06/07/2019 14:41

Con. Extract Vol.: 0.5(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.: 143837 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.7	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.77
335-67-1	Perfluorooctanoic acid (PFOA)	2.9		1.7	0.54
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.66
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.45
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.78
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.65	J	1.7	0.42
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.78	J	1.7	0.68
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.4		1.7	0.52
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.54
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	3.9
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Client Sample ID: ML-EQUIPMENT BLANK Lab Sample ID: 480-153772-13

Matrix: Water Lab File ID: PF053019B76.d

Analysis Method: 537 (modified) Date Collected: 05/16/2019 16:10

Extraction Method: 3535 Date Extracted: 05/28/2019 12:09

Sample wt/vol: 298.6(mL) Date Analyzed: 05/31/2019 08:38

Con. Extract Vol.: 0.5(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.: 143596 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.7	0.84
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.53
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.64
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.76
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.53
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.64
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.51
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.54
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	3.9
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.4

QC NONCONFORMANCE DOCUMENTATION

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 200-143837/30 Calibration Date: 06/07/2019 16:16

Instrument ID: LC410 Calib Start Date: 05/23/2019 12:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: PF060719A30.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.570	2.003		6380	5000	27.6	40.0
Perfluoropentanoic acid (PFPeA)	AveID	2.995	4.355		7270	5000	45.4*	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	2.513	3.204		5630	4420	27.5	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.325	2.374		8370	4670	79.2*	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.398	1.272		4550	5000	-9.0	40.0
Perfluoropentanesulfonic acid	AveID	2.841	4.160		6870	4690	46.4	50.0
HFPO-DA	AveID	1.078	1.341		6220	5000	24.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.174	1.098		4680	5000	-6.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	2.116	2.414		5190	4550	14.1	40.0
DONA	AveID	4.300	4.541		4970	4710	5.6	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.9451	0.7515		3770	4740	-20.5	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.012	1.093		5400	5000	8.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.8706	0.9704		5310	4760	11.5	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9657	0.9603		4610	4640	-0.6	40.0
Perfluorononanoic acid (PFNA)	AveID	0.8830	0.9639		5460	5000	9.2	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	4.397	5.387		5710	4660	22.5	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.7376	0.7647		4970	4790	3.7	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9155	0.8210		4480	5000	-10.3	40.0
Perfluorononanesulfonic acid	AveID	0.9697	1.103		5460	4800	13.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8257	0.8004		4850	5000	-3.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.038	1.118		5190	4820	7.7	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8053	0.9766		6060	5000	21.3	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8325	0.8669		5210	5000	4.1	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.424	1.328		4660	5000	-6.7	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	5.609	5.847		4910	4710	4.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9488	0.9185		4840	5000	-3.2	40.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	0.9295		4960	5000	-0.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.8487	0.8961		5280	5000	5.6	40.0
13C4 PFBA	Ave	0.2445	0.1782		36400	50000	-27.1	50.0
13C5 PFPeA	Ave	0.1855	0.1236		33300	50000	-33.4	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Lab Sample ID: CCV 200-143596/64 Calibration Date: 05/31/2019 05:27

Instrument ID: LC410 Calib Start Date: 05/23/2019 12:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 05/23/2019 14:26

Lab File ID: PF053019B64.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.570	2.679		8530	5000	70.6*	40.0
Perfluoropentanoic acid (PFPeA)	AveID	2.995	3.197		5340	5000	6.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	2.513	2.311		4060	4420	-8.0	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.325	1.386		4890	4670	4.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.398	1.417		5070	5000	1.4	40.0
Perfluoropentanesulfonic acid	AveID	2.841	2.660		4390	4690	-6.4	50.0
HFPO-DA	AveID	1.078	1.149		5330	5000	6.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.174	1.239		5280	5000	5.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	2.116	2.070		4450	4550	-2.2	40.0
DONA	AveID	4.300	5.162		5650	4710	20.1	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.9451	1.482		7430	4740	56.8*	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.012	1.010		4990	5000	-0.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	0.8706	1.012		5530	4760	16.2	50.0
Perfluorononanoic acid (PFNA)	AveID	0.8830	0.9394		5320	5000	6.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9657	0.9642		4630	4640	-0.2	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	4.397	4.969		5270	4660	13.0	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.7376	0.7606		4940	4790	3.1	40.0
Perfluorononanesulfonic acid	AveID	0.9697	0.9664		4780	4800	-0.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9155	0.8985		4910	5000	-1.9	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8257	0.9787		5930	5000	18.5	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8053	0.8178		5080	5000	1.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	1.038	0.9844		4570	4820	-5.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8325	0.8942		5370	5000	7.4	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	1.424	1.396		4900	5000	-2.0	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	5.609	5.944		4990	4710	6.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9488	0.9149		4820	5000	-3.6	40.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9373	0.9366		5000	5000	-0.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.8487	0.8617		5080	5000	1.5	40.0
13C4 PFBA	Ave	0.2445	0.1370		28000	50000	-44.0	50.0
13C5 PFPeA	Ave	0.1855	0.1532		41300	50000	-17.4	50.0

FORM VII 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #
ML-MW-5	480-153772-12	155 *

	QC LIMITS
PFBA = 13C4 PFBA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	M262FTS #	PFOA #
ML-MW-4DR	480-153772-3	60	66	72	80	92	64	97	85
ML-MW-13	480-153772-7	47	61	90	72	81	100	113	88
ML-MW-8	480-153772-8	20 *	48	51	61	84	59	290 *	89
ML-EQUIPMENT BLANK	480-153772-13	48	88	82	90	92	74	92	95
	MB 200-143465/1-A	109	89	102	98	91	77	115	90
	MB 200-143485/1-A	77	89	101	92	105	81	94	101
	LCS 200-143465/2-A	109	98	122	98	102	109	134	96
	LCS 200-143485/2-A	57	76	100	84	98	70	84	97
ML-MW-8 MS	480-153772-8 MS	24 *	39	69	56	93	42 *	323 *	98
ML-MW-8 MSD	480-153772-8 MSD	38	35	72	68	73	76	335 *	93

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHpA = 13C4 PFHpA	50-150
PFHxS = 18O2 PFHxS	50-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFNA #	PFOS #	M282FTS #	PFDA #	d3NMFOS #	d5NEFOS #	PFUnA #	PFOSA #
ML-MW-4DR	480-153772-3	78	65	93	85	67	71	86	52
ML-MW-13	480-153772-7	78	75	127	87	58	59	80	59
ML-MW-8	480-153772-8	96	81	369 *	105	84	113	113	59
ML-EQUIPMENT BLANK	480-153772-13	80	72	95	88	68	71	85	42
	MB 200-143465/1-A	78	88	118	84	65	79	92	83
	MB 200-143485/1-A	90	85	122	96	85	94	103	48
	LCS 200-143465/2-A	86	97	141	90	73	79	93	86
	LCS 200-143485/2-A	86	79	128	96	78	76	90	42
ML-MW-8 MS	480-153772-8 MS	91	67	307 *	112	73	97	106	52
ML-MW-8 MSD	480-153772-8 MSD	97	75	322 *	104	76	115	110	63

	QC LIMITS
PFNA = 13C5 PFNA	50-150
PFOS = 13C4 PFOS	50-150
M282FTS = M2-8:2 FTS	25-150
PFDA = 13C2 PFDA	50-150
d3NMFOS = d3-NMeFOSAA	50-150
d5NEFOS = d5-NEtFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
PFOSA = 13C8 FOSA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PF053019B72.d

Lab ID: 480-153772-8 MS Client ID: ML-MW-8 MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	33.4	ND	108	324	40-160	F1
Perfluoropentanoic acid (PFPeA)	33.4	11	50.9	120	40-160	
Perfluorohexanoic acid (PFHxA)	33.4	27	77.1	150	40-160	
Perfluoroheptanoic acid (PFHpA)	33.4	26	47.8	66	40-160	
Perfluorooctanoic acid (PFOA)	33.4	120	139	50	40-160	
Perfluorononanoic acid (PFNA)	33.4	ND	32.7	98	40-160	
Perfluorodecanoic acid (PFDA)	33.4	ND	31.3	94	40-160	
Perfluoroundecanoic acid (PFUnA)	33.4	ND	35.0	105	40-160	
Perfluorododecanoic acid (PFDoA)	33.4	ND	31.9	96	40-160	
Perfluorotridecanoic acid (PFTriA)	33.4	ND	24.4	73	40-160	
Perfluorotetradecanoic acid (PFTeA)	33.4	ND	37.1	111	40-160	
Perfluorobutanesulfonic acid (PFBS)	29.5	6.0 J	34.5	97	40-160	
Perfluorohexanesulfonic acid (PFHxS)	30.4	15	70.2	181	40-160	F1
Perfluoroheptanesulfonic Acid (PFHpS)	31.8	ND	34.8	110	40-160	
Perfluorooctanesulfonic acid (PFOS)	31.0	44	93.4	161	40-160	F1
Perfluorodecanesulfonic acid (PFDS)	32.2	ND	34.2	106	40-160	
Perfluorooctanesulfonamide (PFOSA)	33.4	ND	38.3	115	40-160	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	33.4	ND	30.6 J	92	40-160	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	33.4	66 J	107	122	40-160	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	31.6	ND	37.0 J	117	40-160	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	32.0	ND	26.2 J	82	40-160	
18O2 PFHxS	78.9	47	33.4	42	50-150	*
13C4 PFHpA	83.4	71	77.3	93	50-150	
13C4 PFOA	83.4	75	82.0	98	50-150	
13C4 PFOS	79.7	65	53.5	67	50-150	
13C5 PFNA	83.4	81	76.2	91	50-150	
13C4 PFBA	83.4	17	20.0	24	25-150	*
13C2 PFHxA	83.4	51	47.0	56	50-150	
13C2 PFDA	83.4	88	93.1	112	50-150	
13C2 PFUnA	83.4	96	88.1	106	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-153772-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PF053019B73.d

Lab ID: 480-153772-8 MSD Client ID: ML-MW-8 MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	33.5	81.2	243	28	30	40-160	F1
Perfluoropentanoic acid (PFPeA)	33.5	68.1	171	29	30	40-160	F1
Perfluorohexanoic acid (PFHxA)	33.5	63.2	108	20	20	40-160	
Perfluoroheptanoic acid (PFHpA)	33.5	57.3	94	18	20	40-160	
Perfluorooctanoic acid (PFOA)	33.5	148	79	7	20	40-160	
Perfluorononanoic acid (PFNA)	33.5	33.4	100	2	20	40-160	
Perfluorodecanoic acid (PFDA)	33.5	35.5	106	13	20	40-160	
Perfluoroundecanoic acid (PFUnA)	33.5	35.4	106	1	20	40-160	
Perfluorododecanoic acid (PFDoA)	33.5	31.6	94	1	20	40-160	
Perfluorotridecanoic acid (PFTriA)	33.5	24.3	72	1	20	40-160	
Perfluorotetradecanoic acid (PFTeA)	33.5	34.8	104	6	20	40-160	
Perfluorobutanesulfonic acid (PFBS)	29.6	38.8	111	12	20	40-160	
Perfluorohexanesulfonic acid (PFHxS)	30.5	46.1	101	41	20	40-160	F2
Perfluoroheptanesulfonic Acid (PFHpS)	31.9	36.0	113	3	30	40-160	
Perfluorooctanesulfonic acid (PFOS)	31.1	75.5	103	21	20	40-160	F2
Perfluorodecanesulfonic acid (PFDS)	32.3	32.4	100	5	30	40-160	
Perfluorooctanesulfonamide (PFOSA)	33.5	32.3	96	17	30	40-160	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	33.5	35.1 J	105	14	20	40-160	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	33.5	90.1	72	17	20	40-160	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	31.7	29.8 J	94	22	30	40-160	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	32.1	34.8 J	108	28	30	40-160	
18O2 PFHxS	79.2	60.1	76			50-150	
13C4 PFHpA	83.7	61.0	73			50-150	
13C4 PFOA	83.7	77.8	93			50-150	
13C4 PFOS	80.0	59.8	75			50-150	
13C5 PFNA	83.7	81.3	97			50-150	
13C4 PFBA	83.7	32.2	38			25-150	
13C2 PFHxA	83.7	56.9	68			50-150	
13C2 PFDA	83.7	86.9	104			50-150	
13C2 PFUnA	83.7	92.1	110			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PF053019B75.d
Lims ID: 480-153772-M-12-A
Client ID: ML-MW-5
Sample Type: Client
Inject. Date: 31-May-2019 08:23:04 ALS Bottle#: 0 Worklist Smp#: 75
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 200-0036138-075 12
Misc. Info.: PFAS27 053019B
Operator ID: JWM Instrument ID: LC410

Method: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PFCISO_10MRM_28.m
Limit Group: LC_PFC_ICAL
Last Update: 05-Jun-2019 17:26:40 Calib Date: 23-May-2019 14:26:50
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\LC410\20190523-36057.b\PF052319B10.d

Column 1 : C-18 (4.60 mm) Det: F1:MRM
Process Host: CTX0323

First Level Reviewer: murrayjw Date: 05-Jun-2019 10:49:37
Ratio Calibration: CCV Sample: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PF053019B74.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
216.9 > 171.5	2.370	2.391	-0.021	1.000	85583	18.6		37.2	33.4	M
2 Perfluorobutanoic acid										M
212.9 > 168.9	2.370	2.391	-0.021	1.000	10592	3.94			14.5	M
D 4 13C5 PFPeA										
267.7 > 222.6	2.830	2.830	0.0	1.000	95548	27.4		54.8	242	
3 Perfluoropentanoic acid										M
262.9 > 218.8	2.830	2.866	-0.036	1.000	8584	1.50			3.5	M
D 5 13C3 PFBS										
302.0 > 79.8	2.901	2.901	0.0	1.000	56343	37.1		79.9	235	
6 Perfluorobutanesulfonic acid										RM
298.9 > 80.0	2.866	2.937	-0.071	0.988	1306	0.4288	Target=1.67		7.7	RM
298.9 > 98.9	2.901	2.901	0.0	1.000	2203		0.59(0.83-2.51)		5.9	
D 8 13C2 PFHxA										
314.8 > 269.6	3.302	3.334	-0.032	1.000	414617	39.6		79.3	2627	
7 Perfluorohexanoic acid										M
312.9 > 268.9	3.334	3.334	0.0	1.010	16460	1.42	Target=14.34		17.8	
312.9 > 118.9	3.334	3.334	0.0	1.010	891		18.47(7.17-21.51)		15.8	M
9 Perfluoroheptanoic acid										M
362.9 > 318.9	3.905	3.925	-0.020	1.000	17191	1.10	Target=2.84		7.8	
362.9 > 168.9	3.869	3.925	-0.056	0.991	5489		3.13(1.42-4.26)		25.2	M
D 10 13C4 PFHpA										
366.9 > 321.8	3.905	3.925	-0.020	1.000	665358	45.1		90.2	1306	
D 12 18O2 PFHxS										
402.9 > 83.8	3.925	3.946	-0.021	1.000	64061	33.0		69.8	420	
D 14 M2-6:2 FTS										
428.6 > 408.6	4.547	4.589	-0.042	1.000	58098	55.4		117	387	

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PF053019B71.d
Lims ID: 480-153772-N-8-A
Client ID: ML-MW-8
Sample Type: Client
Inject. Date: 31-May-2019 07:19:24 ALS Bottle#: 0 Worklist Smp#: 71
Injection Vol: 20.0 ul Dil. Factor: 5.0000
Sample Info: 200-0036138-071 8
Misc. Info.: PFAS27 053019B
Operator ID: JWM Instrument ID: LC410

Method: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PFCISO_10MRM_28.m
Limit Group: LC_PFC_ICAL
Last Update: 05-Jun-2019 17:26:17 Calib Date: 23-May-2019 14:26:50
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\LC410\20190523-36057.b\PF052319B10.d

Column 1 : C-18 (4.60 mm) Det: F1:MRM
Process Host: CTX0323

First Level Reviewer: murrayjw Date: 05-Jun-2019 10:47:00
Ratio Calibration: CCV Sample: \\chromna\Burlington\ChromData\LC410\20190530-36138.b\PF053019B64.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
216.9 > 171.5	2.349	2.391	-0.042	1.000	9522	2.04		20.4	27.4	M
2 Perfluorobutanoic acid										M
212.9 > 168.9	2.349	2.391	-0.042	1.000	5567	3.72			1.5	M
D 4 13C5 PFPeA										
267.7 > 222.6	2.830	2.830	0.0	1.000	16989	4.80		48.0	15.8	
3 Perfluoropentanoic acid										M
262.9 > 218.8	2.795	2.866	-0.071	0.987	6498	1.28			1.1	M
D 5 13C3 PFBS										
302.0 > 79.8	2.866	2.901	-0.035	1.000	7331	4.76		51.2	32.2	
6 Perfluorobutanesulfonic acid										RMa
298.9 > 80.0	2.901	2.937	-0.036	1.012	1409	0.7111	Target=1.67		1.2	Ra
298.9 > 98.9	2.830	2.901	-0.071	0.988	416		3.39(0.83-2.51)		0.7	
46 1H,1H,2H,2H-perfluorohexanesulfoni										
327.0 > 306.7	3.175	3.302	-0.127	1.108	609	0.5832			2.9	
D 8 13C2 PFHxA										
314.8 > 269.6	3.270	3.334	-0.064	1.000	64750	6.10		61.0	230	
7 Perfluorohexanoic acid										M
312.9 > 268.9	3.270	3.334	-0.064	1.000	28921	3.20	Target=14.34		10.1	M
312.9 > 118.9	3.302	3.334	-0.032	1.010	1472		19.65(7.17-21.51)		4.9	
44 Perfluoro(2-propoxypropanoic) acid										
328.9 > 284.7	3.429	3.492	-0.063	1.000	1511	NR			1.4	
9 Perfluoroheptanoic acid										
362.9 > 318.9	3.833	3.925	-0.092	0.991	45256	3.07	Target=2.84		12.0	
362.9 > 168.9	3.833	3.925	-0.092	0.991	18418		2.46(1.42-4.26)		48.5	
D 10 13C4 PFHpA										
366.9 > 321.8	3.869	3.925	-0.056	1.000	125679	8.40		84.0	378	

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\LC410\20190606-36235.b\PF060719A24.d
Lims ID: 480-153772-M-7-A
Client ID: ML-MW-13
Sample Type: Client
Inject. Date: 07-Jun-2019 14:41:35 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 200-0036235-024 772-7
Misc. Info.: PFAS27 060719A
Operator ID: JWM Instrument ID: LC410

Method: \\chromna\Burlington\ChromData\LC410\20190606-36235.b\PFCISO_10MRM_28.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Jun-2019 17:37:41 Calib Date: 23-May-2019 14:26:50
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromna\Burlington\ChromData\LC410\20190523-36057.b\PF052319B10.d

Column 1 : C-18 (4.60 mm) Det: F1:MRM
Process Host: CTX0337

First Level Reviewer: murrayjw Date: 12-Jun-2019 15:34:33
Ratio Calibration: CCV Sample: \\chromna\Burlington\ChromData\LC410\20190606-36235.b\PF060719A17.d

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										M
212.9 > 168.9	2.287	2.349	-0.062	0.987	1010	0.4189			3.8	M
D 1 13C4 PFBA										M
216.9 > 171.5	2.318	2.349	-0.031	1.000	76787	23.5		47.1	43.3	M
D 4 13C5 PFPeA										
267.7 > 222.6	2.795	2.830	-0.035	1.000	74949	30.3		60.6	254	
6 Perfluorobutanesulfonic acid										M
298.9 > 80.0	2.866	2.901	-0.035	1.000	925	0.3791	Target=1.67		3.1	M
298.9 > 98.9	2.937	2.901	0.036	1.025	982		0.94(0.83-2.51)		3.5	M
D 5 13C3 PFBS										
302.0 > 79.8	2.866	2.901	-0.035	1.000	45144	41.9		90.2	190	
D 8 13C2 PFHxA										
314.8 > 269.6	3.270	3.302	-0.032	1.000	268061	36.1		72.2	1209	
9 Perfluoroheptanoic acid										RM
362.9 > 318.9	3.798	3.833	-0.035	0.991	1868	0.1871	Target=2.84		1.2	RM
362.9 > 168.9	3.833	3.833	0.0	1.000	1838		1.02(1.42-4.26)	OK ND	8.9	M
D 10 13C4 PFHpA										
366.9 > 321.8	3.833	3.869	-0.036	1.000	425374	40.7		81.3	1638	
11 Perfluorohexanesulfonic acid										RM
398.9 > 80.0	3.869	3.869	0.0	1.000	1337	0.4600	Target=1.34		6.3	RM
398.9 > 98.9	3.833	3.869	-0.036	0.991	605		2.21(0.67-2.01)		3.3	M
D 12 18O2 PFHxS										
402.9 > 83.8	3.869	3.925	-0.056	1.000	64963	47.2		99.8	244	
13 1H,1H,2H,2H-perfluorooctanesulfoni										M
426.6 > 406.6	4.414	4.475	-0.061	0.986	761	0.9622			6.9	M
D 14 M2-6:2 FTS										M
428.6 > 408.6	4.475	4.526	-0.051	1.000	39749	53.5		113	200	M