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November 27, 2019

George Momberger, P.E.
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York, 12233-7013

**Re: Monitoring Well Sampling Data Summary Report
Carroll Landfill, Chautauqua County, New York
Site No. 9-07-017
Work Assignment No. D007617**

Dear Mr. Momberger:

Ecology and Environment Engineering, P.C. (EEEPC) is pleased to provide the New York State Department of Environmental Conservation (NYSDEC) with this Data Summary Report for Monitoring Well Sampling at Carroll Landfill (Site Number 9-07-017) in the Town of Frewsburg, Chautauqua County, New York conducted in September 2019.

If you have any questions or comments on this submittal, please contact me at 716-684-8060.

Sincerely,



Jim Taravella, P.E.
Project Manager

**Monitoring Well Sampling Data Summary Report
Carroll Landfill
Town of Carroll, Chautauqua County, New York
Site No. 9-07-017**

List of Tables

- Table 1 – Monitoring Well Maintenance Needs, September 2019
- Table 2 – Monitoring Well Specifications and Groundwater Elevations
- Table 3 – Groundwater Sample Water Quality Measurements, September 2019
- Table 4 – Summary of Positive Analytical Results for Groundwater Samples, September 2019
- Table 5 – Historical Groundwater Sample Analytical Exceedance Summary

List of Figures

- Figure 1 – Site Map
- Figure 2 – Groundwater Elevation Contours

List of Appendices

- Appendix A – Well Sampling Logs
- Appendix B – Data Usability Summary Report
- Appendix C – Laboratory Data Report (electronic submittal only)

1 Introduction

Groundwater sampling to monitor existing site groundwater conditions was conducted by Ecology and Environment Engineering, P.C. (EEEPC) on behalf of the New York State Department of Environmental Conservation (NYSDEC) at Carroll Landfill in Frewsburg, New York. The objective of this sampling was to measure the concentration of chemicals present in the groundwater following the construction of a landfill cover.

1.1 Site Location and Description

The Carroll Town Landfill is a former municipal construction and demolition debris landfill and solid waste transfer station. The landfill is located at the end of an unnamed gravel road approximately 1,400 feet north of NYS Route 62 (also known as Ivory Road) just east of the village of Frewsburg, New York. The landfill occupies approximately 28 acres of a 305-acre lot, owned by the Town of Carroll. The landfill is in a rural area surrounded by inactive farmland, wooded areas, wetlands, and private homes. Conewango Creek, a Class C stream, lies to the north and west of the site and at its closest point is approximately 1,400 feet north of the landfill.

The site is located on a northwest-facing, gently sloping hillside and is composed of two roughly rectangular landfill cells. A drainage swale separates the two disposal areas and eventually drains to the northwest into a wetland area before reaching Conewango Creek.

Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 2

The Town of Carroll Public Works Garage and the Frewsburg Water District Department facility are located approximately 700 feet west of the site. The water district facility comprises a water supply well and pump station. The Public Works Garage and Water District facility are accessed via Wahlgren Road from NYS Route 62. The nearest residential properties are approximately 1,200 feet to the west and southwest, uphill from the site.

1.2 Site History

The Town of Carroll operated the site as a municipal solid waste landfill from the early 1960s to 1979. Records indicate that industrial wastes were disposed of in the landfill during the period of operation. In 1979, the landfill began operation as a waste transfer station and was limited to accepting only construction and demolition debris for disposal at the landfill (NYSDEC2009). The western landfill cell was closed in May 1980 but it is unclear when the eastern cell closed. The town reported that the site closed as a waste transfer station in 1986. In 1992, as part of the remedial investigation of the Vac Air Alloys site (Site Number 907016) in Frewsburg, it was alleged that industrial waste from Vac Air Alloys was disposed of at the landfill. Allegations included citizens' reports of having witnessed drums of waste labeled as "trichloroethene" being disposed at the landfill. Vac Air Alloys allegedly disposed of drums containing metal debris and metal turnings (NYSDEC 2009). In April 1992 NYSDEC inspected the site and found 55-gallon drums, partially buried. Subsequent sampling results indicated volatile organic compounds (VOCs) in leachate migrating from the site. This led to a listing on June 9, 1992 as a probable hazardous waste disposal site. A preliminary site assessment was completed in February 1997, which led to a Class 2 site listing in 1998 (NYSDEC 2009).

In accordance with the Record of Decision (NYSDEC 2009) for the Carroll Landfill site, contaminated groundwater will be extracted and treated for removal of contamination associated with the landfill, and an engineered soil cover will be constructed on the landfill. Between 2015 and 2017 the landfill cells were consolidated and topped with a soil cover system.

2 Scope of Work

Groundwater at existing monitoring wells at the landfill was sampled by EEEPC in September 2019. Previous sampling had occurred in October 2004, March 2005, August 2008, August 2010, November 2012 (EEEPC 2012), and September 2014.

In September 2019, groundwater samples were collected from 12 of 19 existing monitoring wells (see Figure 1). Two of the wells could not be sampled due to previous damage to the wells. Seven of wells could not be sampled due to inaccessibility. Because of the proximity of a drinking water supply well to the landfill, drinking water analytical methods were used for VOC and Target Analyte List (TAL) metals analysis. Groundwater monitoring well samples were also collected to analyze for the emerging contaminants PFAS and 1,4 Dioxane. Analytical parameters and methods are listed below.

All monitoring well sampling was performed in accordance with the approved procedures in EEEPC's November 2016 Work Plan (EEEPC 2016). A summary of the work is provided below.

3 Sampling and Analysis

3.1 Groundwater Sampling Procedures and Analyses

A total of 12 of 19 existing groundwater monitoring wells were sampled between September 3 and September 5, 2019:

- Seven shallow wells (MW-102, MW-113S, MW-114S, MW-115S, MW-116S, MW-117S, and MW-118S);
- Two intermediate wells (MW-102I, and MW-117I); and
- Three deep wells (MW-109D, MW-117D and MW-13 [Sentinel Well]).

Two wells (MW-101 and MW-103) could not be sampled because prior damage of the well casings precluded sampling these wells. Other well maintenance needs that did not affect the ability to sample the wells were recorded at the time of sampling and are summarized in Table 1.

All 12 groundwater monitoring well samples were analyzed by TestAmerica Laboratories of Amherst, New York, for the following parameters:

- VOCs in drinking water: analyzed by United States Environmental Protection Agency (EPA) Method 524.2 (gas chromatography [GC] and mass spectrometry [MS]);
- Target Analyte List metals: analyzed by EPA Methods 200.7 Rev 4.4 (inductively coupled plasma [ICP] – Atomic Emission Spectroscopy) and 200.8 (ICP-MS);
- Mercury by EPA Method 245.1 (cold vapor atomic absorption);
- PFAS by EPA Method 537 Modified (Fluorinated Alkyl Substances); and
- 1,4-Dioxane by SW846 “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,” Third Edition, November 1986 and its updates, Method 8270D SIM ID (GC/MS SIM / Isotope Dilution [ID]).

Prior to sampling, the static water level and depth of each well were measured (see Table 2). Each monitoring well was purged prior to sampling. The wells were purged with a centrifugal pump and low-flow controller at rates of approximately 0.05 to 3.8 liters per minute. Pumping continued until the well went dry or a minimum of three well volumes was purged and water quality parameters stabilized. During purging, water quality parameters including pH, temperature, conductivity, oxidation-reduction potential, and turbidity were measured using a Myron 6P multi-parameter water quality meter and LaMotte 2020 turbidity meter (see Table 3). Two of the wells were purged dry in less than three well volumes and were sampled with a bailer within 24 hours of the completion of purging after sufficient recharge of the well occurred. The remaining ten wells were purged of three well volumes and water quality parameters stabilized during purging. Well sampling logs are provided in Appendix A.

Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 4

3.2 Quality Assurance/Quality Control (QA/QC) Samples

QA/QC samples, including field duplicates, trip blanks, field blanks, and additional volume for matrix spike/ matrix spike duplicate (MS/MSD) analysis were collected for groundwater samples in accordance with the standard EEEPC Quality Assurance Project Plan (QAPP) for NYSDEC projects (EEEPC 2011). Based on quality control review of the data, appropriate data qualifiers were applied and are included with the analytical results summary (see Table 4).

Duplicate samples provide insight into the homogeneity of a sample matrix and establish a degree of confidence that the sample represents site conditions. A groundwater duplicate sample was collected from monitoring well MW-112S. A review of the duplicate sample results is provided in the Data Usability Summary Report (DUSR) provided in Appendix B. Where the relative percent difference between the original and duplicate sample results exceeded data review guidelines, “J” flags were added to indicate that the results are estimated. This was true for aluminum, iron, and lead and there were no significant impacts on data usability associated with the field duplicate sample results.

A trip blank (TB090319) was collected for VOCs analysis to establish that the transport of sample vials to and from the field did not result in the contamination of the samples from external sources. The trip blank consisted of laboratory vials containing deionized water for groundwater and was transported to and from the field with sample delivery. Trip blank results are discussed in the DUSR in Appendix B. Chloromethane was detected in the trip blank and the associated sample results at similar concentration in groundwater samples MW-102I, MW-113S, MW-116S, and MW-117I were flagged “U” as not detected.

Equipment rinsate blanks (RB090319, RB090419, and RB090519) were collected for PFAS analysis to identify possible sources of cross-contamination associated with the reuse of decontaminated equipment. The rinsate blank was collected in the field and therefore may also be used to assess ambient conditions that may potentially affect the sample quality. The rinsate blank samples were not collected for 1,4-dioxane or metals analysis; therefore, cross-contamination associated with the reuse of decontaminated equipment could not be determined. No analytes were detected in the rinsate blanks and no data qualification was necessary.

3.3 Data Review

All laboratory deliverables were reviewed in accordance with appropriate method and general reporting requirements from the NYSDEC Analytical Services Protocol (ASP). The data were qualified following guidelines in EPA Region 2’s data validation standard operating procedures (EPA 2016a). The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits;
- Laboratory blanks;
- Matrix spike/matrix spike duplicate samples;

Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 5

- Laboratory control samples;
- Field duplicates;
- Sample result verification; and
- Method-specific QC samples.

A DUSR was prepared for the entire sample delivery group by EEEPC's project chemist. Deviations from acceptable QC specifications are discussed in the DUSR. Original laboratory reports are provided in Appendix C (electronic submittal only). Qualifiers were added to the data to indicate potential concerns with data usability and these qualifiers were transferred to the data summary tables. There were no major concerns resulting in significant impacts on data usability. There were minor concerns resulting in qualification of sample results in addition to those related to field QC samples discussed in Section 3.2. Some PFAS positive results were qualified as estimated and flagged with a "J" based on laboratory QC results of the isotope dilution recovery. Non-detect results associated with these issues were flagged "UJ" as non-detect with an estimated reporting limit. Several metals positive results were qualified as non-detect and flagged "U" based on laboratory blank sample result detections.

3.4 Decontamination and Investigation-derived Waste

Pumps and equipment were decontaminated using a laboratory-grade detergent wash, potable water rinse, 5% nitric acid solution rinse, and DI water rinse before sampling at each location. Investigation-derived waste (IDW) generated during this investigation included decontamination wastes, groundwater from monitoring well purging, disposable polyethylene tubing and bailers, and spent personal protective equipment (nitrile gloves). Decontamination water and groundwater generated from monitoring well purging and sampling was field-screened for organic vapors with a photoionization detector and visually inspected to determine whether the water was potentially contaminated. No organic vapors or unusual odors/colors were detected and no obvious signs of significant contamination were observed, so these waste waters were discharged to the ground surface at the landfill. All personal protective equipment and disposable polyethylene tubing and bailers were disposed of as non-regulated solid waste by the Frewsburg Water Department at its facility.

4 Results

4.1 Groundwater Flow Direction

Groundwater elevation contour maps were created for the shallow and intermediate zones using water levels measured from 12 monitoring wells at the site between September 3 and 5, 2019 (see Table 2 and Figure 2). Water levels could not be measured in two damaged wells (MW-101 and MW-103). Figure 2 represent groundwater flow conditions at the time of sampling.

The direction of shallow groundwater flow is generally to the north toward Conewango Creek (see Figure 2). There is possibly some variation in the local direction and magnitude of the shallow groundwater gradient at the east and west sides of the site, which is likely due to variation in the overburden material at the site. Shallow overburden material at the site consists of lacustrine sandy silt and silty clay to a depth of approximately 20 feet (NYSDEC 2009).

Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 6

Variation in silt and clay content and horizontal layering of overburden can cause localized variation in groundwater flow. However, because the groundwater elevation in wells MW-101, MW-103, MW-109S, MW-110S, and MW-116S could not be measured, the interpretation of the gradient in the central region and in the southeast corner of the site is made with less certainty. Near the north end of the site, the groundwater flow direction appears to be towards the north/northwest.

Groundwater elevation contours were not drawn for intermediate groundwater because there are too few data to depict the gradient. However, a comparison of the groundwater elevations at intermediate wells MW-117I (1253.78 feet) and MW-102I (1253.17 feet) indicates that there is at least a component of flow to the north in this zone, from MW-117I to MW-102I.

Groundwater elevation contours were not drawn for deep groundwater because there are too few wells to depict the gradient. However, a comparison of the groundwater elevations at deep wells MW-117D (1253.58 feet) and MW-13 (1251.58 feet) indicates that there is at least a component of flow to the west-northwest in this zone, from MW-117D toward MW-13.

4.2 Analytical Results

Groundwater analytical results are summarized in Table 4. For ease of review, these tables include only analytes that were detected in at least one sample. Analytes that were not detected in any sample are included in the laboratory report in Appendix C. Analytical results for the groundwater samples were compared with NYSDEC Class GA groundwater standards and guidance values (NYSDEC 1998). Compounds exceeding NYSDEC criteria during at least one of the sampling rounds between October 2004 and September 2019 are presented on Table 5. In addition, PFAS results were also compared to the EPA's Drinking Water Health Advisories (EPA 2016b) and the 1,4-dioxane screening criteria is represented by the New York State Drinking Water Quality Council's recommendation to the Department of Health, presented on Table 4.

Consistent with previous sampling events, both of the wells that were purged dry during the sampling event and three additional wells exhibited elevated turbidity values (i.e., above 50 NTU) that may have resulted in higher total (unfiltered) metals concentrations than low-turbidity samples.

Eighteen metals for which samples were analyzed were detected in at least one well. Iron concentrations exceeded screening criteria in a total of 10 monitoring wells, including 8 shallow wells (MW-102, MW-112S, MW-113S, MW-114S, MW-115S, MW-116S, MW-117S, and MW-118S), 1 intermediate well (MW-102I), and 1 deep well (MW-13).

Manganese concentrations exceeded screening criteria in a total of 6 monitoring wells, including 5 shallow wells (MW-113S, MW-114S, MW-115S, MW-116S, and MW-117S), and 1 intermediate well (MW-102I). Iron and manganese concentrations exceeding screening criteria were also detected during previous sampling rounds (see Table 5). Iron concentrations were found to exceed criteria in all wells existing during at least one previous sampling round, and manganese concentrations were found to exceed screening criteria during previous sampling rounds in 11 wells (see Table 5).

Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 7

Lead concentrations exceeding screening criteria were detected in two shallow monitoring wells (MW-114S and MW-116S). Lead concentrations exceeding screening criteria were also detected during previous sampling rounds in seven wells (see Table 5).

Barium was detected at a concentration above the screening level criteria in one shallow well (MW-115S). Barium concentrations exceeding screening criteria were also detected during previous sampling rounds in two wells (see Table 5).

Eight of the 58 VOCs analyzed were detected in at least one well. Only one VOC, Cis-1,2-Dichloroethylene, was present at concentrations that exceeded the screening criteria (5.1 micrograms per liter [$\mu\text{g}/\text{L}$] in MW-102).

No other spatial patterns concerning VOC or metals concentrations were apparent.

5 References

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Carroll Landfill Monitoring Well Sampling Data Summary Report

November 27, 2019

Page 8

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TABLES

Table 1 Monitoring Well Maintenance Needs, September 2019
Carroll Landfill, Frezburg, New York

Well ID	Heaved/ Broken Pad	Bent Casing	Sediment Buildup In Well	Accessible	Able To Sample	Notes
MW-13	--	--	--	Yes	Yes	
MW-101	--	--	Unknown	Yes	No	Rock obstructing inner casing - must be replaced
MW-102	--	--	--	Yes	Yes	
MW-102I	--	--	--	Yes	Yes	
MW-103	--	--	--	Yes	No	Well shot up/destroyed; no inner casing left - must be replaced
MW-104	--	--	--	--	--	
MW-105S	--	--	--	--	--	
MW-106S	--	--	--	--	--	
MW-107I	--	--	--	--	--	
MW-107S	--	--	--	--	--	
MW-108I	--	--	--	--	--	
MW-108S	--	--	--	--	--	
MW-109D	--	--	Unknown	No	No	
MW-109I	--	--	Unknown	No	No	Inaccessible due to thick brush - must be cleared/mowed
MW-109S	--	--	Unknown	No	No	
MW-110I	--	--	Unknown	No	No	Decommissioned
MW-110S	--	--	Unknown	No	No	Inaccessible due to thick brush - must be cleared/mowed
MW-111I	--	--	Unknown	No	No	
MW-111S	--	--	Unknown	No	No	Inaccessible due to water hazard - need a bridge to access or an alternate cleared path
MW-112S	--	--	--	Yes	Yes	
MW-113S	--	--	--	Yes	Yes	
MW-114S	--	--	--	Yes	Yes	
MW-115S	--	--	--	Yes	Yes	
MW-116S	--	--	--	Yes	Yes	
MW-117D	--	--	--	Yes	Yes	
MW-117I	--	--	--	Yes	Yes	
MW-117S	--	--	--	Yes	Yes	

Table 2 Monitoring Well Specifications and Groundwater Elevations
Carroll Landfill, Frewsburg, New York

Monitoring Well ID	Ground Elevation (feet AMSL)	Top of PVC Casing Elevation (feet AMSL)	Reported Well Depth (feet BTOC)	Well Depth Measured 2010		Well Depth Measured 2012		Well Depth Measured 2014		Well Depth Measured 2019		Screen Interval (feet AMSL)	Ground Water Elevation (feet AMSL)				
				(feet BTOC)	(feet BTOC)		Oct-2004	Mar-2005	Aug-2010	Nov-2012	Sep-2014						
Shallow																	
MW-101	1259.1	1261.24	17.8	NM	NM	NM	NM	1243.44 - 1253.44	1254.72	1257.26	NM	NM	NM	NM	NM	NM	
MW-102	1254.6	1256.58	32.0	32.2	NM	32.2	32.2	1224.56 - 1234.56	1245.82	1249.63	1254.78	NM	1256.16	1253.28			
MW-103	1250.8	1253.21	34.2	36.3	30.8	30.8	NM	1219.01 - 1229.01	1246.93	1250.33	1253.11	1251.71	1252.17	NM			
MW-104	1252.4	1254.61	21.6	21.8	21.6	21.5	D	1233.01 - 1243.01	1249.15	1249.97	1247.46	1249.04	1249.03	D			
MW-105S	1252.6	1254.97	20.0	19.9	19.8	19.3	D	1234.97 - 1244.97	1250.41	1251.17	1249.46	1249.53	1249.53	D			
MW-106S	1252.7	1255.14	22.5	22.7	24.6	22.6	D	1232.64 - 1242.64	1249.54	1251.12	1249.48	1249.73	1249.90	D			
MW-107S	1252.4	1254.56	22.4	22.6	22.5	22.5	D	1232.16 - 1242.16	1249.75	1249.05	1249.84	1249.58	1249.57	D			
MW-108S	1255.1	1257.68	22.6	22.7	22.7	22.7	D	1235.08 - 1245.08	1251.28	1252.45	1252.30	1252.36	1253.17	D			
MW-109S	1255.2	1257.52	22.9	23.1	23.0	23.1	NM	1234.62 - 1244.62	1245.84	1249.80	1254.17	1253.17	1256.10	NM			
MW-110S	1249.7	1253.16	22.5	22.5	22.7	22.7	NM	1230.66 - 1240.66	1247.85	1249.98	1248.02	1249.21	1247.42	NM			
MW-111S	1251.4	1253.66	21.9	19.8	18.9	18.1	NM	1231.76 - 1241.76	1248.86	1249.53	1248.52	1249.06	1249.02	NM			
MW-112S	1250.6	1253.45		PTI	PTI	PTI	PTI	22.7		PTI	PTI	PTI	PTI	PTI	PTI	1250.18	
MW-113S	1251.6	1254.55		PTI	PTI	PTI	PTI	22.4		PTI	PTI	PTI	PTI	PTI	PTI	1250.44	
MW-114S	1252.2	1255.17		PTI	PTI	PTI	PTI	20.0		PTI	PTI	PTI	PTI	PTI	PTI	1250.08	
MW-115S	1254.7	1257.85		PTI	PTI	PTI	PTI	22.8		PTI	PTI	PTI	PTI	PTI	PTI	1252.26	
MW-116S	1258.2	1260.57		PTI	PTI	PTI	PTI	22.7		PTI	PTI	PTI	PTI	PTI	PTI	1253.72	
MW-117S	1258.3	1260.65		PTI	PTI	PTI	PTI	22.5		PTI	PTI	PTI	PTI	PTI	PTI	1253.68	
MW-118S	1251.3	1254.14		PTI	PTI	PTI	PTI	22.7		PTI	PTI	PTI	PTI	PTI	PTI	1249.92	
Intermediate																	
MW-102I	1254.9	1257.47	41.1	43.8	45.5	45.5	45.4	1216.37 - 1226.37	1245.74	1249.56	1254.99	1253.64	1256.38	1253.17			
MW-107I	1252.5	1254.87	45.2	44.6	44.6	44.6	D	1209.67 - 1219.67	1249.17	1251.37	1249.76	1250.02	1249.22	D			
MW-108I	1255.1	1257.59	47.2	47.3	47.3	47.3	D	1210.39 - 1220.39	1248.79	1251.31	1251.55	1252.23	1253.60	D			
MW-109I	1254.9	1257.25	43.8	NM	NM	NM	NM	1213.45 - 1223.45	1245.91	1249.56	1254.98	NM	NM	NM			
MW-110I	1249.8	1252.03	44.0	44.0	42.9	44.5	D	1208.03 - 1218.03	1246.59	1249.14	1248.09	1249.16	1248.25	D			
MW-111I	1251.3	1253.71	48.1	46.3	43.0	43.0	NM	1205.61 - 1215.61	1248.11	1250.31	1248.89	1248.96	1249.28	NM			
MW-117I	1258.3	1260.70		PTI	PTI	PTI	PTI	47.7		PTI	PTI	PTI	PTI	PTI	PTI	1253.78	
Deep																	
MW-109D	1255.0	1257.31	71.1	73.2	73.6	73.2	NM	1186.21 - 1196.21	1246.03	1249.56	1254.98	1253.61	1256.40				
MW-117D	1258.3	1261.12		PTI	PTI	PTI	PTI	75.2		PTI	PTI	PTI	PTI	PTI	PTI	1253.58	
Other																	
MW-13	1260.0	1262.50		71.0	70.9	70.8	72.2					1253.66	1252.18	1255.01	1251.58		
Test well #12	1260.0	1262.00		NM	NM	NM	NM					1249.46	NM	1262.00	NM		

Key:

AMSL - above mean sea level
 NM - not measured
 BTOC - below top of casing
 PTI - prior to installation
 D - decommissioned

Table 3 **Groundwater Sample Water Quality Measurements, September 2019**
Carroll Landfill, Freewsburg, New York

Sample ID	Sample Date	Initial Water							Comments
		Well Depth (feet BTOC)	Depth (feet BTOC)	pH (s.u.)	Temperature (°C)	ORP (millivolts)	Conductivity (µS/cm)	Turbidity (NTU)	
MW-101	NS								Rock obstructing inner casing
MW-102I	9/3/2019	45.42	4.30	7.39	15.9	67	528.3	47.3	
MW-102S	9/3/2019	32.19	3.30	6.36	13.2	150	471.9	7.21	
MW-103	NS								Well shot up/destroyed - no inner casing left
MW-109D	NS								Inaccessible due to thick brush
MW-109I	NS								
MW-109S	NS								Inaccessible due to thick brush
MW-110S	NS								
MW-111I	NS								Inaccessible - no bridge access over creek
MW-111S	NS								
MW-112S	9/5/2019	22.70	3.27	7.91	14.1	-	337.2	15.1	
MW-113S	9/5/2019	22.35	4.11	7.16	13.4	-	731.1	39	
MW-114S	9/5/2019	19.96	5.09	7.96	17.2	-	356.2	>1000	Purged dry with pump, sampled after recharge.
MW-115S	9/5/2019	22.75	5.59	7.61	17.5	-130	657.6	92	
MW-116S	9/5/2019	22.70	6.85	7.32	11.8	-85	865.1	>1000	
MW-117D	9/4/2019	75.15	7.54	7.82	8.4	-	358.1	1.5	Purged with Typhoon pump, sampled with stainless steel bailer
MW-117I	9/4/2019	47.70	6.92	11.85	10.1	-	711.2	29.8	
MW-117S	9/4/2019	22.45	6.97	7.00	12.6	-	838.1	143.2	
MW-118S	9/4/2019	22.71	4.22	8.13	10.8	-	260.1	>1000	Purged dry, sampled with bailer after recharge on 9/5/2019.
MW-13 (Sentinel well)	9/4/2019	72.20	10.92	7.72	19.8	188	483.3	39	

Key:

°C = degrees Celsius

BTOC = below top of casing

MS/MSD = matrix spike/matrix spike duplicate

µS/cm = microSiemens per centimeter

NM = not measured

NS = not sampled

NTU = nephelometric turbidity units

PID = photo-ionization detector

ppm = parts per million

s.u. = standard units

*Decommissioned wells include MW-104, -105S, -106S, -107I, -107S, -108I, -108S, -110I

Table 4 Summary of Positive Analytical Results for Groundwater Samples
Carroll Landfill, Frewsberg, New York

Analyte	Screening Criteria ⁽¹⁾	Note	Location ID:	MW-102	MW-102I	MW-112S	MW-112S
			Sample Name:	Sep-19	Sep-19	Sep-19	FD
	Screen Interval:		20 - 30 ft	29 - 39 ft	0 - 0 ft	0 - 0 ft	
	Date:		09/03/19	09/03/19	09/05/19	09/05/19	09/05/19
Metals by Method E200.7 Rev 4.4 (µg/L)							
Aluminum	N/A		230	2500	1000 J	620 J	
Barium	1000	G	93	130	170	180	
Beryllium	3	G	< 0.30 U	< 0.30 U	< 0.30 U	< 0.30 U	
Calcium	N/A		76100	84800	35600	36800	
Chromium, Total	50		< 1.0 U	3.2 J	1.4 J	< 1.0 U	
Cobalt	N/A		< 0.63 U	1.1 J	< 0.63 U	< 0.63 U	
Copper	200		4.1 J	13	< 1.6 U	< 1.6 U	
Iron	300		350	3400	1600 J	1000 J	
Magnesium	35000	G	16000	19700	8600	8800	
Manganese	300		260	650	270	280	
Nickel	100		< 1.3 U	5.7 J	< 1.3 U	< 1.3 U	
Potassium	N/A		< 100 U	2000	2100	1900	
Sodium	20000		< 320 U	4200	15400	16000	
Vanadium	N/A		< 1.5 U	5.1	2.2 J	1.9 J	
Zinc	2000		< 1.5 U	< 1.5 U	< 1.5 U	< 1.5 U	
Metals by Method E200.8 (µg/L)							
Arsenic	25		< 0.27 U	< 0.27 U	4.2	4.1	
Lead	25		2.2	2.6	0.30 J	0.17 J	
Thallium	0.5	G	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	
Volatile Organics by Method E524.2 (µg/L)							
Acetone	50	G	1.3 J	< 1.0 U	2.1 J	1.9 J	
Carbon Disulfide	60	G	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	
Cis-1,2-Dichloroethylene	5	POC	5.1	3.8	< 0.12 U	< 0.12 U	
Diethyl Ether (Ethyl Ether)	N/A		< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	
Tert-Butyl Alcohol	N/A		< 2.5 U	< 2.5 U	2.7 J	< 2.5 U	
Toluene	5	POC	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	
Trichloroethylene (TCE)	5	POC	0.89	1.7	< 0.18 U	< 0.18 U	
Vinyl Chloride	2		0.49 J	< 0.18 U	< 0.18 U	< 0.18 U	
Perfluorinated Alkyl Acids by EPA Method 537 (ng/L)							
N-Ethyl-N-(heptadecafluoroctyl)sulphonyl glycine	N/A		< 1.3 U	< 1.3 U	< 1.3 U	< 1.3 U	
Perfluorobutanesulfonic acid (PFBS)	N/A		< 0.41 U	< 0.42 U	12	13	
Perfluorobutanoic Acid	N/A		< 0.85 U	< 0.85 U	5.7	6.3	
Perfluorodecanoic acid (PFDA)	N/A		< 0.65 U	< 0.66 U	< 0.66 U	< 0.63 U	
Perfluorododecanoic acid (PFDoA)	N/A		< 0.50 U	< 0.50 U	< 0.50 U	< 0.48 U	
Perfluoroheptanoic acid (PFHpA)	N/A		< 0.77 U	< 0.78 U	< 0.78 U	< 0.74 U	
Perfluorohexanesulfonic acid (PFHxS)	N/A		< 0.68 U	< 0.68 U	< 0.68 U	< 0.65 U	
Perfluorohexanoic acid (PFHxA)	N/A		< 0.64 U	< 0.65 U	< 0.65 U	0.92 J	
Perflurononanoic acid (PFNA)	N/A		< 0.23 U	< 0.23 U	< 0.23 U	< 0.22 U	
Perfluooctanesulfonic acid (PFOS)	70		< 0.52 U	< 0.52 U	2.2	2.3	
Perfluooctanoic acid (PFOA)	70		< 0.69 U	0.71 J	0.88 J	0.96 J	
Perfluoropentanoic Acid (PFPeA)	N/A		< 0.53 U	< 0.54 U	0.72 J	1.0 J	
Semi Volatile Organic Compounds by EPA Method 8270D SIM (ug/L)							
1,4-Dioxane (P-Dioxane)	1	see note 2	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. The 1,4-dioxane screening criteria is represented by the New York State Drinking Water Quality Council's recommendation to the Department of Health to adopt the maximum contaminant level of 1 part per billion (ppb).

G = Guidance value (no standard available)

N/A = Not regulated/no available criteria

POC = Principal Organic Contaminant standard of 5 µg/L applies.

Sum = Standard or guidance value applies to the sum of the analyte group.

Other

µg/L = Micrograms per liter

ng/L = Nanograms per liter

"-FD" denotes field duplicate sample

Bold values denote positive hits.

Exceeds groundwater standard.

Exceeds groundwater guidance value.

Table 4 Summary of Positive Analytical Results for Groundwater Samples
Carroll Landfill, Frewsberg, New York

Analyte	Location ID:		MW-113S	MW-114S	MW-115S	MW-116S
	Sample Name:	Sep-19 0 - 0 ft				
	Screen Interval:	09/05/19	09/05/19	09/05/19	09/05/19	09/05/19
Screening Criteria ⁽¹⁾	Note					
Metals by Method E200.7 Rev 4.4 (µg/L)						
Aluminum	N/A		1400	35800	3500	49700
Barium	1000		580	420	1100	560
Beryllium	3	G	< 0.30 U	1.7 J	< 0.30 U	2.1
Calcium	N/A		90600	81900	80300	183000
Chromium, Total	50		1.2 J	45	4.8	62
Cobalt	N/A		0.63 J	31	1.8 J	34
Copper	200		< 1.6 U	41	5.0 J	100
Iron	300		5100	71800	11700	119000
Magnesium	35000	G	26200	31400	25200	60800
Manganese	300		440	1500	340	3800
Nickel	100		1.8 J	68	4.8 J	80
Potassium	N/A		2300	10600	3500	13200
Sodium	20000		20500	12300	16000	5600
Vanadium	N/A		2.1 J	57	6.3	78
Zinc	2000		< 1.5 U	150	< 1.5 U	270
Metals by Method E200.8 (µg/L)						
Arsenic	25		20.7	51.8	24.4	41.7
Lead	25		0.39 J	25.8	3.0	26.5
Thallium	0.5	G	< 0.019 U	0.32	< 0.019 U	0.35
Volatile Organics by Method E524.2 (µg/L)						
Acetone	50	G	< 1.0 U	1.9 J	2.1 J	3.0 J
Carbon Disulfide	60	G	< 0.15 U	< 0.15 U	< 0.15 U	0.31 J
Cis-1,2-Dichloroethylene	5	POC	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U
Diethyl Ether (Ethyl Ether)	N/A		0.21 J	< 0.12 U	0.66	< 0.12 U
Tert-Butyl Alcohol	N/A		< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U
Toluene	5	POC	< 0.10 U	< 0.10 U	< 0.10 U	0.11 J
Trichloroethylene (TCE)	5	POC	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Vinyl Chloride	2		< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U
Perfluorinated Alkyl Acids by EPA Method 537 (ng/L)						
N-Ethyl-N-(heptadecafluoroctyl)sulphonyl glycine	N/A		< 1.3 U	< 1.3 U	< 1.3 U	< 1.4 U
Perfluorobutanesulfonic acid (PFBS)	N/A		< 0.47 U	0.49 J	0.89 J	< 0.44 U
Perfluorobutanoic Acid	N/A		< 0.96 U	1.3 J	3.3	< 0.91 U
Perfluorodecanoic acid (PFDA)	N/A		< 0.74 U	< 0.66 U	< 0.69 U	< 0.70 U
Perfluorododecanoic acid (PFDoA)	N/A		< 0.57 U	< 0.51 U	< 0.52 U	< 0.53 U
Perfluoroheptanoic acid (PFHpA)	N/A		< 0.88 U	< 0.78 U	3.0	< 0.82 U
Perfluorohexanesulfonic acid (PFHxS)	N/A		< 0.77 U	< 0.69 U	1.1 J	< 0.72 U
Perfluorohexanoic acid (PFHxA)	N/A		< 0.73 U	< 0.65 U	4.2	< 0.69 U
Perflurononanoic acid (PFNA)	N/A		< 0.26 U	< 0.23 U	< 0.24 U	< 0.24 U
Perfluooctanesulfonic acid (PFOS)	70		1.9	4.4	< 0.54 U	< 0.55 U
Perfluooctanoic acid (PFOA)	70		< 0.78 U	< 0.70 U	13	< 0.73 U
Perfluoropentanoic Acid (PFPeA)	N/A		< 0.61 U	< 0.54 U	4.0	< 0.57 U
Semi Volatile Organic Compounds by EPA Method 8270D SIM (ug/L)						
1,4-Dioxane (P-Dioxane)	1	see note 2	0.13 J	< 0.10 U	0.27	< 0.10 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. The 1,4-dioxane screening criteria is represented by the New York State Drinking Water Quality Council's recommendation to the Department of Health to adopt the maximum contaminant level of 1 part per billion (ppb).

G = Guidance value (no standard available)

N/A = Not regulated/no available criteria

POC = Principal Organic Contaminant standard of 5 µg/L applies.

Sum = Standard or guidance value applies to the sum of the analyte group.

Other

µg/L = Micrograms per liter

ng/L = Nanograms per liter

"-FD" denotes field duplicate sample

Bold values denote positive hits.

Exceeds groundwater standard.

Exceeds groundwater guidance value.

Table 4 Summary of Positive Analytical Results for Groundwater Samples
Carroll Landfill, Frewsberg, New York

Analyte	Screening Criteria ⁽¹⁾	Note	Location ID:	MW-117D	MW-117I	MW-117S	MW-118S
			Sample Name:	Sep-19 0 - 0 ft			
		Date:	09/04/19	09/04/19	09/04/19	09/05/19	
Metals by Method E200.7 Rev 4.4 (µg/L)							
Aluminum	N/A		60 U	360	4800	12400	
Barium	1000	G	110	330	550	300	
Beryllium	3	G	< 0.30 U	< 0.30 U	< 0.30 U	0.57 J	
Calcium	N/A		49100	75000	121000	35300	
Chromium, Total	50		< 1.0 U	< 1.0 U	5.1	13	
Cobalt	N/A		< 0.63 U	< 0.63 U	2.5 J	4.9	
Copper	200		< 1.6 U	3.2 J	5.8 J	9.2 J	
Iron	300		100	220	11000	13200	
Magnesium	35000	G	12600	17000	38900	10200	
Manganese	300		270	8.9	340	200	
Nickel	100		< 1.3 U	< 1.3 U	5.6 J	12	
Potassium	N/A		< 100 U	2800	3200	6400	
Sodium	20000		4600	3800	8800	15100	
Vanadium	N/A		< 1.5 U	1.9 J	7.8	22	
Zinc	2000		< 1.5 U	< 1.5 U	22	25	
Metals by Method E200.8 (µg/L)							
Arsenic	25		1.7	1.8	11.5	18.0	
Lead	25		< 0.17 U	1.1	1.8	3.6	
Thallium	0.5	G	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	
Volatile Organics by Method E524.2 (µg/L)							
Acetone	50	G	1.0 J	< 1.0 U	1.2 J	3.8 J	
Carbon Disulfide	60	G	< 0.15 U	< 0.15 U	< 0.15 U	< 0.15 U	
Cis-1,2-Dichloroethylene	5	POC	< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	
Diethyl Ether (Ethyl Ether)	N/A		< 0.12 U	< 0.12 U	< 0.12 U	< 0.12 U	
Tert-Butyl Alcohol	N/A		< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	
Toluene	5	POC	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	
Trichloroethylene (TCE)	5	POC	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	
Vinyl Chloride	2		< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	
Perfluorinated Alkyl Acids by EPA Method 537 (ng/L)							
N-Ethyl-N-(heptadecafluoroctyl)sulphonyl glycine	N/A		1.7 J	< 0.12 U	< 0.12 U	< 1.4 U	
Perfluorobutanesulfonic acid (PFBS)	N/A		5.4	< 0.40 U	0.71 J	< 0.45 U	
Perfluorobutanoic Acid	N/A		2.9 J	1.2 J	4.9	< 0.91 U	
Perfluorodecanoic acid (PFDA)	N/A		0.76 J	< 0.63 U	< 0.63 U	< 0.70 U	
Perfluorododecanoic acid (PFDoA)	N/A		0.53 J	< 0.48 U	< 0.48 U	< 0.54 UJ	
Perfluoroheptanoic acid (PFHpA)	N/A		< 0.76 U	< 0.75 U	< 0.74 U	< 0.83 U	
Perfluorohexanesulfonic acid (PFHxS)	N/A		< 0.67 U	< 0.66 U	< 0.65 U	< 0.73 U	
Perfluorohexanoic acid (PFHxA)	N/A		1.1 J	< 0.62 U	1.1 J	< 0.69 U	
Perflurononanoic acid (PFNA)	N/A		0.45 J	< 0.22 U	< 0.22 U	< 0.25 U	
Perfluooctanesulfonic acid (PFOS)	70		1.3 J	< 0.50 U	< 0.50 U	1.5 J	
Perfluooctanoic acid (PFOA)	70		2.2	< 0.66 U	0.98 J	< 0.74 U	
Perfluoropentanoic Acid (PFPeA)	N/A		1.6 J	< 0.52 U	0.89 J	< 0.57 U	
Semi Volatile Organic Compounds by EPA Method 8270D SIM (ug/L)							
1,4-Dioxane (P-Dioxane)	1	see note 2	< 0.10 U	< 0.10 U	< 0.10 U	< 0.10 U	

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. The 1,4-dioxane screening criteria is represented by the New York State Drinking Water Quality Council's recommendation to the Department of Health to adopt the maximum contaminant level of 1 part per billion (ppb).

G = Guidance value (no standard available)

N/A = Not regulated/no available criteria

POC = Principal Organic Contaminant standard of 5 µg/L applies.

Sum = Standard or guidance value applies to the sum of the analyte group.

Other

µg/L = Micrograms per liter

ng/L = Nanograms per liter

"-FD" denotes field duplicate sample

Bold values denote positive hits.

Exceeds groundwater standard.

Exceeds groundwater guidance value.

Table 4 Summary of Positive Analytical Results for Groundwater Samples
Carroll Landfill, Frewsberg, New York

Analyte	Location ID: Sample Name: Screen Interval: Date:		
	Screening Criteria ⁽¹⁾	Note	
Metals by Method E200.7 Rev 4.4 (µg/L)			
Aluminum	N/A		1400
Barium	1000		100
Beryllium	3	G	< 0.30 U
Calcium	N/A		60100
Chromium, Total	50		2.5 J
Cobalt	N/A		< 0.63 U
Copper	200		3.0 J
Iron	300		1700
Magnesium	35000	G	13000
Manganese	300		46
Nickel	100		< 1.3 U
Potassium	N/A		1700
Sodium	20000		12300
Vanadium	N/A		2.8 J
Zinc	2000		< 1.5 U
Metals by Method E200.8 (µg/L)			
Arsenic	25		< 0.27 U
Lead	25		1.3
Thallium	0.5	G	< 0.019 U
Volatile Organics by Method E524.2 (µg/L)			
Acetone	50	G	1.2 J
Carbon Disulfide	60	G	< 0.15 U
Cis-1,2-Dichloroethylene	5	POC	< 0.12 U
Diethyl Ether (Ethyl Ether)	N/A		< 0.12 U
Tert-Butyl Alcohol	N/A		< 2.5 U
Toluene	5	POC	< 0.10 U
Trichloroethylene (TCE)	5	POC	< 0.18 U
Vinyl Chloride	2		< 0.18 U
Perfluorinated Alkyl Acids by EPA Method 537 (ng/L)			
N-Ethyl-N-((heptadecafluoroctyl)sulphonyl) glycine	N/A		< 0.12 U
Perfluorobutanesulfonic acid (PFBS)	N/A		< 0.41 U
Perfluorobutanoic Acid	N/A		< 0.83 U
Perfluorodecanoic acid (PFDA)	N/A		< 0.64 U
Perfluorododecanoic acid (PFDoA)	N/A		< 0.49 U
Perfluoroheptanoic acid (PFHpA)	N/A		< 0.76 U
Perfluorohexanesulfonic acid (PFHxS)	N/A		< 0.67 U
Perfluorooxanoic acid (PFHXA)	N/A		< 0.63 U
Perfluoronanoic acid (PFNA)	N/A		< 0.22 U
Perfluooctanesulfonic acid (PFOS)	70		< 0.51 U
Perfluooctanoic acid (PFOA)	70		0.76 J
Perfluoropentanoic Acid (PFPeA)	N/A		< 0.52 U
Semi Volatile Organic Compounds by EPA Method 8270D SIM (ug/L)			
1,4-Dioxane (P-Dioxane)	1	see note 2	< 0.10 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

UJ = Not detected/estimated detection limit

Notes

1. New York State Department of Environmental Conservation, Technical and Operational Guidance Series Memorandum #1.1.1: *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*, 1998 (with updates), Class GA Groundwater Standards and Guidance Values.

2. The 1,4-dioxane screening criteria is represented by the New York State Drinking Water Quality Council's recommendation to the Department of Health to adopt the maximum contaminant level of 1 part per billion (ppb).

G = Guidance value (no standard available)

N/A = Not regulated/no available criteria

POC = Principal Organic Contaminant standard of 5 µg/L applies.

Sum = Standard or guidance value applies to the sum of the analyte group.

Other

µg/L = Micrograms per liter

ng/L = Nanograms per liter

"-FD" denotes field duplicate sample

Bold values denote positive hits.

Exceeds groundwater standard.

Exceeds groundwater guidance value.

Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date: Screening Criteria ⁽¹⁾	MW-101	MW-102						MW-103						*	
		09/03/19	10/01/04	03/08/05	08/28/08	08/17/10	11/06/12	09/09/14	09/03/19	10/12/04	03/09/05	08/18/10	08/18/10	11/08/12	09/11/14	
		*														*
Metals (µg/L)																
ARSENIC		25					0.2 J	0.4 J	0.078 U	0.27 U				2.4	2.7	1.7
BARIUM		1000					94	82	71	93				237	240	250
BERYLLIUM		3					0.3 J	2 U	0.30 U	0.30 U				0.2 U	2 U	0.30 U
CHROMIUM, TOTAL		50					0.9 U	4 U	1.0 U	1.0 U				0.9 U	1.1 J	1.0 U
COPPER		200					1.5 U	1.9 J	1.6 J	4.1 J				1.5 U	10 U	1.6 U
IRON		300		32.7	6,220	NA	23 UJ	38 J	19 U	350	1,030	NS	NA	273 UJ	220	200
LEAD		25					0.1 UJ	1.2 J	0.34 U	2.2				0.7 UJ	1 U	0.17 J
MAGNESIUM		35000					19000	13000	14300	16000				13000	16000	14800
MANGANESE		300					152 J	35	42	260				254	290	280
NICKEL		100					1.3 U	10 U	1.3 U	1.3 U				1.4 J	10 U	1.3 U
SODIUM		20000					3700 J	2500	3000	320 U				3900	4600 J	4300
THALLIUM		0.5					0.01 J	0.018 J	0.012 U	0.019 U				0.008 U	0.2 U	0.0080 U
VOCs (µg/L)																
1,2-DICHLOROETHANE		0.6					0.14 U	0.5 U	0.14 U					0.14 UJ	0.5 U	0.28 U
CHLOROETHANE		5		1 J	1 J	11	2	0.5 U	0.070 U					0.07 UJ	0.5 U	0.14 U
CIS-1,2-DICHLOROETHYLENE		5		2 J	1 J	130 D	24	0.56	3.2	5.1				0.12 UJ	0.5 U	0.24 U
DICHLORODIFLUOROMETHANE		5					0.2 J	0.5 U	0.070 U					0.21 J	0.5 U	0.14 U
TRICHLOROETHYLENE (TCE)		5		10 U	10 U	9	6.4	0.56	1.2	0.89				0.06 UJ	0.5 U	0.12 U
VINYL CHLORIDE		2		2 J	1 J	30 D	3.5	0.5 U	0.34 J	0.49 J	10 U	10 U	2	4.9 J	35 J	24

Key:

D = Compound identified at secondary dilution factor.

J = Estimated value.

NA = Not applicable.

NS = Not sampled.

U = Not detected (lab reporting limit shown).

UI = Not detected/estimated reporting limit.

µg/L = Micrograms per liter.

VOCs = Volatile organic compounds.

*Not sampled due to broken/obstructed well

**Not sampled due to inaccessibility

***Decommissioned well

Note:

1. New York State Department of Environmental Conservation,

Technical and Operational Guidance Series Memorandum #1.1.1:

Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations, 1998 (with updates), Class GA

Groundwater Standards and Guidance Values.

2. Bold values denote positive hits.

3. Shaded cells exceed the screening value.

4. In the 2012 sample for MW-105S, the metals concentrations are generally higher in the shallow groundwater monitoring well due to

Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date:	MW-104							MW-105S							
		10/14/04	03/10/05	08/28/08	08/18/10	11/08/12	09/11/14	09/03/19	10/14/04	03/10/05	08/28/08	08/19/10	11/08/12	09/10/14	09/03/19	
		Screening Criteria ⁽¹⁾								***						
Metals (µg/L)																
ARSENIC		25	53.2	24.1	NA	31	93	55.4		29.2	22.1	NA	9.6	108	7.7	
BARIUM		1000				245	430	260					349	2200	250	
BERYLLIUM		3				0.2 J	0.72 J	0.30 U					0.3 J	9.7	0.30 J	
CHROMIUM, TOTAL		50				1.5 UJ	19	6.8					8.9	310	8.5	
COPPER		200				1.5 U	16	6.2 J					5.5 J	320	8.9 J	
IRON		300	13200	37300	NA	2070 UJ	29000	11100		53400	50100	NA	9870 J	495000	11400	
LEAD		25				0.5 UJ	20	2.5					3.7	90	3.0	
MAGNESIUM		35000	R	39500	NA	12000	24000	12300					9510	175000	12100	
MANGANESE		300				240	1100	320		NA	NA	NA	1410	13000	300	
NICKEL		100				2 J	25	8.3 J					10	570	12	
SODIUM		20000	R	27100	NA	18000	19000 J	15800					11000	15000 J	11700	
THALLIUM		0.5				0.01 J	0.25	0.016 U					0.09 J	0.93	0.042 U	
VOCs (µg/L)																
1,2-DICHLOROETHANE		0.6				0.14 UJ	0.5 U	0.14 U					0.14 UJ	0.5 UJ	0.14 U	
CHLOROETHANE		5				0.07 UJ	0.5 U	0.070 U					0.07 UJ	0.5 UJ	0.070 U	
CIS-1,2-DICHLOROETHYLENE		5				1.6 J	0.62	0.63					0.12 UJ	0.5 UJ	0.12 U	
DICHLORODIFLUOROMETHANE		5				0.07 UJ	0.5 U	0.070 U					0.07 UJ	0.5 UJ	0.070 U	
TRICHLOROETHYLENE (TCE)		5				0.06 UJ	0.5 U	0.060 U					0.06 UJ	0.5 UJ	0.060 U	
VINYL CHLORIDE		2				0.22 J	0.26 J	0.059 U					0.059 UJ	0.5 UJ	0.059 U	

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D = Compound identified at secondary dilution factor.

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NA = Not applicable.

NS = Not sampled.

U = Not detected (lab reporting limit shown).

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µg/L = Micrograms per liter.

VOCs = Volatile organic compounds.

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***Decommissioned well

Note:

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2. Bold values denote positive hits.

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4. In the 2012 sample for MW-105S, the metals concentrations are generally higher in the shallow groundwater monitoring well due to

Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date:	MW-106S							MW-107S							
		10/14/04	03/10/05	08/28/08	08/19/10	11/07/12	09/11/14	09/03/19	10/12/04	03/10/05	08/28/08	08/17/10	11/07/12	09/10/14	09/03/19	
		Screening Criteria ⁽¹⁾								***						
Metals (µg/L)																
ARSENIC		25			2.2	95	6.0					7.7	30	10.5		
BARIUM		1000			328	1000	460					618	690	510		
BERYLLIUM		3			0.3 J	1.8 J	0.30 U					1.6 J	1.3 J	1.5 J		
CHROMIUM, TOTAL		50			1.9 UJ	43	2.8 J					37	26	41		
COPPER		200			1.5 U	72	3.4 J					47	44	44		
IRON		300	8440	NS	NS	1610 UJ	90000	4200		24900	679	NA	60000	44000	59300	
LEAD		25			0.9 UJ	72 J	2.8					24	41 J	18.9		
MAGNESIUM		35000			12000	63000	11100		R	37.6	NA	35000	52000	32200		
MANGANESE		300			228	4000	2300		NA	NA	NA	1470 J	2200	1300		
NICKEL		100			2.5 J	67	2.5 J					57	43	66		
SODIUM		20000			5000	5900	4700					7100 J	11000	6500		
THALLIUM		0.5			0.01 J	0.56	0.0080 U					0.2	0.42	0.15 J		
VOCs (µg/L)																
1,2-DICHLOROETHANE		0.6			0.14 UJ	0.5 U	0.14 U		2.0 J	0.6 J	1 U	0.14 U	0.44 J	0.28 U		
CHLOROETHANE		5			0.07 UJ	0.5 U	0.070 U					0.33 J	2.1	0.14 U		
CIS-1,2-DICHLOROETHYLENE		5			0.12 UJ	0.5 U	0.12 U		69.0 J	25.0 J	1	3	37	3.5		
DICHLORODIFLUOROMETHANE		5			0.07 UJ	0.5 U	0.070 U		9.0 J	3.0 J	0.8 J	0.46 J	2	0.14 U		
TRICHLOROETHYLENE (TCE)		5			0.06 UJ	0.5 U	0.060 U					0.06 U	0.5 U	0.12 U		
VINYL CHLORIDE		2			0.059 UJ	0.39 J	0.059 U		600 D	250	48 D	28	240	21		

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Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date:	MW-108S							MW-109S							
		10/14/04	03/10/05	08/28/08	08/19/10	11/06/12	09/11/14	09/03/19	03/13/04	03/09/05	08/28/08	08/19/10	11/06/12	09/09/14	09/03/19	
		Screening Criteria ⁽¹⁾								***						
Metals (µg/L)																
ARSENIC		25	12.1	28.2	NA	8.8	48	14.0					2.2	8.1	8.4	
BARIUM		1000	1230	890	NA	1380	1800	1700					145	200	300	
BERYLLIUM		3				0.2 U	1.1 J	0.30 U					0.2 J	0.61 J	0.68 J	
CHROMIUM, TOTAL		50	8.3	68.4	NA	2.1 UJ	33	5.6					3.3 UJ	14	24	
COPPER		200				2.8 J	33	5.8 J					1.8 J	13	17	
IRON		300	55100	82600	NA	18000 J	85000	23100		2,520	18400	NA	4220 J	18000	26000	
LEAD		25				2.7	24 J	3.7					1.6 U	6.2 J	7.1	
MAGNESIUM		35000				29000	41000	31100					13000	17000	19200	
MANGANESE		300	3150	2890	NA	721	2400	740		NA	NA	NA	375	2400	5200	
NICKEL		100				4.1 J	48	7.4 J					4.6 J	19	31	
SODIUM		20000				13000	8600	12200					3400	3200	3300	
THALLIUM		0.5				0.02 J	0.27	0.046 U					0.04 J	0.14 J	0.18 U	
VOCs (µg/L)																
1,2-DICHLOROETHANE		0.6				0.14 UJ	0.5 U	0.14 U					0.14 UJ	0.5 U	0.14 U	
CHLOROETHANE		5				0.07 UJ	0.5 U	0.070 U					0.07 UJ	0.5 U	0.070 U	
CIS-1,2-DICHLOROETHYLENE		5				0.12 UJ	0.5 U	0.12 U					0.12 UJ	0.5 U	0.12 U	
DICHLORODIFLUOROMETHANE		5				0.34 J	0.5 U	0.070 U					0.07 UJ	0.5 U	0.070 U	
TRICHLOROETHYLENE (TCE)		5				0.06 UJ	0.5 U	0.060 U					0.06 UJ	0.5 U	0.060 U	
VINYL CHLORIDE		2				0.32 J	0.5 U	0.32 J					0.059 UJ	0.5 U	0.059 U	

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Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date:	MW-110S							MW-111S							
		10/13/04	03/10/05	08/28/08	08/20/10	11/08/12	09/10/14	09/03/19	10/13/04	03/09/05	08/28/08	08/16/10	11/07/12	09/10/14	09/03/19	
		Screening Criteria ⁽¹⁾								**						
Metals (µg/L)																
ARSENIC	25	35.1	10.9	NA	8.1	32	10.5		30.5	NS	NA	5.7	38	11.0		
BARIUM	1000				237	890	290					568	690	430		
BERYLLIUM	3				0.2 U	4.5	0.33 J					0.6 J	2.3	1.0 J		
CHROMIUM, TOTAL	50				3.7 UJ	120	9.4					8.3	53	28		
COPPER	200				1.5 U	110	6.5 J					39 J	64	22		
IRON	300	74900	6310	NA	1110 U	176000	9900		48800	NS	NA	24000	85000	35800		
LEAD	25	26.8	2.1 B	NA	0.4 UJ	57	3.0		NA	NA	NA	29	37 J	10.4		
MAGNESIUM	35000				12000 J	71000	12700		NA	NA	NA	42000	57000	34100		
MANGANESE	300				232 J	4200	260		NA	NA	NA	1680	2200	670		
NICKEL	100				1.3 U	180	11					18	82	40		
SODIUM	20000				6000	6800 J	5800					11000	12000	10800		
THALLIUM	0.5				0.02 J	0.26	0.062 U					0.1 J	0.33	0.15 J		
VOCs (µg/L)																
1,2-DICHLOROETHANE	0.6				0.14 UJ	0.5 U	0.14 U					0.14 U	0.5 U	0.14 U		
CHLOROETHANE	5				0.07 UJ	0.5 U	0.070 U					0.07 U	0.5 U	0.070 U		
CIS-1,2-DICHLOROETHYLENE	5				0.12 UJ	0.5 U	0.12 U					0.12 U	0.5 U	0.12 U		
DICHLORODIFLUOROMETHANE	5				0.07 UJ	0.5 U	0.070 U					0.07 U	0.5 U	0.070 U		
TRICHLOROETHYLENE (TCE)	5				0.06 UJ	0.5 U	0.060 U					0.06 U	0.5 U	0.060 U		
VINYL CHLORIDE	2				0.059 UJ	0.5 U	0.059 U					0.059 U	0.5 U	0.059 U		

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Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID:	Screening Criteria ⁽¹⁾						
		MW-112S Date: 09/05/19	MW-113S 09/05/19	MW-114S 09/05/19	MW-115S 09/05/19	MW-116S 09/05/19	MW-117S 09/04/19	MW-118S 09/04/19
Metals (µg/L)								
ARSENIC	25	4.2	20.7	51.8	24.4	41.7	11.5	18.0
BARIUM	1000	180	580	420	1100	560	550	300
BERYLLIUM	3	0.30 U	0.30 U	1.7 J	0.30 U	2.1	0.30 U	0.57 J
CHROMIUM, TOTAL	50	1.4 J	1.2 J	45	4.8	62	5.1	13
COPPER	200	1.6 U	1.6 U	41	5.0 J	100	5.8 J	9.2 J
IRON	300	1600 J	5100	71800	11700	119000	11000	13200
LEAD	25	0.30 J	0.39 J	25.8	3.0	26.5	1.8	3.6
MAGNESIUM	35000	8800	26200	31400	25200	60800	38900	10200
MANGANESE	300	280	440	1500	340	3800	340	200
NICKEL	100	1.3 U	1.8 J	68	4.8 J	80	5.6 J	12
SODIUM	20000	16000	20500	12300	16000	5600	8800	15100
THALLIUM	0.5	0.019 U	0.019 U	0.32	0.019 U	0.35	0.019 U	0.019 U
VOCs (µg/L)								
1,2-DICHLOROETHANE	0.6							
CHLOROETHANE	5							
CIS-1,2-DICHLOROETHYLENE	5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
DICHLORODIFLUOROMETHANE	5							
TRICHLOROETHYLENE (TCE)	5	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
VINYL CHLORIDE	2	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U

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Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Screening Criteria ⁽¹⁾	MW-102I							MW-107I												
		Date: 10/11/04 03/09/05 08/28/08 08/17/10 11/06/12 09/09/14 09/03/19							10/12/04 03/09/05 08/28/08 08/17/10 11/07/12 09/10/14 09/03/19												

Metals (µg/L)																					
ARSENIC		25				0.3 J	0.38 J	0.20 J	0.27 U				21	19	19.1						
BARIUM		1000				103	84	77	130				298	230	220						
BERYLLIUM		3				0.4 J	2 U	0.30 U	0.30 U				0.5 J	2 U	0.30 U						
CHROMIUM, TOTAL		50				0.9 U	1.1 J	1.1 J	3.2 J				12	1.3 J	1.4 J						
COPPER		200				1.5 U	10 U	1.6 U	13				12	10 U	1.9 J						
IRON		300	3800	12200	NA	277 U	67	77	3400	12100	NS	NA	15000	1200	700						
LEAD		25				0.4 UJ	1.2 J	0.27 U	2.6				6.4	6.1 J	1.0						
MAGNESIUM		35000				18000	15000	14100	19700				14000	11000	10100						
MANGANESE		300				187 J	490	65	650	NA	NA	NA	451 J	220	200						
NICKEL		100				1.3 U	10 U	1.3 U	5.7 J				14	1.3 J	1.3 U						
SODIUM		20000				3800 J	3100	3300	4200				7700 J	7700	7000						
THALLIUM		0.5				0.02 J	0.028 J	0.011 U	0.019 U				0.09 J	0.027 J	0.025 U						
VOCs (µg/L)																					
1,2-DICHLOROETHANE		0.6				0.14 U	0.5 U	0.14 U					0.14 U	0.5 U	0.14 U						
CHLOROETHANE		5	7.0 J	5.0 J	1 U	0.07 U	0.5 U	0.070 U					0.07 U	0.5 U	0.070 U						
CIS-1,2-DICHLOROETHYLENE		5	14	6.0 J	12	2.4	0.5 U	0.12 U	3.8				0.12 U	0.5 U	0.12 U						
DICHLORODIFLUOROMETHANE		5				0.07 U	0.5 U	0.070 U					0.07 U	0.5 U	0.070 U						
TRICHLOROETHYLENE (TCE)		5	10 U	10 U	20	3.2	0.37 J	0.41 J	1.7				0.06 U	0.5 U	0.060 U						
VINYL CHLORIDE		2	5 J	3 J	0.6 J	0.059 U	0.5 U	0.059 U	0.18 U				0.059 U	0.5 U	0.059 U						

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Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Date:	MW-108I						MW-109I 09/03/19	MW-110I							
		Screening Criteria ⁽¹⁾							***	**	***					
		10/13/04	03/07/05	08/28/08	08/20/10	11/06/12	09/11/14	09/03/19	10/13/04	03/10/05	08/28/08	08/20/10	11/08/12	09/10/14	09/03/19	
Metals (µg/L)																
ARSENIC	25				4.7	4.8	5.1		87.8	23	NA	9.8	33	12.1		
BARIUM	1000				233	240	230					231	510	160		
BERYLLIUM	3				0.2 U	2 U	0.30 U		3.6	0.72	NA	0.2 U	1.8 J	0.30 U		
CHROMIUM, TOTAL	50				0.9 U	4 U	1.0 U		112	24.5	NA	3 UJ	44	4.4		
COPPER	200				1.5 U	10 U	1.6 U					1.5 U	66	7.1 J		
IRON	300	15300	1740	NA	634 U	590	140		191000	37000	NA	1670 U	69000	4200		
LEAD	25				0.4 UJ	0.18 J	0.12 J		92.4	15.7	NA	0.7 UJ	54	2.9		
MAGNESIUM	35000				13000 J	13000	13300		70900	26300	NA	11000 J	52000	9400		
MANGANESE	300				262 J	250	260		3720	880	NA	175 J	3000	310		
NICKEL	100				1.3 U	10 U	1.3 U					2 J	65	3.9 J		
SODIUM	20000				5400	5400	5000					5700	6900 J	5200		
THALLIUM	0.5				0.02 J	0.092 J	0.011 U		14	4.5 U	NA	0.02 J	0.27	0.024 U		
VOCs (µg/L)																
1,2-DICHLOROETHANE	0.6				0.14 UJ	0.5 U	0.14 U					0.14 UJ	0.5 U	0.14 U		
CHLOROETHANE	5				0.07 UJ	0.44 J	0.070 U					0.07 UJ	0.5 U	0.070 U		
CIS-1,2-DICHLOROETHYLENE	5				0.12 UJ	0.5 U	0.12 U					0.12 UJ	0.5 U	0.12 U		
DICHLORODIFLUOROMETHANE	5				0.07 UJ	0.5 U	0.070 U					0.07 UJ	0.5 U	0.070 U		
TRICHLOROETHYLENE (TCE)	5				0.06 UJ	0.5 U	0.060 U					0.06 UJ	0.5 U	0.060 U		
VINYL CHLORIDE	2				0.059 UJ	0.5 U	0.059 U					0.059 UJ	0.5 U	0.059 U		

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Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Screening Criteria ⁽¹⁾	MW-111I						MW-117I **	MW-109D								
		Date:	10/13/04	03/09/05	08/28/08	08/16/10	11/07/12	09/10/14	09/03/19	09/04/19	10/12/04	03/08/05	08/28/08	08/19/10	11/06/12	09/09/14	09/03/19
		Metals ($\mu\text{g/L}$)															
ARSENIC		25				17	19	18.0		1.8				0.3 J	0.42 J	0.078 U	
BARIUM		1000				258	260 J	280		330				137	130	130	
BERYLLIUM		3				0.2 U	2 U	0.30 U		0.30 U				0.2 U	2 U	0.30 U	
CHROMIUM, TOTAL		50				0.9 U	1.6 J	1.0 U		1.0 U				0.9 U	4 U	1.0 U	
COPPER		200				1.5 U	10 U	1.6 U		3.2 J				1.5 U	10 U	1.6 U	
IRON		300	20700	NS	NA	1060 U	300	300		220	8440	29900	NA	453 UJ	190	250	
LEAD		25				4.5	8.6 J	40.7		1.1				0.4 UJ	1 U	0.22 U	
MAGNESIUM		35000				13000	13000 J	13100		17000				13000	13000	12800	
MANGANESE		300				227	210 J	210		8.9				55	87	100	
NICKEL		100				1.3 U	10 U	1.3 U		1.3 U				1.3 U	10 U	1.3 U	
SODIUM		20000				10000	11000 J	10100		3800				3900	4000	4100	
THALLIUM		0.5				0.01 J	0.019 J	0.020 U		0.019 U				0.008 U	0.012 J	0.0098 U	
VOCs ($\mu\text{g/L}$)																	
1,2-DICHLOROETHANE		0.6				0.14 U	0.5 U	0.14 U						0.14 UJ	0.5 U	0.14 U	
CHLOROETHANE		5				0.07 U	0.5 U	0.070 U						0.07 UJ	0.5 U	0.070 U	
CIS-1,2-DICHLOROETHYLENE		5				0.12 U	0.5 U	0.12 U		0.12 U	10 U	1 J	9	1.4 J	0.5 U	0.12 U	
DICHLORODIFLUOROMETHANE		5				0.07 U	0.5 U	0.070 U						0.07 UJ	0.5 U	0.070 U	
TRICHLOROETHYLENE (TCE)		5				0.06 U	0.5 U	0.060 U		0.18 U				0.73 J	0.5 U	0.060 U	
VINYL CHLORIDE		2				0.059 U	0.5 U	0.059 U		0.18 U	1.0 J	108	0.4 J	0.059 UJ	0.5 U	0.059 U	

Key:

D = Compound identified at secondary dilution factor.

J = Estimated value.

NA = Not applicable.

NS = Not sampled.

U = Not detected (lab reporting limit shown).

UI = Not detected/estimated reporting limit.

$\mu\text{g/L}$ = Micrograms per liter.

VOCs = Volatile organic compounds.

*Not sampled due to broken/obstructed well

**Not sampled due to inaccessibility

***Decommissioned well

Note:

1. New York State Department of Environmental Conservation,

Technical and Operational Guidance Series Memorandum #1.1.1:

Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations, 1998 (with updates), Class GA

Groundwater Standards and Guidance Values.

2. Bold values denote positive hits.

3. Shaded cells exceed the screening value.

4. In the 2012 sample for MW-105S, the metals concentrations are generally higher in the shallow groundwater monitoring well due to

Table 5 Historical Groundwater Sample Analytical Exceedance Summary
Carroll Landfill, Frewsburg, New York

Analyte	Well ID: Screening Criteria ⁽¹⁾	MW-117D	MW-13						SUPPLY WELL #5	
		Date: 09/04/19	09/03/04	10/14/05	08/28/08	08/19/10	11/05/12	09/11/14	09/04/19	08/16/10
Metals (µg/L)										
ARSENIC	25	1.7				0.6 J	0.55 J	0.16 J	0.27 U	0.6 J
BARIUM	1000	110				93	75	73	100	68
BERYLLIUM	3	0.30 U				0.2 U	2 U	0.30 U	0.30 U	0.2 U
CHROMIUM, TOTAL	50	1.0 U				1.1 UJ	1.3 J	1.0 U	2.5 J	0.9 U
COPPER	200	1.6 U				1.5 U	10 U	1.8 J	3.0 J	1.5 UJ
IRON	300	100	NA	979	NA	501 UJ	49 J	310	1700	21 UJ
LEAD	25	0.17 U				0.6 UJ	1 U	0.47 J	1.3	0.8 UJ
MAGNESIUM	35000	12600				12000	9900	10200	13000	9270
MANGANESE	300	270				16 U	3 U	7.5 U	46	10 U
NICKEL	100	1.3 U				1.6 J	10 U	1.3 U	1.3 U	1.3 U
SODIUM	20000	4600				11000	8600	6800	12300	7800
THALLIUM	0.5	0.019 U				0.008 U	0.017 J	0.0080 U	0.019 U	0.01 J
VOCs (µg/L)										
1,2-DICHLOROETHANE	0.6					0.14 UJ	0.5 U	0.14 U		0.14 U
CHLOROETHANE	5					0.07 UJ	0.5 U	0.070 U		0.07 U
CIS-1,2-DICHLOROETHYLENE	5	0.12 U				0.12 UJ	0.5 U	0.12 U	0.12 U	0.12 U
DICHLORODIFLUOROMETHANE	5					0.07 UJ	0.5 U	0.070 U		0.07 U
TRICHLOROETHYLENE (TCE)	5	0.18 U				0.06 UJ	0.5 U	0.060 U	0.18 U	0.06 U
VINYL CHLORIDE	2	0.18 U				0.059 UJ	0.5 U	0.059 U	0.18 U	0.059 U

Key:

D = Compound identified at secondary dilution factor.

J = Estimated value.

NA = Not applicable.

NS = Not sampled.

U = Not detected (lab reporting limit shown).

UI = Not detected/estimated reporting limit.

µg/L = Micrograms per liter.

VOCs = Volatile organic compounds.

*Not sampled due to broken/obstructed well

**Not sampled due to inaccessibility

***Decommissioned well

Note:

1. New York State Department of Environmental Conservation,

Technical and Operational Guidance Series Memorandum #1.1.1:

Ambient Water Quality Standards and Guidance Values and

Groundwater Effluent Limitations, 1998 (with updates), Class GA

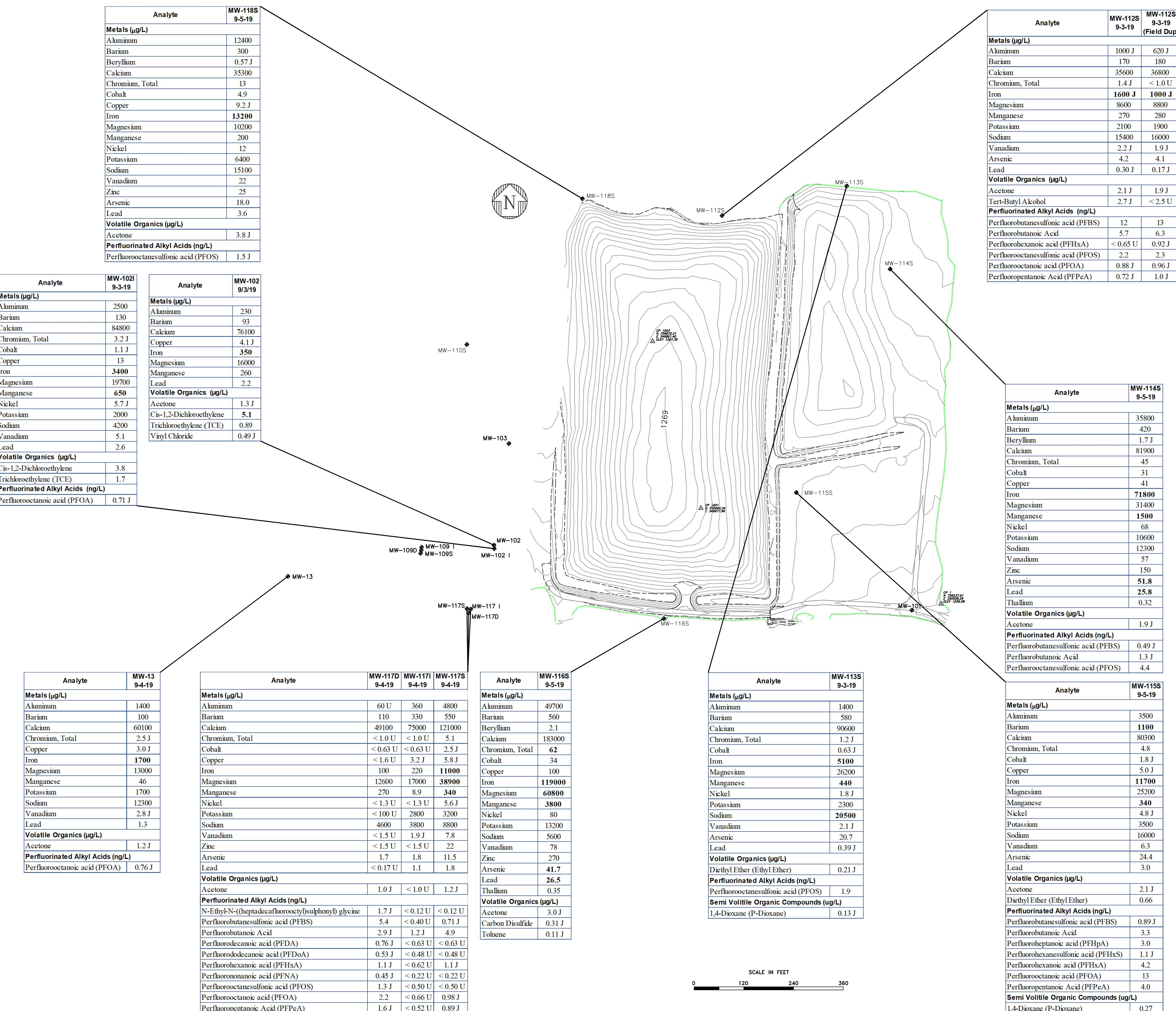
Groundwater Standards and Guidance Values.

2. Bold values denote positive hits.

3. Shaded cells exceed the screening value.

4. In the 2012 sample for MW-105S, the metals concentrations are generally higher in the shallow groundwater monitoring well due to

FIGURES

**SCREENING CRITERIA**

Analyte	Screening Criteria
Metals (µg/L)	
Aluminum	N/A
Barium	1000
Beryllium	3
Calcium	N/A
Chromium, Total	50
Cobalt	N/A
Copper	200
Iron	300
Magnesium	35000
Manganese	300
Nickel	100
Potassium	20000
Sodium	N/A
Vanadium	2000
Zinc	25
Arsenic	25
Lead	25
Thallium	0.5
Volatile Organics (µg/L)	
Acetone	50
Carbon Disulfide	60
Cis-1,2-Dichloroethylene	5
Cis-1,3-Dichloropropene	0.4
Cymene	5
Dibromochloromethane	50
Dibromoethane	5
Dichlorodifluoromethane	5
Dichlorofluoromethane	5
Tert-Butyl Ether (Ethyl Ether)	N/A
Tert-Butyl Alcohol	N/A
Toluene	5
Trichloroethylene (TCE)	5
Vinyl Chloride	2
Perfluorinated Alkyl Acids (ng/L)	
N-Ethyl-N-((heptadecafluoroctyl)sulphonyl) glycine	N/A
Perfluorobutanesulfonic acid (PFBS)	N/A
Perfluorobutanoic Acid	N/A
Perfluorodecanoic acid (PFDA)	N/A
Perfluorododecanoic acid (PFDoA)	N/A
Perfluorohexanoic acid (PFHxA)	N/A
Perfluorooctanesulfonic acid (PFHS)	N/A
Perfluorooctanoic acid (PFOA)	N/A
Perfluorooctanesulfonic acid (PFOS)	70
Perfluorooctanoic acid (PFOA)	70

LEGEND

- MW-110S ♦ EXISTING SHALLOW MONITORING WELL LOCATION
- △ EXISTING SURVEY CONTROL POINT
- ~~~~~ EXISTING TREE LINE
- 1269— EXISTING TOPOGRAPHIC CONTOUR
- NS NOT SAMPLED
- 1253.28 GROUNDWATER ELEVATION (SEE NOTE 2)
- 1250 ——— GROUNDWATER CONTOUR (DASHED WHERE INFERRED)

NOTES

1. THE BACKGROUND SURVEY SHOWN WAS PROVIDED BY FISHER ASSOCIATES (CARROLL LANDFILL FINAL.DWG DATED NOVEMBER 2017)
1. GROUNDWATER ELEVATIONS COLLECTED ON 9/3/19, 9/4/19, AND 9/5/19.



FIGURE 2

GROUNDWATER ELEVATION CONTOURS OF SHALLOW GROUNDWATER WELLS (SEPTEMBER 2019)
TOWN OF CARROLL LANDFILL
FREWSBURG, NEW YORK

APPENDICES

Contents:

A – Well Sampling Logs

B - Data Usability Summary Report (DUSR)

C – TestAmerica Laboratories Analytical Report J67030-1 (provided electronically)

APPENDIX A

Well Sampling Logs



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International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086

Tel: 716/684-8060 Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Carroll Card #11
EEPC Project No.: 10C3074.0033.06

Well ID: MW112S
Date: 9-5-19

Initial Depth to Water: 3.27 feet TOIC

Start Time: 10:20

Total Well Depth: 22.70 feet TOIC

End Time: 10:56

Depth to Pump: 26.78 feet TOIC

Bailer Pump

Initial Pump Rate: 250 Lpm / gpm mls per min

Pump Type: Typhoon

adjusted to: _____ at _____ minutes

Well Diameter: 2 inches

adjusted to: _____ at _____ minutes

1x Well Volume: 3.17 gallons x 2

Sample ID: CTL-mw1129-090519

Duplicate?

Repe Samp ID: CTLmwi125-090519 Q

Sample Time: 10:56

MS/MSD?

Analyses: Methods: Comments:

VOCs CIP

SVOCS SW846

PCBs Drink. Wtr.

Metals

PFOA^s Sampler(s): *CD CP*



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International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086
Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Carroll Landfill
EEEPC Project No.: 1003074-0033.06

Well ID: MW 1135
Date: 9-5-19

Initial Depth to Water: 4.11 feet TOIC

Start Time: 11:45

Total Well Depth: 22.35 feet TOIC

End Time: 12:45

Depth to Pump: 20.35 feet TOIC

Bailer Pump

Initial Pump Rate: 200 Lpm / gpm *mls per min*

Pump Type: Typhoon

adjusted to: _____ at _____ minutes

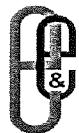
Well Diameter: 5" inches

adjusted to: at minutes

1x Well Volume: _____ gallons

Sample ID: CTLMW1135-090519 Duplicate? Dupe Samp ID: _____
Sample Time: 12:45 MS/MSD?

Analyses:	Methods:	Comments:
<input checked="" type="checkbox"/> VOCs	<input type="checkbox"/> CLP	_____
<input type="checkbox"/> SVOCs	<input type="checkbox"/> SW846	_____
<input type="checkbox"/> PCBs	<input type="checkbox"/> Drink. Wtr.	_____
<input checked="" type="checkbox"/> Metals	<input type="checkbox"/> _____	_____
<input checked="" type="checkbox"/> PFOS	<input type="checkbox"/> _____	Sampler(s): <u>LN CP</u>



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Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Cannal Landfill
EEEPC Project No.: 10C 3078-0033.06

Well ID: MW1145

Date: 9-5-19

Initial Depth to Water: 5.09 feet TOIC

Start Time: 13:00

Total Well Depth: 19.96 feet TOIC

End Time: 14:20

Depth to Pump: 18.96 feet TOIC

Bailer Pump

Initial Pump Rate: 200 Lpm / gpm ml/min

Pump Type: Typhoon

adjusted to: _____ at _____ minutes

Well Diameter: 2" inches

adjusted to: _____ at _____ minutes

1x Well Volume: _____ gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
13:00	0	8.00	16.1	-	355.5	-	71000	5.19
13:25	1.0	7.79	15.9	-	351.2	-	71000	6.20
13:30	2.0	7.96	16.7	-	358.9	-	71000	7.15
13:35	3.0	7.77	16.1	-	359.7	-	71000	10.25
13:40	4.0	7.75	16.5	✓	352.6	-	71000	12.59
13:45	5.0	7.76	16.0	-	350.1	-	71000	14
13:50	6.0	7.75	17.1	-	358.1	-	71000	16
13:55	7.0	7.96	17.2	-	356.2	-	71000	18.97
Dry								
Sample								



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Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: CTL / Frewsburg, NY
EEEPC Project No.: _____

Well ID: MW-1155

Date: 9-5-2019

Initial Depth to Water: 5.59 feet TOIC

Start Time: 1445

Total Well Depth: 22.75 feet TOIC

End Time: 1530

Depth to Pump: 21.75 feet TOIC

Bailer Pump

Initial Pump Rate: 0.40 (Lpm) gpm

Pump Type: BLADDER

adjusted to: 0.07 at 10 minutes

Well Diameter: 2 inches

adjusted to: _____ at _____ minutes

1x Well Volume: 2.8 gallons $\times 3 = 8.4$ gal.

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm/mS/cm)	DQ (mg/L)	Turbidity (NTU)	Water Level (feet)
1450	0.75	7.77	18.5	-145	657.4		1000	8.38
1500	1.00	7.60	18.2	-134	669.7		101	7.22
1505	1.10	7.53	18.1	-129	664.0		91	6.89
1510	1.25	7.50	18.1	-132	662.2		91	6.71
1515	1.35	7.57	18.3	-134	663.9		86	6.61
1520	1.50	7.62	18.1	-133	659.3		95	6.53
1525	1.65	7.61	17.2	-133	657.4		95	6.50
1530	1.75	7.61	17.5	-130	657.6		92	6.49



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Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Carroll Landfill

Well ID: MW1175

EEPC Project No.: LOC 3074, 0033.06

Date: 9-4-19

Initial Depth to Water: 6.97 feet TOIC

Start Time: 12:35

Total Well Depth: 22.45 feet TOIC

End Time: 13:48

Depth to Pump: 20.45 feet TOIC

Bailer Pump

Initial Pump Rate: 200 Lpm / gpm m³pm

Pump Type: QEP

adjusted to: _____ at _____ minutes

Well Diameter: 2 inches

adjusted to: _____ at _____ minutes

1x Well Volume: 2.5 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
12:35	200mls	7.35	10.5	-	869.7	-	>1000	6.97
12:40	1.2	7.00	11.3	-	887.4	-	>1000	6.95
12:45	2.2	6.98	11.4	-	883.1	-	>1000	6.95
12:50	3.2	6.85	11.8	-	871.7	-	283	6.95
12:55	4.2	6.94	11.7	-	862.1	-	185	6.95
13:00	5.2	6.98	11.6	-	858.1	-	174	6.95
13:05	6.2	6.98	11.5	-	850.1	-	135	6.95
13:10	7.2	7.01	11.3	-	844.4	-	152	6.95
13:15	8.2	7.01	11.4	-	840.2	-	128.1	6.95
13:20	9.2	7.01	11.0	-	841.6	-	106.2	6.95
13:25	10.2	7.09	11.7	-	837.2	-	93.9	6.95
13:30	11.2	7.00	11.6	-	838.1	-	109.7	6.95
13:35	12.2	7.00	12.5	-	840.0	-	142.6	6.95
13:40	13.2	7.00	12.5	-	837.0	-	144.2	6.95
13:45	14.2	7.00	12.6	-	838.1	-	143.2	6.95
Final Sample Data:								
	7.00	12.6	-	838.1	-	143.2	6.95	

Sample ID: CTCMW1175-090419 Duplicate? Dupe Samp ID: _____

Sample Time: 13:28 MS/MSD?

Analyses: Methods: Comments: Turbidity will not come down past 140 NTUs

VOCs CLP Sample well

SVOCs SW846

PCBs Drink. Wtr.

Metals

PFOA's, 1,4 Dioxane Sampler(s): LL



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Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Carroll Town Landfill / Frewsburg, NY Well ID: MW-102 I
EEEPC Project No.: 101 3074 0033.06 Date: 9-3-201

Initial Depth to Water: 4.30 feet TOIC

Start Time: 15⁵⁰

Date: 9-3-2019

Total Well Depth: 45.42 feet TOIC

End Time: 17⁰⁰

Depth to Pump: 44.42 feet TOIC

Bailer Pump

Initial Pump Rate: 0, 20 Lpm/ gpm

Pump Type: BLADDER

adjusted to: _____ at _____ minutes

Well Diameter: 2 inches

adjusted to: _____ at _____ minutes

1x Well Volume: 10.55 gallons x 3 =

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
16 ⁰⁰	0.5	6.95	17.0	92	532.0		120	4.30
16 ¹⁰	0.75	7.20	17.4	68	534.0		108.0	4.31
16 ²⁰	1.00	7.35	17.0	83	528.1		85.6	4.32
16 ³⁰	1.25	7.41	16.6	77	527.1		72.4	4.33
16 ⁴⁰	1.50	7.41	16.9	71	529.0		57.7	4.35
16 ⁵⁰	1.75	7.39	16.0	64	528.3		56.0	4.35
16 ⁵⁵	1.85	7.38	16.1	64	532.6		46.0	4.35
17 ⁰⁰	2.00	7.39	15.9	67	528.3		47.3	4.35

Sample ID: CTL - MW/02I-0903/9 Duplicate? Dupe Samp ID: _____

Sample Time: 17⁰⁰ MS/MSD?

Analyses: Methods: Comments: *GW has slight gray tint;*

VOCs CLP no odor, no green

SVOCs SW846

PCBs Drink. Wtr.

Metals _____

1,4 Dioxane _____ Sampler(s): CHUCK PORRECA / LARRY ROEDL



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Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: Carroll Landfill

Well ID: MW117 I

EEEPC Project No.: 10C3074.0033.06

Date: 9-4-19

Initial Depth to Water: 6.92 feet TOIC

Start Time: 11:01

Total Well Depth: 47.70 feet TOIC

End Time: 12:21

Depth to Pump: 45.70 feet TOIC

Bailer Pump

Initial Pump Rate: 300 Lpm / gpm mbpm

Pump Type: QED Bladder pump

adjusted to: _____ at _____ minutes

Well Diameter: 2 inches

adjusted to: _____ at _____ minutes

1x Well Volume: 6.6 gallons

Time	Purge Volume (gallons/liters)	pH (s.u.)	Temp. (°C/°F)	ORP (mV)	Conductivity (µS/cm, mS/cm)	DO (mg/L)	Turbidity (NTU)	Water Level (feet)
11:01	6	11.99	12.1	-	1835	-	65.70	6.99
11:06	1300	12.00	12.5	-	1565	-	70.1	6.99
11:11	3.0	12.07	12.3	-	1371	-	77.2	6.99
11:16	4.5	12.05	12.0	-	1232	-	89.6	6.99
11:21	6.0	12.08	11.9	-	1155	-	109.6	6.99
11:26	7.5	12.0	11.0	-	874.2	-	173	6.99
11:31	9.0	11.84	10.4	-	762.4	-	174	6.99
11:36	10.5	11.97	10.4	-	860.1	-	59.4	6.99
11:41	12.0	11.96	10.2	-	752.1	-	58.2	6.99
11:46	13.5	11.97	10.1	-	801.2	-	56.1	6.99
11:51	15.0	11.94	10.0	-	799.1	-	55.2	6.99
11:56	16.5	11.90	10.2	-	695.1	-	48.1	6.99
12:01	18.0	11.91	10.0	-	700.0	-	48.9	6.99
12:06	19.5	11.90	9.9	-	705.1	-	47.7	6.99
12:11	21.0	11.85	10.0	-	704.7	10.8	35.5	6.99
12:16	22.5	11.84	10.1	-	704.7	12.0	30.1	6.99
12:21	24.0	11.85	10.1	-	711.2	-	29.8	6.99
Final Sample Data:		11.85	10.1	-	711.2	-	28.8	6.99

Sample ID: CTLMW117 I - 090419 Duplicate? Dupe Samp ID: _____

Sample Time: 12:21 MS/MSD?

Analyses: Methods: Comments: _____

VOCs CLP _____

SVOCs SW846 _____

PCBs Drink. Wtr. _____

Metals _____

PFOA's, _____ Sampler(s): L. Rorke

1,4 Dioxane

La
E. E18



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International Specialists in the Environment

BUFFALO CORPORATE CENTER 368 Pleasant View Drive, Lancaster, New York 14086

Tel: 716/684-8060, Fax: 716/684-0844

WELL PURGE & SAMPLE RECORD

Site Name/Location: CTL / Frewsburg, NY

Well ID: MW-13

EEPC Project No.: 10C3074.0033.06

Date: 9-4-19

Initial Depth to Water: 10.92 feet TOIC

Start Time: 10:15

Total Well Depth: 72.20 feet TOIC

End Time: 12⁰⁰

Initial Pump Rate: 0.03 lpm / gpm

Baller Pump

adjusted to: 0.05 at 75 minutes

Well Diameter: 2 inches

adjusted to: at minutes

$$1x \text{ Well Volume: } 10 \text{ gallons} \times 3 = 30 \text{ gal}$$

Sample ID: 42 CTL - MW 13-090418 Duplicate? Dupe Samp ID:

Sample Time: 12⁰⁰ MS/MSD?

Dupe Samp ID:

Analyses: Methods:

Comments: Water slightly murky - light brown/gray tint, more so @ beginning of pumping.

VOCs

SVOCs SW846

PCBs Drink Wtr

Metals

PFOA/S

Sampler(s): C P J R

1,4 DIOXANE

APPENDIX B

Data Usability Summary Report

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the master QAPP. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

ProjectID	Lab Work Order	Laboratory Report
10C3074.0033.06	480-158837-1	Eurofins Test America, Buffalo Eurofins Test America, Burlington

Table 1 Sample Summary Tables

Work Order	Matrix	Sample ID	Lab ID	Sample Date	QC	ID Corrections
480-158837-1	WG	CTLMW102-090319	480-158837-2	09/03/2019 14:30	MS/MSD	MW-102- SEP19
480-158837-1	WG	CTLMW102I-090319	480-158837-3	09/03/2019 12:21		MW-102I- SEP19
480-158837-1	WG	CTLMW112S-090519	480-158837-9	09/05/2019 10:56	MS/MSD	MW-112S- SEP19
480-158837-1	WG	CTLMW112S-090519Q	480-158837-10	09/05/2019 10:56		MW-112S- SEP19-FD
480-158837-1	WG	CTLMW113S-090519	480-158837-8	09/05/2019 12:45		MW-113S- SEP19
480-158837-1	WG	CTLMW114S-090519	480-158837-12	09/05/2019 14:20		MW-114S- SEP19
480-158837-1	WG	CTLMW115S-090519	480-158837-13	09/05/2019 15:30		MW-115S- SEP19
480-158837-1	WG	CTLMW116S-090519	480-158837-14	09/05/2019 17:40		MW-116S- SEP19
480-158837-1	WG	CTLMW117D-090419	480-158837-7	09/04/2019 14:50		MW-117D- SEP19
480-158837-1	WG	CTLMW117I-090419	480-158837-5	09/04/2019 12:21		MW-117I- SEP19
480-158837-1	WG	CTLMW117S-090419	480-158837-6	09/04/2019 13:48		MW-117S- SEP19
480-158837-1	WG	CTLMW118S-090519	480-158837-11	09/05/2019 12:30		MW-118S- SEP19
480-158837-1	WG	CTLMW13-090419	480-158837-4	09/04/2019 12:00		MW-13- SEP19
480-158837-1	WH	RB090319	480-158837-15	09/03/2019 11:20		
480-158837-1	WH	RB090419	480-158837-17	09/04/2019 17:00		
480-158837-1	WH	RB090519	480-158837-16	09/04/2019 17:50		
480-158837-1	WQ	TB09032019	480-158837-1	09/03/2019 11:30		

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	Number of Samples	Sample Type
480-158837-1	WG	E524.2	Volatile Organic Compounds by GC/MS	13	N/FD
480-158837-1	WG	8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	13	N/FD
480-158837-1	WG	200.7 Rev. 4.4	Metals (ICP)	13	N/FD
480-158837-1	WG	200.8	Metals (ICP/MS)	13	N/FD
480-158837-1	WG	245.1	Mercury (CVAA)	13	N/FD
480-158837-1	WG	E537-LL	Fluorinated Alkyl Substances	13	N/FD
480-158837-1	WQ	E524.2	Volatile Organic Compounds by GC/MS	1	TB
480-158837-1	WH	E537-LL	Fluorinated Alkyl Substances	3	RB

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes. The sample names were changed as noted in the ID Correction column in Table 1 to maintain consistency in nomenclature.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs waters only Equipment Blank - 1/ set of samples per day?	Yes. 1 Field Duplicate per 12 samples 1 MS/MSD per 12 samples 3 Equipment Blank 1 Trip Blank/Cooler
Case narrative present and complete?	Yes
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provided summaries of results outside QC criteria.

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- IDA Recoveries Outside Limits (Table 3A)
- MS/MSD Outside Limits (Table 4)
- LCS Outside Limits (Table 5)
- Re-analysis Results (Table 6)
- Field Duplicate Results (Table 7)

[Go to Tables List](#)

Volatile Organics Compounds by GC/MS	
Description	Notes and Qualifiers
Any compounds present in method, trip and field blanks (see Table 2)?	Yes.

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Volatile Organics Compounds by GC/MS	
Description	Notes and Qualifiers
For samples, if results are <5 times the blank or < 10 times blank for common laboratory contaminants then "U" flag data. Qualification also applies to TICs.	Chloromethane was detected in trip blank sample TB09032019. The associated four sample results were qualified U as non-detect. Sample results are reported at PQLs.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Semi-volatile samples should be reanalyzed if more than one base-neutral and/or more than one acid phase compound for semi-volatiles is out. Matrix effects should be established.	Yes.
Is laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	No. Dichlorodifluoromethane was recovered above the acceptance criteria in MSD for sample CTLMW102-090319. The result was non-detect in the parent sample; therefore, no qualification was required.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	No. Methylene Chloride was recovered above the acceptance criteria for LCS sample 480491376/6. All the associated sample results were non-detect; therefore, no qualification was required.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is continuing calibration for target compounds <30 %D?	Yes.
Were any samples re-analyzed or diluted (see Table 6)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
For TICs are there any system related compounds that should not be reported?	N/A
Do field duplicate results show good precision for all compounds (see Table 7)?	No. The precision in sample pairs for tert-butyl alcohol was above the RPD requirement. Tert-Butyl Alcohol was detected in one sample not the other. The sample detection exhibited a slight elevated result from the PQL value. No qualification was made.

1,4-Dioxane by GC/MS – Method 8270D-SIM-ID	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field	No.

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

1,4-Dioxane by GC/MS – Method 8270D-SIM-ID	
Description	Notes and Qualifiers
blanks (see Table 2)?	
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	N/A.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Yes.
Is %D in the continuing calibration for target compounds less than method specifications?	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Metals by ICP – ICP/MS and Mercury by CVAA	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	Yes.
For samples, if results are <5 times the blank then "U" flag data.	E200.7: Zinc was detected in method blank 4804912541A. Six sample results were less than 5x the blank detection and were qualified U as non-detect. Sample results are reported at PQLs. All other sample results were greater than 5x the blank detection. No qualification was made. Potassium was detected in several CCBs. Two sample results were less than 5x the detections of CCBs 480-492108/18 and 480-492108/25 and were qualified U as non-detect. Sample results are reported at PQLs. All other sample results were greater than 5x the blank detection. No qualification

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Metals by ICP – ICP/MS and Mercury by CVAA	
Description	Notes and Qualifiers
	<p>was made.</p> <p>Sodium was detected in several CCBs. One sample result was less than 5x the detection of CCB 480-492108/18 and was qualified U as non-detect. Sample results are reported at PQLs. All other sample results were greater than 5x the blank detection. No qualification was made.</p> <p>E200.8: Arsenic was detected in method blank 4804912561A. Three sample results were less than 5x the blank detection and were qualified U as non-detect. Sample results are reported at PQLs. All other sample results were greater than 5x the blank detection. No qualification was made.</p> <p>Thallium was detected in several ICBs and CCBs. Two sample results were less than 5x the detection of CCB 480-491521/6 and were qualified U as non-detect. Sample results are reported at PQLs. All other sample results were greater than 5x the blank detection. No qualification was made.</p> <p>Antimony was detected in several CCBs. Three sample results were less than 5x the detection of CCB 480-492718/24 and were qualified U as non-detect. Sample results are reported at PQLs. All other sample results were non-detect. No qualification was made.</p>
Is laboratory QC frequency one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Are MS/MSD within QC criteria (see Table 4)? QC limits are not applicable to sample results greater than 4 times spike amount. All N flagged data for MS are flagged J as estimated.	Yes. The PDS for cadmium was recovered below the acceptance limit. The associated MS/MSD recoveries were within the acceptance criteria. No qualification was made.
Were elements recovered \leq 30%? If so, "R" flag associated NDs on Form 1's.	No.
Is LCS within QC criteria (see Table 5)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is there one serial dilution per 20 samples? Flag all data reported with an "E" as "J".	Yes.
Spot check ICS recoveries 80-120%. Contact lab if unacceptable.	Yes.
Spot check ICV 90-110%. Contact lab if unacceptable.	Yes.
Spot check CCV 90-110% or 80-120% for Hg. Contact lab if unacceptable.	The CCVs 480-492108/24 and 480-492108/36 were recovered above the control limit for selenium. The sample results associated with

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Metals by ICP – ICP/MS and Mercury by CVAA	
Description	Notes and Qualifiers
	these CCVs were non-detect. No qualification was made.
	The CCVs 480-492108/36 and 480-492108/48 were recovered above the control limit for selenium. The sample results associated with these CCVs were non-detect. No qualification was made.
Spot check ICVL/CCVL 70-130%. Contact lab if unacceptable.	Yes.
Do field duplicate results show good precision for all compounds (see Table 7)?	No. E200.7: Aluminum, iron and lead exhibited poor precision in the field duplicate pairs. The sample results were qualified J as estimated. Chromium exhibited poor precision in the field duplicate pairs. Chromium was detected in one sample not the other. The sample detection exhibited a slight elevated result from the PQL value. No qualification was made.

Fluorinated Compounds by LC/MS/MS	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank contaminants, then "U" flag data.	N/A
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are Isotope Dilution Analytes within limits? (See Table 3A).	IDA PFBA was recovered below the acceptance criteria in samples CTLMW117I-090419 and CTLMW117D-090419. The sample results were qualified J as estimated. IDA d5-NEtFOSAA was recovered above the acceptance criteria in sample CTLMW117D-090419. The associated analyte was non-detect in the sample. No qualification was made. IDA PFDoA and PFTDA were recovered below the acceptance criteria in sample CTLMW118S-090519. The sample results were qualified UJ as estimated non-detect. IDA PFTDA was recovered below the acceptance criteria in samples CTLMW114S-090519 and CTLMW116S-090519. The sample results were qualified UJ as estimated non-detect.

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Fluorinated Compounds by LC/MS/MS	
Description	Notes and Qualifiers
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Yes.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	Yes.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD?	Yes.
Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	Yes.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	No. PFHXA exhibited poor precision in the field duplicate pairs. PFHXA was detected in one sample not the other. The sample detection exhibited a slight elevated result from the PQL value. No qualification was made.

Summary of Impacts on Data Usability	
E524.2:	<ul style="list-style-type: none"> Chloromethane was detected in trip blank sample TB09032019. The associated four sample results were qualified U as non-detect.
E200.7:	<ul style="list-style-type: none"> Zinc, potassium, and sodium were detected in several blanks. The associated sample results which were less than 5x the blank detection were qualified U as non-detect. Sample results are reported at PQLs. Aluminum, iron and lead exhibited poor precision in the field duplicate pairs. The sample results were qualified J as estimated.
E200.8:	<ul style="list-style-type: none"> Arsenic, thallium, and antimony were detected in several blanks. The associated sample results which were less than 5x the blank detection were qualified U as non-detect. Sample results are reported at PQLs.
E537-LL:	<ul style="list-style-type: none"> IDA PFBA was recovered below the acceptance criteria in samples CTLMW117I-090419 and CTLMW117D-090419. The sample results were qualified J as estimated. IDA PFDoA and PFTDA were recovered below the acceptance criteria in sample CTLMW118S-090519. The sample results were qualified UJ as estimated non-detect.

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

- | |
|---|
| <ul style="list-style-type: none">• IDA PFTDA was recovered below the acceptance criteria in samples CTLMW114S-090519 and CTLMW116S-090519. The sample results were qualified UJ as estimated non-detect. |
|---|

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Table 2 - Positive Results for Blank Samples

Method	Sample ID	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
E200.7	4804912541A	MB	Zinc	0.00383	J	mg/l	0.0015	0.010
E200.8	4804912561A	MB	Arsenic	0.301	J	ug/l	0.27	1.0
E524.2	TB09032019	TB	Chloromethane	0.39	J	ug/l	0.17	0.50
E200.7	480-492108/18	CCB	Potassium	0.274	J	Mg/l	0.1	0.5
E200.7	480-492108/18	CCB	Sodium	0.840	J	mg/l	0.324	1
E200.7	480-492108/25	CCB	Potassium	0.170	J	mg/l	0.1	0.5
E200.7	480-492108/25	CCB	Sodium	0.403	J	mg/l	0.324	1
E200.7	480-492108/49	CCB	Potassium	0.173	J	mg/l	0.1	0.5
E200.7	480-492410/18	CCB	Potassium	0.152	J	mg/l	0.1	0.5
E200.8	480-491521/6	ICB	Thallium	0.0200	J	ug/l	0.0080	0.20
E200.8	480-492718/6	ICB	Thallium	0.0300	J	ug/l	0.0080	0.20
E200.8	480-492718/11	CCB	Thallium	0.0240	J	ug/l	0.0080	0.20
E200.8	480-492718/24	CCB	Thallium	0.0260	J	ug/l	0.0080	0.20
E200.8	480-492718/36	CCB	Thallium	0.0230	J	ug/l	0.0080	0.20
E200.8	480-492718/11	CCB	Antimony	0.357	J	ug/l	0.15	1.0
E200.8	480-492718/24	CCB	Antimony	0.357	J	ug/l	0.15	1.0
E200.8	480-492718/36	CCB	Antimony	0.412	J	ug/l	0.15	1.0

Table 2A - Samples Qualified for Method Blank Contamination

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qualifier	PQL	Affected Samples	Sample Flag
E200.8	4804912561A	MB	Arsenic	0.301	0.74	BJ	1.0	CTLMW102-090319	U Flag
E200.8	4804912561A	MB	Arsenic	0.301	0.58	BJ	1.0	CTLMW102I-090319	U Flag
E200.8	4804912561A	MB	Arsenic	0.301	4.2	B	1.0	CTLMW112S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	4.1	B	1.0	CTLMW112S-090519Q	None
E200.8	4804912561A	MB	Arsenic	0.301	20.7	B	1.0	CTLMW113S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	51.8	B	1.0	CTLMW114S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	24.4	B	1.0	CTLMW115S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	41.7	B	1.0	CTLMW116S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	1.7	B	1.0	CTLMW117D-090419	None
E200.8	4804912561A	MB	Arsenic	0.301	1.8	B	1.0	CTLMW117I-090419	None

Data Usability Summary Report	Project: Carroll Landfill						
Date Completed: October 25, 2019	Completed by: Eridania Marte						

Method	Lab Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qualifier	PQL	Affected Samples	Sample Flag
E200.8	4804912561A	MB	Arsenic	0.301	11.5	B	1.0	CTLMW117S-090419	None
E200.8	4804912561A	MB	Arsenic	0.301	18.0	B	1.0	CTLMW118S-090519	None
E200.8	4804912561A	MB	Arsenic	0.301	1.0	B	1.0	CTLMW13-090419	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.012	B	0.010	CTLMW102I-090319	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.0017	BJ	0.010	CTLMW112S-090519	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.0043	BJ	0.010	CTLMW113S-090519	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.15	B	0.010	CTLMW114S-090519	None
E200.7	4804912541A	MB	Zinc	0.00383	0.014	B	0.010	CTLMW115S-090519	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.27	B	0.010	CTLMW116S-090519	None
E200.7	4804912541A	MB	Zinc	0.00383	0.0038	BJ	0.010	CTLMW117I-090419	U Flag
E200.7	4804912541A	MB	Zinc	0.00383	0.022	B	0.010	CTLMW117S-090419	None
E200.7	4804912541A	MB	Zinc	0.00383	0.025	B	0.010	CTLMW118S-090519	None
E200.7	4804912541A	MB	Zinc	0.00383	0.0059	BJ	0.010	CTLMW13-090419	U Flag
E200.8	480-491521/6	ICB	Thallium	0.0200	0.033	J	0.20	CTLMW115S-090519	U Flag
E200.8	480-491521/6	ICB	Thallium	0.0200	0.020	J	0.20	CTLMW118S-090519	U Flag
E200.8	480-492718/24	CCB	Antimony	0.357	0.38	J	1.0	CTLMW112S-090519	U Flag
E200.8	480-492718/24	CCB	Antimony	0.357	0.48	J	1.0	CTLMW114S-090519	U Flag
E200.8	480-492718/24	CCB	Antimony	0.357	1.2		1.0	CTLMW118S-090519	U Flag
E200.7	480-492108/18	CCB	Potassium	0.274	1.2		0.50	CTLMW102-090319	U Flag
E200.7	480-492108/25	CCB	Potassium	0.170	1.2		0.50	CTLMW117D-090419	U Flag
E200.7	480-492108/18	CCB	Sodium	0.840	3.8		1.0	CTLMW102-090319	U Flag

Table 2B - Samples Qualified for Field Blank Contamination

Method	Field Blank	Matrix	Analyte	Blank Result	Sample Result	Lab Qual	PQL	Affected Samples	Sample Flag
E524.2	TB09032019	TB	Chloromethane	0.39	0.17	J	0.50	CTLMW102I-090319	U Flag
E524.2	TB09032019	TB	Chloromethane	0.39	0.19	J	0.50	CTLMW113S-090519	U Flag
E524.2	TB09032019	TB	Chloromethane	0.39	0.19	J	0.50	CTLMW116S-090519	U Flag
E524.2	TB09032019	TB	Chloromethane	0.39	0.23	J	0.50	CTLMW117I-090419	U Flag

Table 3 - Samples with Surrogates outside Control Limits

None.

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec. %	Low Limit	High Limit	Dilution Factor	Sample Qualifier
E537-LL	CTLMW117I-090419	N	PFBA	24	25	150	1	J Flag
E537-LL	CTLMW117D-090419	N	PFBA	14	25	150	1	J Flag
E537-LL	CTLMW117D-090419	N	d5-NEtFOSAA	300	50	150	1	None: High & ND
E537-LL	CTLMW118S-090519	N	PFDoA	43	50	150	1	UJ Flag
E537-LL	CTLMW118S-090519	N	PFTDA	29	50	150	1	UJ Flag
E537-LL	CTLMW114S-090519	N	PFTDA	46	50	150	1	UJ Flag
E537-LL	CTLMW116S-090519	N	PFTDA	44	50	150	1	UJ Flag

Table 4 - MS/MSD Recoveries and RPDs Outside Control Limits

Method	Sample ID	Sample Type	Analyte	Orig. Result	Spike Amount	Rec.	Dil. Fac.	Low Limit	High Limit	Sample Qualifier
E524.2	CTLMW102-090319	MSD	Dichlorodifluoromethane	ND	4.0	131	1	70	130	None: High & ND

Table 5 - LCS Recoveries outside Control Limits

Method	Sample ID	Analyte	Rec.	Low Limit	High Limit	Sample Qualifier
E524.2	480491376/6	Methylene Chloride	195	50	150	None: High & ND

Table 6 –Samples that were Reanalyzed

None.

Table 7 – Summary of Field Duplicate Results

Method	Analyte	Unit	Matrix	PQL	CTLMW112S-090519	CTLMW112S-090519Q	RPD	RPD Rating	Sample Qual
E524.2	Acetone	ug/l	WG	1.0	2.1	1.9	10.0%	Good	None
E200.7	Aluminum	mg/l	WG	0.060	1	0.62	46.9%	Poor	J Flag
E200.8	Arsenic	ug/l	WG	0.27	4.2	4.1	2.4%	Good	None
E200.7	Barium	mg/l	WG	0.00070	0.17	0.18	5.7%	Good	None
E200.7	Calcium	mg/l	WG	0.10	35.6	36.8	3.3%	Good	None
E200.7	Chromium, Total	mg/l	WG	0.0010	0.0014	0	NC	--	None

Data Usability Summary Report	Project: Carroll Landfill								
Date Completed: October 25, 2019	Completed by: Eridania Marte								

E200.7	Iron	mg/l	WG	0.019	1.6	1	46.2%	Poor	J Flag
E200.8	Lead	ug/l	WG	0.17	0.3	0.17	55.3%	Poor	J Flag
E200.7	Magnesium	mg/l	WG	0.043	8.6	8.8	2.3%	Good	None
E200.7	Manganese	mg/l	WG	0.00040	0.27	0.28	3.6%	Good	None
E537-LL	Perfluorobutanesulfonic Acid	ng/l	WG	0.42	12	13	8.0%	Good	None
E537-LL	Perfluorobutyric Acid (PFBA)	ng/l	WG	0.85	5.7	6.3	10.0%	Good	None
E537-LL	Perfluorohexanoic Acid (PFHXA)	ng/l	WG	0.86	0	0.92	NC	--	None
E537-LL	Perfluorooctane Sulfonic Acid	ng/l	WG	0.52	2.2	2.3	4.4%	Good	None
E537-LL	Perfluorooctanoic Acid (PFOA)	ng/l	WG	0.69	0.88	0.96	8.7%	Good	None
E537-LL	Perfluoropentanoic Acid (PFPEA)	ng/l	WG	0.54	0.72	1	32.6%	Good	None
E200.7	Potassium	mg/l	WG	0.10	2.1	1.9	10.0%	Good	None
E200.7	Sodium	mg/l	WG	0.32	15.4	16	3.8%	Good	None
E524.2	Tert-Butyl Alcohol	ug/l	WG	2.5	2.7	0	NC	--	None
E200.7	Vanadium	mg/l	WG	0.0015	0.0022	0.002	14.6%	Good	None

Acronym List and Table Key:

CCB	= continuing calibration blank
CCV	= continuing calibration verification
COC	= chain of custody
DUSR	= data usability summary report
FB	= field blank
FD	= field duplicate
GC/MS	= gas chromatography / mass spectrometry
ICS	= initial calibration standard
ICV	= initial calibration verification
LCS	= laboratory control sample
MB	= method blank
MDL	= method detection limit
µg/L	= micrograms per liter
MS	= matrix spike
MSD	= matrix spike duplicate
ng/L	= nanograms per liter
N	= normal (field) sample
NC	= not calculated

Data Usability Summary Report	Project: Carroll Landfill
Date Completed: October 25, 2019	Completed by: Eridania Marte

ND = not detected
NYSDEC = New York State Department of Environmental Conservation
PQL = practical quantitation limit
QA = quality assurance
QAPP = quality assurance project plan
QC = quality control
RPD = relative percent difference
SDG = sample delivery group
TB = trip blank
TRG = target compound
%D = percent difference
%RSD = percent relative standard deviation

APPENDIX C

Laboratory Data Report (provided separately)



Environment Testing TestAmerica

1

2

3

4

5

6

7

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9

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12

13

14

15

16



ANALYTICAL REPORT

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

Laboratory Job ID: 480-158837-1
Client Project/Site: Carroll Town Landfill Site

For:
New York State D.E.C.
625 Broadway 9th Floor
Albany, New York 12233-7258

Attn: George Momberger

Authorized for release by:
9/24/2019 9:19:18 AM

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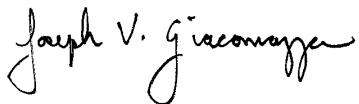
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions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

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

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

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



Joe Giacomazza
Project Management Assistant II
9/24/2019 9:19:18 AM

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11

12

13

14

15

16

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	7
Client Sample Results	14
Surrogate Summary	71
Isotope Dilution Summary	72
QC Sample Results	75
QC Association Summary	94
Lab Chronicle	100
Certification Summary	106
Method Summary	107
Sample Summary	108
Chain of Custody	109
Receipt Checklists	117

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

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

Glossary

Abbreviation

	These commonly used abbreviations may or may not be present in this report.
%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Job ID: 480-158837-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-158837-1

Comments

No additional comments.

Receipt

The samples were received on 9/6/2019 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.4° C.

GC/MS VOA

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-491376 recovered outside control limits for the following analyte: Methylene Chloride. This analyte was biased high in the LLCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: TB09032019 (480-158837-1), CTLMW102-090319 (480-158837-2), CTLMW102I-090319 (480-158837-3), CTLMW13-090419 (480-158837-4), CTLMW117I-090419 (480-158837-5), CTLMW117S-090419 (480-158837-6), CTLMW117D-090419 (480-158837-7), CTLMW113S-090519 (480-158837-8), CTLMW112S-090519 (480-158837-9), CTLMW112S-090519Q (480-158837-10), CTLMW118S-090519 (480-158837-11), CTLMW114S-090519 (480-158837-12), CTLMW115S-090519 (480-158837-13) and CTLMW116S-090519 (480-158837-14).

Method(s) 524.2: The matrix spike duplicate (MSD) recovery for analytical batch 480-491376 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following sample is impacted: CTLMW102-090319 (480-158837-2[MSD]).

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

GC/MS Semi VOA

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for sample CTLMW102-090319 (480-158837-2[MS]) has an E flag qualifier indicating the result is over the calibration range on the raw data. The actual amount is within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

Metals

Method(s) 200.7 Rev 4.4: The recovery of post spike, (480-158837-C-2-A PDS), associated with batch 480-492108, exhibited a result outside quality control limits for Total Calcium. However, the serial dilution (SD) of this sample was compliant, therefore no corrective action was necessary.

Method(s) 200.7 Rev 4.4: The continuing calibration verifications (CCV 480-492108/24 and 480-492108/36) recovered above the upper control limit for Total Selenium. The samples CTLMW102I-090319 (480-158837-3), CTLMW13-090419 (480-158837-4), CTLMW117I-090419 (480-158837-5), CTLMW117S-090419 (480-158837-6), CTLMW117D-090419 (480-158837-7) and CTLMW113S-090519 (480-158837-8) associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 200.7 Rev 4.4: The continuing calibration verifications (CCV 480-492108/36 and 480-492108/48) recovered above the upper control limit for Total Selenium. The samples CTLMW112S-090519 (480-158837-9), CTLMW112S-090519Q (480-158837-10), CTLMW118S-090519 (480-158837-11), CTLMW114S-090519 (480-158837-12), CTLMW115S-090519 (480-158837-13) and CTLMW116S-090519 (480-158837-14) associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

LCMS

Method(s) 537 (modified): The "l" qualifier means the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification of the analyte(s) has/have some degree of uncertainty. However, analyst judgement was used to

Case Narrative

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Job ID: 480-158837-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

positively identify the analyte(s).

CTLMW113S-090519 (480-158837-8), CTLMW112S-090519 (480-158837-9), CTLMW112S-090519Q (480-158837-10),
CTLMW118S-090519 (480-158837-11) and CTLMW114S-090519 (480-158837-12)

Method(s) 537 (modified): 13C4 PFBA Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: CTLMW117I-090419 (480-158837-5) and CTLMW117D-090419 (480-158837-7). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

Method(s) 537 (modified): d5-NEtFOSAA Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: CTLMW117D-090419 (480-158837-7). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (modified): 13C2 PFTeDA Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit: CTLMW114S-090519 (480-158837-12) and CTLMW116S-090519 (480-158837-14). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

Method(s) 537 (modified): 13C2 PFDoA and 13C2 PFTeDA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: CTLMW118S-090519 (480-158837-11). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

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

Organic Prep

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

Detection Summary

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: TB09032019

Lab Sample ID: 480-158837-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.39	J	0.50	0.17	ug/L	1		524.2	Total/NA

Client Sample ID: CTLMW102-090319

Lab Sample ID: 480-158837-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	5.0	1.0	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	5.1		0.50	0.12	ug/L	1		524.2	Total/NA
Trichloroethene	0.89		0.50	0.18	ug/L	1		524.2	Total/NA
Vinyl chloride	0.49	J	0.50	0.18	ug/L	1		524.2	Total/NA
Aluminum	0.23		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.093		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	76.1		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0041	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	0.35		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	16.0		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.26	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.2		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	3.8		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.74	J B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	2.2		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW102I-090319

Lab Sample ID: 480-158837-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.17	J	0.50	0.17	ug/L	1		524.2	Total/NA
cis-1,2-Dichloroethene	3.8		0.50	0.12	ug/L	1		524.2	Total/NA
Trichloroethene	1.7		0.50	0.18	ug/L	1		524.2	Total/NA
Perfluorooctanoic acid (PFOA)	0.71	J	1.7	0.69	ng/L	1		537 (modified)	Total/NA
Aluminum	2.5		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.13		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	84.8		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.0032	J	0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Cobalt	0.0011	J	0.0040	0.00063	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.013		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	3.4		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	19.7		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.65	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0057	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.0		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	4.2		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0051		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.012	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	0.58	J B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	2.6		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorooctanoic acid (PFOA)	0.76	J	1.7	0.67	ng/L	1		537 (modified)	Total/NA
Aluminum	1.4		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.10		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW13-090419 (Continued)

Lab Sample ID: 480-158837-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60.1		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.0025	J	0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0030	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	1.7		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	13.0		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.046	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.7		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	12.3		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0028	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0059	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	1.0	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	1.3		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.23	J	0.50	0.17	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	1.2	J	1.6	0.82	ng/L	1		537 (modified)	Total/NA
Aluminum	0.36		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.33		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	75.0		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0032	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	0.22		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	17.0		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.0089	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	3.8		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0019	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0038	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	1.8	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	1.1		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	4.9		1.6	0.82	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.89	J	1.6	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.6	0.62	ng/L	1		537 (modified)	Total/NA
Perfluoroctanoic acid (PFOA)	0.98	J	1.6	0.66	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.6	0.40	ng/L	1		537 (modified)	Total/NA
Aluminum	4.8		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.55		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	121		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.0051		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Cobalt	0.0025	J	0.0040	0.00063	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0058	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	11.0		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	38.9		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.34	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0056	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	3.2		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW117S-090419 (Continued)

Lab Sample ID: 480-158837-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	8.8		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0078		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.022	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	11.5	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	1.8		1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	2.9		1.7	0.83	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PPeA)	1.6	J	1.7	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	1.7	0.63	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.2		1.7	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.45	J	1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.76	J	1.7	0.64	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDa)	0.53	J	1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.4		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.3	J	1.7	0.51	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.7	J	17	1.2	ng/L	1		537 (modified)	Total/NA
Barium	0.11		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	49.1		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	0.10		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	12.6		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.27	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.2		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	4.6		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	1.7	B	1.0	0.27	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.19	J	0.50	0.17	ug/L	1		524.2	Total/NA
Ethyl ether	0.21	J	0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.13	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9	I	1.9	0.59	ng/L	1		537 (modified)	Total/NA
Aluminum	1.4		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.58		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	90.6		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.0012	J	0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Cobalt	0.00063	J	0.0040	0.00063	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	5.1		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	26.2		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.44	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0018	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.3		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	20.5		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0021	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0043	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	20.7	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	0.39	J	1.0	0.17	ug/L	1		200.8	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.0	ug/L	1		524.2	Total/NA
t-Butanol	2.7	J	10	2.5	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	5.7		1.7	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.72	J	1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.88	J	1.7	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.2	I	1.7	0.52	ng/L	1		537 (modified)	Total/NA
Aluminum	1.0		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.17		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	35.6		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.0014	J	0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	1.6		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	8.6		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.27	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	2.1		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	15.4		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0022	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0017	J B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.38	J	1.0	0.35	ug/L	1		200.8	Total/NA
Arsenic	4.2	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	0.30	J	1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	6.3		1.6	0.82	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.92	J	1.6	0.62	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.96	J	1.6	0.66	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	13		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.3	I	1.6	0.50	ng/L	1		537 (modified)	Total/NA
Aluminum	0.62		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.18		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	36.8		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	1.0		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	8.8		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.28	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	1.9		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	16.0		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.0019	J	0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Arsenic	4.1	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	0.17	J	1.0	0.17	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.8	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.5	J I	1.8	0.55	ng/L	1		537 (modified)	Total/NA
Aluminum	12.4		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.30		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Beryllium	0.00057	J	0.0020	0.00030	mg/L	1		200.7 Rev 4.4	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW118S-090519 (Continued)

Lab Sample ID: 480-158837-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35.3		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.013		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Cobalt	0.0049		0.0040	0.00063	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0092	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	13.2		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	10.2		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.20	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.012		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	6.4		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	15.1		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.022		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.025	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	1.2		1.0	0.35	ug/L	1		200.8	Total/NA
Arsenic	18.0	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	3.6		1.0	0.17	ug/L	1		200.8	Total/NA
Thallium	0.020	J	0.20	0.019	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW114S-090519

Lab Sample ID: 480-158837-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.0	ug/L	1		524.2	Total/NA
Perfluorobutanoic acid (PFBA)	1.3	J	1.7	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.49	J	1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.4	I	1.7	0.52	ng/L	1		537 (modified)	Total/NA
Aluminum	35.8		0.20	0.060	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.42		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Beryllium	0.0017	J	0.0020	0.00030	mg/L	1		200.7 Rev 4.4	Total/NA
Calcium	81.9		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium, Total	0.045		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Cobalt	0.031		0.0040	0.00063	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.041		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Iron	71.8		0.050	0.019	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	31.4		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	1.5	B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.068		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Potassium	10.6		0.50	0.10	mg/L	1		200.7 Rev 4.4	Total/NA
Sodium	12.3		1.0	0.32	mg/L	1		200.7 Rev 4.4	Total/NA
Vanadium	0.057		0.0050	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.15	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Antimony	0.48	J	1.0	0.35	ug/L	1		200.8	Total/NA
Arsenic	51.8	B	1.0	0.27	ug/L	1		200.8	Total/NA
Lead	25.8		1.0	0.17	ug/L	1		200.8	Total/NA
Thallium	0.32		0.20	0.019	ug/L	1		200.8	Total/NA

Client Sample ID: CTLMW115S-090519

Lab Sample ID: 480-158837-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.0	ug/L	1		524.2	Total/NA
Ethyl ether	0.66		0.50	0.12	ug/L	1		524.2	Total/NA
1,4-Dioxane	0.27		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	3.3		1.8	0.89	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.0		1.8	0.56	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW115S-090519 (Continued)

Lab Sample ID: 480-158837-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid (PFHxA)	4.2		1.8	0.68	ng/L	1	537 (modified)	Total/NA	
Perfluoroheptanoic acid (PFHpA)	3.0		1.8	0.81	ng/L	1	537 (modified)	Total/NA	
Perfluoroctanoic acid (PFOA)	13		1.8	0.72	ng/L	1	537 (modified)	Total/NA	
Perfluorobutanesulfonic acid (PFBS)	0.89	J	1.8	0.44	ng/L	1	537 (modified)	Total/NA	
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.8	0.71	ng/L	1	537 (modified)	Total/NA	
Aluminum	3.5		0.20	0.060	mg/L	1	200.7 Rev 4.4	Total/NA	
Barium	1.1		0.0020	0.00070	mg/L	1	200.7 Rev 4.4	Total/NA	
Calcium	80.3		0.50	0.10	mg/L	1	200.7 Rev 4.4	Total/NA	
Chromium, Total	0.0048		0.0040	0.0010	mg/L	1	200.7 Rev 4.4	Total/NA	
Cobalt	0.0018	J	0.0040	0.00063	mg/L	1	200.7 Rev 4.4	Total/NA	
Copper	0.0050	J	0.010	0.0016	mg/L	1	200.7 Rev 4.4	Total/NA	
Iron	11.7		0.050	0.019	mg/L	1	200.7 Rev 4.4	Total/NA	
Magnesium	25.2		0.20	0.043	mg/L	1	200.7 Rev 4.4	Total/NA	
Manganese	0.34	B	0.0030	0.00040	mg/L	1	200.7 Rev 4.4	Total/NA	
Nickel	0.0048	J	0.010	0.0013	mg/L	1	200.7 Rev 4.4	Total/NA	
Potassium	3.5		0.50	0.10	mg/L	1	200.7 Rev 4.4	Total/NA	
Sodium	16.0		1.0	0.32	mg/L	1	200.7 Rev 4.4	Total/NA	
Vanadium	0.0063		0.0050	0.0015	mg/L	1	200.7 Rev 4.4	Total/NA	
Zinc	0.014	B	0.010	0.0015	mg/L	1	200.7 Rev 4.4	Total/NA	
Arsenic	24.4	B	1.0	0.27	ug/L	1	200.8	Total/NA	
Lead	3.0		1.0	0.17	ug/L	1	200.8	Total/NA	
Thallium	0.033	J	0.20	0.019	ug/L	1	200.8	Total/NA	

Client Sample ID: CTLMW116S-090519

Lab Sample ID: 480-158837-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.0	ug/L	1	524.2	Total/NA	
Carbon disulfide	0.31	J	0.50	0.15	ug/L	1	524.2	Total/NA	
Chloromethane	0.19	J	0.50	0.17	ug/L	1	524.2	Total/NA	
Toluene	0.11	J	0.50	0.10	ug/L	1	524.2	Total/NA	
Aluminum	49.7		0.20	0.060	mg/L	1	200.7 Rev 4.4	Total/NA	
Barium	0.56		0.0020	0.00070	mg/L	1	200.7 Rev 4.4	Total/NA	
Beryllium	0.0021		0.0020	0.00030	mg/L	1	200.7 Rev 4.4	Total/NA	
Calcium	183		0.50	0.10	mg/L	1	200.7 Rev 4.4	Total/NA	
Chromium, Total	0.062		0.0040	0.0010	mg/L	1	200.7 Rev 4.4	Total/NA	
Cobalt	0.034		0.0040	0.00063	mg/L	1	200.7 Rev 4.4	Total/NA	
Copper	0.10		0.010	0.0016	mg/L	1	200.7 Rev 4.4	Total/NA	
Iron	119		0.050	0.019	mg/L	1	200.7 Rev 4.4	Total/NA	
Magnesium	60.8		0.20	0.043	mg/L	1	200.7 Rev 4.4	Total/NA	
Manganese	3.8	B	0.0030	0.00040	mg/L	1	200.7 Rev 4.4	Total/NA	
Nickel	0.080		0.010	0.0013	mg/L	1	200.7 Rev 4.4	Total/NA	
Potassium	13.2		0.50	0.10	mg/L	1	200.7 Rev 4.4	Total/NA	
Sodium	5.6		1.0	0.32	mg/L	1	200.7 Rev 4.4	Total/NA	
Vanadium	0.078		0.0050	0.0015	mg/L	1	200.7 Rev 4.4	Total/NA	
Zinc	0.27	B	0.010	0.0015	mg/L	1	200.7 Rev 4.4	Total/NA	
Arsenic	41.7	B	1.0	0.27	ug/L	1	200.8	Total/NA	
Lead	26.5		1.0	0.17	ug/L	1	200.8	Total/NA	
Thallium	0.35		0.20	0.019	ug/L	1	200.8	Total/NA	

Client Sample ID: RB090319

Lab Sample ID: 480-158837-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: RB090519

No Detections.

Lab Sample ID: 480-158837-16

Client Sample ID: RB090419

No Detections.

Lab Sample ID: 480-158837-17

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: TB09032019
Date Collected: 09/03/19 11:30
Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 14:46		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 14:46		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 14:46		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 14:46		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 14:46		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 14:46		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 14:46		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 14:46		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 14:46		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 14:46		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 14:46		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 14:46		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 14:46		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 14:46		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 14:46		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 14:46		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 14:46		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 14:46		1
Acetone	5.0	U	5.0	1.0	ug/L		09/11/19 14:46		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 14:46		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 14:46		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 14:46		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 14:46		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 14:46		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 14:46		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 14:46		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 14:46		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 14:46		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 14:46		1
Chloromethane	0.39	J	0.50	0.17	ug/L		09/11/19 14:46		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 14:46		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 14:46		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 14:46		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 14:46		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: TB09032019
Date Collected: 09/03/19 11:30
Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-1
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L		09/11/19 14:46		1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L		09/11/19 14:46		1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L		09/11/19 14:46		1
Naphthalene	0.50	U	0.50	0.15	ug/L		09/11/19 14:46		1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L		09/11/19 14:46		1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
o-Xylene	0.50	U	0.50	0.12	ug/L		09/11/19 14:46		1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L		09/11/19 14:46		1
Styrene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
t-Butanol	10	U	10	2.5	ug/L		09/11/19 14:46		1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L		09/11/19 14:46		1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L		09/11/19 14:46		1
Toluene	0.50	U	0.50	0.10	ug/L		09/11/19 14:46		1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L		09/11/19 14:46		1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L		09/11/19 14:46		1
Trichloroethene	0.50	U	0.50	0.18	ug/L		09/11/19 14:46		1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L		09/11/19 14:46		1
Vinyl acetate	2.5	U	2.5	0.45	ug/L		09/11/19 14:46		1
Vinyl chloride	0.50	U	0.50	0.18	ug/L		09/11/19 14:46		1
Xylenes, Total	1.0	U	1.0	0.12	ug/L		09/11/19 14:46		1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L		09/11/19 14:46		1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L		09/11/19 14:46		1
Surrogate				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)				100		80 - 120		09/11/19 14:46	1
1,2-Dichlorobenzene-d4				100		80 - 120		09/11/19 14:46	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102-090319

Lab Sample ID: 480-158837-2

Matrix: Water

Date Collected: 09/03/19 14:30
Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:11	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 15:11	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 15:11	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:11	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 15:11	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 15:11	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 15:11	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:11	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 15:11	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:11	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:11	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 15:11	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 15:11	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 15:11	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 15:11	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 15:11	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 15:11	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 15:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 15:11	1
Acetone	1.3	J	5.0	1.0	ug/L			09/11/19 15:11	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 15:11	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 15:11	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 15:11	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:11	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 15:11	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 15:11	1
Carbon disulfide	0.50	U	0.50	0.15	ug/L			09/11/19 15:11	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 15:11	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 15:11	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 15:11	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 15:11	1
Chloromethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:11	1
cis-1,2-Dichloroethene	5.1		0.50	0.12	ug/L			09/11/19 15:11	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 15:11	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:11	1
Dichlorodifluoromethane	0.50	U F1	0.50	0.15	ug/L			09/11/19 15:11	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 15:11	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 15:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102-090319

Lab Sample ID: 480-158837-2

Matrix: Water

Date Collected: 09/03/19 14:30

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 15:11	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:11	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 15:11	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 15:11	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 15:11	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 15:11	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 15:11	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 15:11	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 15:11	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 15:11	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 15:11	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 15:11	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 15:11	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 15:11	1
Trichloroethene	0.89		0.50	0.18	ug/L			09/11/19 15:11	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 15:11	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 15:11	1
Vinyl chloride	0.49 J		0.50	0.18	ug/L			09/11/19 15:11	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 15:11	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 15:11	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 15:11	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		100		80 - 120				09/11/19 15:11	1
1,2-Dichlorobenzene-d4		102		80 - 120				09/11/19 15:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 18:24	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		29		15 - 110			09/10/19 15:45	09/13/19 18:24	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.7	U	1.7	0.85	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluoropentanoic acid (PFPeA)	1.7	U	1.7	0.53	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.64	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluoroctanoic acid (PFOA)	1.7	U	1.7	0.69	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.23	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.50	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorobutanesulfonic acid (PFBS)	1.7	U	1.7	0.41	ng/L		09/12/19 09:44	09/13/19 17:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102-090319

Lab Sample ID: 480-158837-2

Matrix: Water

Date Collected: 09/03/19 14:30

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.68	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.80	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorooctanesulfonic acid (PFOS)	1.7	U	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.76	ng/L		09/12/19 09:44	09/13/19 17:39	1
Perfluorooctanesulfonamide (PFOSA)	8.5	U	8.5	8.5	ng/L		09/12/19 09:44	09/13/19 17:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.4	ng/L		09/12/19 09:44	09/13/19 17:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.3	ng/L		09/12/19 09:44	09/13/19 17:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17	U	17	4.7	ng/L		09/12/19 09:44	09/13/19 17:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.5	ng/L		09/12/19 09:44	09/13/19 17:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	122		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C4 PFHpA	94		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C4 PFOA	87		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C4 PFOS	90		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C5 PFNA	77		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C4 PFBA	100		25 - 150				09/12/19 09:44	09/13/19 17:39	1
13C2 PFHxA	98		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C2 PFDA	81		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C2 PFUnA	76		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C2 PFDoA	77		50 - 150				09/12/19 09:44	09/13/19 17:39	1
13C8 FOSA	62		25 - 150				09/12/19 09:44	09/13/19 17:39	1
13C5 PPpEA	89		25 - 150				09/12/19 09:44	09/13/19 17:39	1
13C2 PFTeDA	55		50 - 150				09/12/19 09:44	09/13/19 17:39	1
d3-NMeFOSAA	67		50 - 150				09/12/19 09:44	09/13/19 17:39	1
d5-NEtFOSAA	61		50 - 150				09/12/19 09:44	09/13/19 17:39	1
M2-6:2 FTS	108		25 - 150				09/12/19 09:44	09/13/19 17:39	1
M2-8:2 FTS	94		25 - 150				09/12/19 09:44	09/13/19 17:39	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.23		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:18	1
Barium	0.093		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:18	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:18	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:18	1
Calcium	76.1		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:18	1
Chromium, Total	0.0040	U	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:18	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:18	1
Copper	0.0041	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:18	1
Iron	0.35		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:18	1
Magnesium	16.0		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:18	1
Manganese	0.26	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:18	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:18	1
Potassium	1.2		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:18	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/16/19 22:35	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:18	1
Sodium	3.8		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 22:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102-090319

Lab Sample ID: 480-158837-2

Matrix: Water

Date Collected: 09/03/19 14:30
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0050	U	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:18	1
Zinc	0.010	U	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:18	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 11:41	1
Arsenic	0.74	J B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 13:47	1
Lead	2.2		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 13:47	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 13:47	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:50	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102I-090319

Lab Sample ID: 480-158837-3

Matrix: Water

Date Collected: 09/03/19 12:21

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:36	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 15:36	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 15:36	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:36	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 15:36	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 15:36	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 15:36	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:36	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 15:36	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 15:36	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:36	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:36	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 15:36	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 15:36	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 15:36	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 15:36	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 15:36	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 15:36	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 15:36	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 15:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 15:36	1
Acetone	5.0	U	5.0	1.0	ug/L			09/11/19 15:36	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 15:36	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 15:36	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 15:36	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 15:36	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 15:36	1
Dichlorodibromomethane	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
Dichloroform	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
Chloromethane	0.17	J	0.50	0.17	ug/L			09/11/19 15:36	1
cis-1,2-Dichloroethene	3.8		0.50	0.12	ug/L			09/11/19 15:36	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 15:36	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 15:36	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 15:36	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 15:36	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 15:36	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 15:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102I-090319

Lab Sample ID: 480-158837-3

Matrix: Water

Date Collected: 09/03/19 12:21

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 15:36	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 15:36	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 15:36	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 15:36	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 15:36	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 15:36	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 15:36	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 15:36	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 15:36	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 15:36	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 15:36	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 15:36	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 15:36	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 15:36	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 15:36	1
Trichloroethene	1.7		0.50	0.18	ug/L			09/11/19 15:36	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 15:36	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 15:36	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 15:36	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 15:36	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 15:36	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 15:36	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		101		80 - 120				09/11/19 15:36	1
1,2-Dichlorobenzene-d4		101		80 - 120				09/11/19 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 18:48	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		29		15 - 110			09/10/19 15:45	09/13/19 18:48	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.7	U	1.7	0.85	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluoropentanoic acid (PFPeA)	1.7	U	1.7	0.54	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorooctanoic acid (PFOA)	0.71 J		1.7	0.69	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.23	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.50	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.79	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorobutanesulfonic acid (PFBS)	1.7	U	1.7	0.42	ng/L		09/12/19 09:44	09/13/19 18:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102I-090319

Lab Sample ID: 480-158837-3

Matrix: Water

Date Collected: 09/03/19 12:21

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.68	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.81	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorooctanesulfonic acid (PFOS)	1.7	U	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 18:03	1
Perfluorooctanesulfonamide (PFOSA)	8.5	U	8.5	8.5	ng/L		09/12/19 09:44	09/13/19 18:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.5	ng/L		09/12/19 09:44	09/13/19 18:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.3	ng/L		09/12/19 09:44	09/13/19 18:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17	U	17	4.7	ng/L		09/12/19 09:44	09/13/19 18:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.5	ng/L		09/12/19 09:44	09/13/19 18:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	116		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C4 PFHpA	94		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C4 PFOA	94		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C4 PFOS	92		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C5 PFNA	81		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C4 PFBA	79		25 - 150				09/12/19 09:44	09/13/19 18:03	1
13C2 PFHxA	92		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C2 PFDA	79		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C2 PFUnA	71		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C2 PFDoA	75		50 - 150				09/12/19 09:44	09/13/19 18:03	1
13C8 FOSA	68		25 - 150				09/12/19 09:44	09/13/19 18:03	1
13C5 PPpEA	78		25 - 150				09/12/19 09:44	09/13/19 18:03	1
13C2 PFTeDA	57		50 - 150				09/12/19 09:44	09/13/19 18:03	1
d3-NMeFOSAA	69		50 - 150				09/12/19 09:44	09/13/19 18:03	1
d5-NEtFOSAA	61		50 - 150				09/12/19 09:44	09/13/19 18:03	1
M2-6:2 FTS	104		25 - 150				09/12/19 09:44	09/13/19 18:03	1
M2-8:2 FTS	86		25 - 150				09/12/19 09:44	09/13/19 18:03	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	2.5		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:48	1
Barium	0.13		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:48	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:48	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:48	1
Calcium	84.8		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:48	1
Chromium, Total	0.0032	J	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:48	1
Cobalt	0.0011	J	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:48	1
Copper	0.013		0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:48	1
Iron	3.4		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:48	1
Magnesium	19.7		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:48	1
Manganese	0.65	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:48	1
Nickel	0.0057	J	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:48	1
Potassium	2.0		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:48	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 22:48	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:48	1
Sodium	4.2		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 22:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW102I-090319

Lab Sample ID: 480-158837-3

Matrix: Water

Date Collected: 09/03/19 12:21
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0051		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:48	1
Zinc	0.012	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:48	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 11:53	1
Arsenic	0.58	J B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 13:59	1
Lead	2.6		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 13:59	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 13:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:55	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Matrix: Water

Date Collected: 09/04/19 12:00

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:01		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 16:01		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 16:01		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:01		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:01		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 16:01		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 16:01		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 16:01		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 16:01		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 16:01		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 16:01		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 16:01		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:01		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 16:01		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 16:01		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 16:01		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 16:01		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 16:01		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 16:01		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 16:01		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 16:01		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 16:01		1
Acetone	1.2	J	5.0	1.0	ug/L		09/11/19 16:01		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 16:01		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 16:01		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 16:01		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:01		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 16:01		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 16:01		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 16:01		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 16:01		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 16:01		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 16:01		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 16:01		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 16:01		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 16:01		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:01		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 16:01		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 16:01		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:01		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 16:01		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 16:01		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 16:01		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 16:01		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Matrix: Water

Date Collected: 09/04/19 12:00

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 16:01	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 16:01	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 16:01	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 16:01	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 16:01	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 16:01	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 16:01	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:01	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 16:01	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 16:01	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 16:01	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 16:01	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 16:01	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 16:01	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 16:01	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 16:01	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 16:01	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 16:01	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 16:01	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 16:01	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 16:01	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 16:01	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 16:01	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 16:01	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 16:01	1
Surrogate				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)				101		80 - 120			
1,2-Dichlorobenzene-d4				97		80 - 120			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 19:11	1
Isotope Dilution				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8				26		15 - 110			

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.7	U	1.7	0.83	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluoropentanoic acid (PFPeA)	1.7	U	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.63	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.76	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorooctanoic acid (PFOA)	0.76	J	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.22	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.64	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.49	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.50	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorobutanesulfonic acid (PFBS)	1.7	U	1.7	0.41	ng/L		09/12/19 09:44	09/13/19 18:11	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Matrix: Water

Date Collected: 09/04/19 12:00

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.79	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorooctanesulfonic acid (PFOS)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.75	ng/L		09/12/19 09:44	09/13/19 18:11	1
Perfluorooctanesulfonamide (PFOSA)	8.3	U	8.3	8.3	ng/L		09/12/19 09:44	09/13/19 18:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.4	ng/L		09/12/19 09:44	09/13/19 18:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.2	ng/L		09/12/19 09:44	09/13/19 18:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17	U	17	4.6	ng/L		09/12/19 09:44	09/13/19 18:11	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.4	ng/L		09/12/19 09:44	09/13/19 18:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	113		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C4 PFHpA	90		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C4 PFOA	83		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C4 PFOS	87		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C5 PFNA	71		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C4 PFBA	106		25 - 150				09/12/19 09:44	09/13/19 18:11	1
13C2 PFHxA	90		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C2 PFDA	79		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C2 PFUnA	76		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C2 PFDoA	92		50 - 150				09/12/19 09:44	09/13/19 18:11	1
13C8 FOSA	66		25 - 150				09/12/19 09:44	09/13/19 18:11	1
13C5 PPpEA	81		25 - 150				09/12/19 09:44	09/13/19 18:11	1
13C2 PFTeDA	60		50 - 150				09/12/19 09:44	09/13/19 18:11	1
d3-NMeFOSAA	72		50 - 150				09/12/19 09:44	09/13/19 18:11	1
d5-NEtFOSAA	64		50 - 150				09/12/19 09:44	09/13/19 18:11	1
M2-6:2 FTS	106		25 - 150				09/12/19 09:44	09/13/19 18:11	1
M2-8:2 FTS	107		25 - 150				09/12/19 09:44	09/13/19 18:11	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:52	1
Barium	0.10		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:52	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:52	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:52	1
Calcium	60.1		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:52	1
Chromium, Total	0.0025	J	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:52	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:52	1
Copper	0.0030	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:52	1
Iron	1.7		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:52	1
Magnesium	13.0		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:52	1
Manganese	0.046	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:52	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:52	1
Potassium	1.7		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:52	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 22:52	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:52	1
Sodium	12.3		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 22:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Matrix: Water

Date Collected: 09/04/19 12:00
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0028	J	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:52	1
Zinc	0.0059	J B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:52	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 11:55	1
Arsenic	1.0	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:01	1
Lead	1.3		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:01	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:01	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:56	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Matrix: Water

Date Collected: 09/04/19 12:21
 Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 16:26	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 16:26	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 16:26	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 16:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 16:26	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 16:26	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 16:26	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 16:26	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 16:26	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 16:26	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 16:26	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 16:26	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 16:26	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 16:26	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 16:26	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 16:26	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 16:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 16:26	1
Acetone	5.0	U	5.0	1.0	ug/L			09/11/19 16:26	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 16:26	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 16:26	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 16:26	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 16:26	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 16:26	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 16:26	1
Carbon disulfide	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 16:26	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 16:26	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 16:26	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 16:26	1
Chloromethane	0.23	J	0.50	0.17	ug/L			09/11/19 16:26	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 16:26	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 16:26	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 16:26	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 16:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Matrix: Water

Date Collected: 09/04/19 12:21

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 16:26	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 16:26	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 16:26	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 16:26	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 16:26	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 16:26	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 16:26	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 16:26	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 16:26	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 16:26	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 16:26	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 16:26	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 16:26	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 16:26	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 16:26	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 16:26	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 16:26	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 16:26	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 16:26	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 16:26	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		100		80 - 120				09/11/19 16:26	1
1,2-Dichlorobenzene-d4		100		80 - 120				09/11/19 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 19:35	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		25		15 - 110			09/10/19 15:45	09/13/19 19:35	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.2	J	1.6	0.82	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluoropentanoic acid (PFPeA)	1.6	U	1.6	0.52	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorohexanoic acid (PFHxA)	1.6	U	1.6	0.62	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluoroheptanoic acid (PFHpA)	1.6	U	1.6	0.75	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluoroctanoic acid (PFOA)	1.6	U	1.6	0.66	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorononanoic acid (PFNA)	1.6	U	1.6	0.22	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorodecanoic acid (PFDA)	1.6	U	1.6	0.63	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	1.6	0.64	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorododecanoic acid (PFDoA)	1.6	U	1.6	0.48	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorotridecanoic acid (PFTriA)	1.6	U	1.6	0.49	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorotetradecanoic acid (PFTeA)	1.6	U	1.6	0.75	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorobutanesulfonic acid (PFBS)	1.6	U	1.6	0.40	ng/L		09/12/19 09:44	09/13/19 18:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Matrix: Water

Date Collected: 09/04/19 12:21
Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.6	U	1.6	0.66	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	U	1.6	0.78	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorooctanesulfonic acid (PFOS)	1.6	U	1.6	0.50	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorodecanesulfonic acid (PFDS)	1.6	U	1.6	0.74	ng/L		09/12/19 09:44	09/13/19 18:19	1
Perfluorooctanesulfonamide (PFOSA)	8.2	U	8.2	8.2	ng/L		09/12/19 09:44	09/13/19 18:19	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	16	U	16	1.4	ng/L		09/12/19 09:44	09/13/19 18:19	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16	U	16	1.2	ng/L		09/12/19 09:44	09/13/19 18:19	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	16	U	16	4.5	ng/L		09/12/19 09:44	09/13/19 18:19	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	16	U	16	2.4	ng/L		09/12/19 09:44	09/13/19 18:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	115		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C4 PFHpA	103		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C4 PFOA	99		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C4 PFOS	93		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C5 PFNA	89		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C4 PFBA	24 *		25 - 150				09/12/19 09:44	09/13/19 18:19	1
13C2 PFHxA	115		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C2 PFDA	88		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C2 PFUnA	75		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C2 PFDoA	76		50 - 150				09/12/19 09:44	09/13/19 18:19	1
13C8 FOSA	88		25 - 150				09/12/19 09:44	09/13/19 18:19	1
13C5 PPpEA	97		25 - 150				09/12/19 09:44	09/13/19 18:19	1
13C2 PFTeDA	62		50 - 150				09/12/19 09:44	09/13/19 18:19	1
d3-NMeFOSAA	74		50 - 150				09/12/19 09:44	09/13/19 18:19	1
d5-NEtFOSAA	66		50 - 150				09/12/19 09:44	09/13/19 18:19	1
M2-6:2 FTS	107		25 - 150				09/12/19 09:44	09/13/19 18:19	1
M2-8:2 FTS	101		25 - 150				09/12/19 09:44	09/13/19 18:19	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.36		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:56	1
Barium	0.33		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:56	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:56	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:56	1
Calcium	75.0		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:56	1
Chromium, Total	0.0040	U	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:56	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:56	1
Copper	0.0032	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:56	1
Iron	0.22		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:56	1
Magnesium	17.0		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:56	1
Manganese	0.0089	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:56	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:56	1
Potassium	2.8		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:56	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 22:56	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:56	1
Sodium	3.8		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 22:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Matrix: Water

Date Collected: 09/04/19 12:21
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0019	J	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:56	1
Zinc	0.0038	J B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:56	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 11:58	1
Arsenic	1.8	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:03	1
Lead	1.1		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:03	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:03	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:58	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:51		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 16:51		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 16:51		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:51		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:51		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 16:51		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 16:51		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 16:51		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 16:51		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 16:51		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 16:51		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 16:51		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:51		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 16:51		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 16:51		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 16:51		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 16:51		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 16:51		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 16:51		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 16:51		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 16:51		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 16:51		1
Acetone	1.2	J	5.0	1.0	ug/L		09/11/19 16:51		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 16:51		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 16:51		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 16:51		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 16:51		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 16:51		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 16:51		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 16:51		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 16:51		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 16:51		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 16:51		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 16:51		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 16:51		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 16:51		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:51		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 16:51		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 16:51		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 16:51		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 16:51		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 16:51		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 16:51		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 16:51		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 16:51	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 16:51	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 16:51	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 16:51	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 16:51	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 16:51	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 16:51	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 16:51	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 16:51	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 16:51	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 16:51	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 16:51	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 16:51	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 16:51	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 16:51	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 16:51	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 16:51	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 16:51	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 16:51	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 16:51	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 16:51	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 16:51	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 16:51	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 16:51	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 16:51	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surrogate)		100		80 - 120				09/11/19 16:51	1
1,2-Dichlorobenzene-d4		103		80 - 120				09/11/19 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 19:58	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		25		15 - 110			09/10/19 15:45	09/13/19 19:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.9		1.6	0.82	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoropentanoic acid (PFPeA)	0.89	J	1.6	0.52	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.6	0.62	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoroheptanoic acid (PFHpA)	1.6	U	1.6	0.74	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorooctanoic acid (PFOA)	0.98	J	1.6	0.66	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorononanoic acid (PFNA)	1.6	U	1.6	0.22	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorodecanoic acid (PFDA)	1.6	U	1.6	0.63	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	1.6	0.64	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorododecanoic acid (PFDoA)	1.6	U	1.6	0.48	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorotridecanoic acid (PFTriA)	1.6	U	1.6	0.49	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorotetradecanoic acid (PFTeA)	1.6	U	1.6	0.75	ng/L		09/12/19 09:44	09/13/19 18:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.71	J	1.6	0.40	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	U	1.6	0.65	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	U	1.6	0.78	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoroctanesulfonic acid (PFOS)	1.6	U	1.6	0.50	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluorodecanesulfonic acid (PFDS)	1.6	U	1.6	0.74	ng/L		09/12/19 09:44	09/13/19 18:27	1
Perfluoroctanesulfonamide (PFOSA)	8.2	U	8.2	8.2	ng/L		09/12/19 09:44	09/13/19 18:27	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	16	U	16	1.4	ng/L		09/12/19 09:44	09/13/19 18:27	1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	16	U	16	1.2	ng/L		09/12/19 09:44	09/13/19 18:27	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	16	U	16	4.5	ng/L		09/12/19 09:44	09/13/19 18:27	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	16	U	16	2.4	ng/L		09/12/19 09:44	09/13/19 18:27	1
<i>Isotope Dilution</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	125		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C4 PFHpA	93		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C4 PFOA	96		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C4 PFOS	96		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C5 PFNA	76		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C4 PFBA	79		25 - 150				09/12/19 09:44	09/13/19 18:27	1
13C2 PFHxA	100		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C2 PFDA	77		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C2 PFUnA	73		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C2 PFDoA	79		50 - 150				09/12/19 09:44	09/13/19 18:27	1
13C8 FOSA	72		25 - 150				09/12/19 09:44	09/13/19 18:27	1
13C5 PPFA	83		25 - 150				09/12/19 09:44	09/13/19 18:27	1
13C2 PFTeDA	66		50 - 150				09/12/19 09:44	09/13/19 18:27	1
d3-NMeFOSAA	76		50 - 150				09/12/19 09:44	09/13/19 18:27	1
d5-NEtFOSAA	67		50 - 150				09/12/19 09:44	09/13/19 18:27	1
M2-6:2 FTS	121		25 - 150				09/12/19 09:44	09/13/19 18:27	1
M2-8:2 FTS	93		25 - 150				09/12/19 09:44	09/13/19 18:27	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.8		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:59	1
Barium	0.55		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:59	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:59	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:59	1
Calcium	121		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:59	1
Chromium, Total	0.0051		0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:59	1
Cobalt	0.0025	J	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:59	1
Copper	0.0058	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:59	1
Iron	11.0		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:59	1
Magnesium	38.9		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:59	1
Manganese	0.34	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:59	1
Nickel	0.0056	J	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:59	1
Potassium	3.2		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:59	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 22:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:59	1
Sodium	8.8		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 22:59	1
Vanadium	0.0078		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:59	1
Zinc	0.022	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:59	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:07	1
Arsenic	11.5	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:13	1
Lead	1.8		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:13	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:13	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:59	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Matrix: Water

Date Collected: 09/04/19 14:50

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 17:16		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 17:16		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 17:16		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 17:16		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 17:16		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 17:16		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 17:16		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 17:16		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 17:16		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 17:16		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 17:16		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 17:16		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 17:16		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 17:16		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 17:16		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 17:16		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 17:16		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 17:16		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 17:16		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 17:16		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 17:16		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 17:16		1
Acetone	1.0	J	5.0	1.0	ug/L		09/11/19 17:16		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 17:16		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 17:16		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 17:16		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 17:16		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 17:16		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 17:16		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 17:16		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 17:16		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 17:16		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 17:16		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 17:16		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 17:16		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 17:16		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 17:16		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 17:16		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 17:16		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 17:16		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 17:16		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 17:16		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 17:16		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 17:16		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Matrix: Water

Date Collected: 09/04/19 14:50

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 17:16	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 17:16	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 17:16	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 17:16	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 17:16	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 17:16	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 17:16	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:16	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 17:16	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 17:16	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 17:16	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 17:16	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 17:16	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 17:16	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 17:16	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 17:16	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 17:16	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 17:16	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 17:16	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 17:16	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 17:16	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 17:16	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 17:16	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 17:16	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 17:16	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		99		80 - 120				09/11/19 17:16	1
1,2-Dichlorobenzene-d4		101		80 - 120				09/11/19 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 20:22	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		27		15 - 110			09/10/19 15:45	09/13/19 20:22	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.9		1.7	0.83	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoropentanoic acid (PFPeA)	1.6	J	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorohexanoic acid (PFHxA)	1.1	J	1.7	0.63	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.76	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorooctanoic acid (PFOA)	2.2		1.7	0.67	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorononanoic acid (PFNA)	0.45	J	1.7	0.22	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorodecanoic acid (PFDA)	0.76	J	1.7	0.64	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorododecanoic acid (PFDoA)	0.53	J	1.7	0.49	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.50	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 18:35	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Matrix: Water

Date Collected: 09/04/19 14:50

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	5.4		1.7	0.41	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.79	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoroctanesulfonic acid (PFOS)	1.3	J	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.75	ng/L		09/12/19 09:44	09/13/19 18:35	1
Perfluoroctanesulfonamide (PFOSA)	8.3	U	8.3	8.3	ng/L		09/12/19 09:44	09/13/19 18:35	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.4	ng/L		09/12/19 09:44	09/13/19 18:35	1
N-Ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	1.7	J	17	1.2	ng/L		09/12/19 09:44	09/13/19 18:35	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	17	U	17	4.6	ng/L		09/12/19 09:44	09/13/19 18:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.4	ng/L		09/12/19 09:44	09/13/19 18:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	114		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C4 PFHpA	98		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C4 PFOA	98		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C4 PFOS	95		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C5 PFNA	102		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C4 PFBA	14 *		25 - 150				09/12/19 09:44	09/13/19 18:35	1
13C2 PFHxA	90		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C2 PFDA	102		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C2 PFUnA	141		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C2 PFDoA	84		50 - 150				09/12/19 09:44	09/13/19 18:35	1
13C8 FOSA	92		25 - 150				09/12/19 09:44	09/13/19 18:35	1
13C5 PPFA	47		25 - 150				09/12/19 09:44	09/13/19 18:35	1
13C2 PFTeDA	59		50 - 150				09/12/19 09:44	09/13/19 18:35	1
d3-NMeFOSAA	76		50 - 150				09/12/19 09:44	09/13/19 18:35	1
d5-NEtFOSAA	300 *		50 - 150				09/12/19 09:44	09/13/19 18:35	1
M2-6:2 FTS	123		25 - 150				09/12/19 09:44	09/13/19 18:35	1
M2-8:2 FTS	148		25 - 150				09/12/19 09:44	09/13/19 18:35	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:03	1
Barium	0.11		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:03	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:03	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:03	1
Calcium	49.1		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:03	1
Chromium, Total	0.0040	U	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:03	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:03	1
Copper	0.010	U	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:03	1
Iron	0.10		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:03	1
Magnesium	12.6		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:03	1
Manganese	0.27	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:03	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:03	1
Potassium	1.2		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Matrix: Water

Date Collected: 09/04/19 14:50

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:03	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:03	1
Sodium	4.6		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:03	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:03	1
Zinc	0.010	U	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:03	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:09	1
Arsenic	1.7	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:15	1
Lead	1.0	U	1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:15	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:15	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:00	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Matrix: Water

Date Collected: 09/05/19 12:45
 Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 17:40	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 17:40	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 17:40	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 17:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 17:40	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 17:40	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 17:40	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 17:40	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 17:40	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 17:40	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 17:40	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 17:40	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 17:40	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 17:40	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 17:40	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 17:40	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 17:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 17:40	1
Acetone	5.0	U	5.0	1.0	ug/L			09/11/19 17:40	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 17:40	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 17:40	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 17:40	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 17:40	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 17:40	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 17:40	1
Carbon disulfide	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 17:40	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 17:40	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 17:40	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 17:40	1
Chloromethane	0.19	J	0.50	0.17	ug/L			09/11/19 17:40	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 17:40	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 17:40	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
Ethyl ether	0.21	J	0.50	0.12	ug/L			09/11/19 17:40	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 17:40	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 17:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Matrix: Water

Date Collected: 09/05/19 12:45

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 17:40	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 17:40	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 17:40	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 17:40	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 17:40	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 17:40	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 17:40	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 17:40	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 17:40	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 17:40	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 17:40	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 17:40	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 17:40	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 17:40	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 17:40	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 17:40	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 17:40	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 17:40	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 17:40	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 17:40	1
Surrogate				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surrogate)				102		80 - 120			
1,2-Dichlorobenzene-d4				100		80 - 120			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.13	J	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 20:45	1
Isotope Dilution				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8				28		15 - 110			

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.9	U	1.9	0.96	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoropentanoic acid (PFPeA)	1.9	U	1.9	0.61	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorohexanoic acid (PFHxA)	1.9	U	1.9	0.73	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroheptanoic acid (PFHpA)	1.9	U	1.9	0.88	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroctanoic acid (PFOA)	1.9	U	1.9	0.78	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorononanoic acid (PFNA)	1.9	U	1.9	0.26	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorodecanoic acid (PFDA)	1.9	U	1.9	0.74	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroundecanoic acid (PFUnA)	1.9	U	1.9	0.75	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorododecanoic acid (PFDoA)	1.9	U	1.9	0.57	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorotridecanoic acid (PFTriA)	1.9	U	1.9	0.58	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorotetradecanoic acid (PFTeA)	1.9	U	1.9	0.89	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorobutanesulfonic acid (PFBS)	1.9	U	1.9	0.47	ng/L		09/12/19 09:44	09/13/19 18:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Matrix: Water

Date Collected: 09/05/19 12:45

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.9	U	1.9	0.77	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.9	U	1.9	0.91	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroctanesulfonic acid (PFOS)	1.9	I	1.9	0.59	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluorodecanesulfonic acid (PFDS)	1.9	U	1.9	0.87	ng/L		09/12/19 09:44	09/13/19 18:51	1
Perfluoroctanesulfonamide (PFOSA)	9.6	U	9.6	9.6	ng/L		09/12/19 09:44	09/13/19 18:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	19	U	19	1.6	ng/L		09/12/19 09:44	09/13/19 18:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	19	U	19	1.4	ng/L		09/12/19 09:44	09/13/19 18:51	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	19	U	19	5.3	ng/L		09/12/19 09:44	09/13/19 18:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	19	U	19	2.8	ng/L		09/12/19 09:44	09/13/19 18:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	120		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C4 PFHpA	79		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C4 PFOA	78		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C4 PFOS	99		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C5 PFNA	66		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C4 PFBA	73		25 - 150				09/12/19 09:44	09/13/19 18:51	1
13C2 PFHxA	79		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C2 PFDA	76		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C2 PFUnA	78		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C2 PFDaA	98		50 - 150				09/12/19 09:44	09/13/19 18:51	1
13C8 FOSA	61		25 - 150				09/12/19 09:44	09/13/19 18:51	1
13C5 PPFA	71		25 - 150				09/12/19 09:44	09/13/19 18:51	1
13C2 PFTeDA	55		50 - 150				09/12/19 09:44	09/13/19 18:51	1
d3-NMeFOSAA	70		50 - 150				09/12/19 09:44	09/13/19 18:51	1
d5-NEtFOSAA	63		50 - 150				09/12/19 09:44	09/13/19 18:51	1
M2-6:2 FTS	112		25 - 150				09/12/19 09:44	09/13/19 18:51	1
M2-8:2 FTS	98		25 - 150				09/12/19 09:44	09/13/19 18:51	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.4		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:07	1
Barium	0.58		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:07	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:07	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:07	1
Calcium	90.6		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:07	1
Chromium, Total	0.0012	J	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:07	1
Cobalt	0.00063	J	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:07	1
Copper	0.010	U	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:07	1
Iron	5.1		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:07	1
Magnesium	26.2		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:07	1
Manganese	0.44	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:07	1
Nickel	0.0018	J	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:07	1
Potassium	2.3		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:07	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:07	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Matrix: Water

Date Collected: 09/05/19 12:45

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	20.5		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:07	1
Vanadium	0.0021	J	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:07	1
Zinc	0.0043	J B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:07	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:11	1
Arsenic	20.7	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:17	1
Lead	0.39	J	1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:17	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:17	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:07	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:05		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 18:05		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 18:05		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:05		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:05		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 18:05		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 18:05		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 18:05		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:05		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 18:05		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 18:05		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:05		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:05		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 18:05		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 18:05		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 18:05		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:05		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 18:05		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 18:05		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 18:05		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 18:05		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:05		1
Acetone	2.1	J	5.0	1.0	ug/L		09/11/19 18:05		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 18:05		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 18:05		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 18:05		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:05		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 18:05		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 18:05		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 18:05		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 18:05		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 18:05		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 18:05		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 18:05		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 18:05		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 18:05		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:05		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 18:05		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 18:05		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:05		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 18:05		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 18:05		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 18:05		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 18:05		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 18:05	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 18:05	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 18:05	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 18:05	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 18:05	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 18:05	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 18:05	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 18:05	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 18:05	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 18:05	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 18:05	1
t-Butanol	2.7 J		10	2.5	ug/L			09/11/19 18:05	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 18:05	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 18:05	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 18:05	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 18:05	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 18:05	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 18:05	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 18:05	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 18:05	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 18:05	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 18:05	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 18:05	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 18:05	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120					09/11/19 18:05	1
1,2-Dichlorobenzene-d4	102		80 - 120					09/11/19 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 21:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				09/10/19 15:45	09/13/19 21:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.7		1.7	0.85	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoropentanoic acid (PFPeA)	0.72 J		1.7	0.54	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorooctanoic acid (PFOA)	0.88 J		1.7	0.69	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.23	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.50	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 18:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	12		1.7	0.42	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.68	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.81	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoroctanesulfonic acid (PFOS)	2.2	I	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 18:59	1
Perfluoroctanesulfonamide (PFOSA)	8.5	U	8.5	8.5	ng/L		09/12/19 09:44	09/13/19 18:59	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.4	ng/L		09/12/19 09:44	09/13/19 18:59	1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.3	ng/L		09/12/19 09:44	09/13/19 18:59	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	17	U	17	4.7	ng/L		09/12/19 09:44	09/13/19 18:59	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.5	ng/L		09/12/19 09:44	09/13/19 18:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	115		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C4 PFHpA	85		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C4 PFOA	88		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C4 PFOS	94		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C5 PFNA	80		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C4 PFBA	67		25 - 150				09/12/19 09:44	09/13/19 18:59	1
13C2 PFHxA	88		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C2 PFDA	86		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C2 PFUnA	90		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C2 PFDoA	91		50 - 150				09/12/19 09:44	09/13/19 18:59	1
13C8 FOSA	63		25 - 150				09/12/19 09:44	09/13/19 18:59	1
13C5 PPFA	74		25 - 150				09/12/19 09:44	09/13/19 18:59	1
13C2 PFTeDA	64		50 - 150				09/12/19 09:44	09/13/19 18:59	1
d3-NMeFOSAA	72		50 - 150				09/12/19 09:44	09/13/19 18:59	1
d5-NEtFOSAA	61		50 - 150				09/12/19 09:44	09/13/19 18:59	1
M2-6:2 FTS	119		25 - 150				09/12/19 09:44	09/13/19 18:59	1
M2-8:2 FTS	118		25 - 150				09/12/19 09:44	09/13/19 18:59	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.0		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:22	1
Barium	0.17		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:22	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:22	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:22	1
Calcium	35.6		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:22	1
Chromium, Total	0.0014	J	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:22	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:22	1
Copper	0.010	U	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:22	1
Iron	1.6		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:22	1
Magnesium	8.6		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:22	1
Manganese	0.27	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:22	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:22	1
Potassium	2.1		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:22	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:22	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:22	1
Sodium	15.4		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:22	1
Vanadium	0.0022	J	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:22	1
Zinc	0.0017	J B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:22	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.38	J	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:14	1
Arsenic	4.2	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:19	1
Lead	0.30	J	1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:19	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:19	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:08	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:30		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 18:30		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 18:30		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:30		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:30		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 18:30		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 18:30		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 18:30		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:30		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 18:30		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 18:30		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:30		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:30		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 18:30		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 18:30		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 18:30		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:30		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 18:30		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 18:30		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 18:30		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 18:30		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:30		1
Acetone	1.9	J	5.0	1.0	ug/L		09/11/19 18:30		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 18:30		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 18:30		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 18:30		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:30		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 18:30		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 18:30		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 18:30		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 18:30		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 18:30		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 18:30		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 18:30		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 18:30		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 18:30		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:30		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 18:30		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 18:30		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:30		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 18:30		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 18:30		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 18:30		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 18:30		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 18:30	1				
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 18:30	1				
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 18:30	1				
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 18:30	1				
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 18:30	1				
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 18:30	1				
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 18:30	1				
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 18:30	1				
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 18:30	1				
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 18:30	1				
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 18:30	1				
t-Butanol	10	U	10	2.5	ug/L			09/11/19 18:30	1				
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 18:30	1				
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 18:30	1				
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 18:30	1				
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 18:30	1				
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 18:30	1				
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 18:30	1				
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 18:30	1				
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 18:30	1				
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 18:30	1				
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 18:30	1				
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 18:30	1				
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 18:30	1				
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 18:30	1				
Surrogate				%Recovery		Qualifier		Limits					
4-Bromofluorobenzene (Surr)				99		80 - 120							
1,2-Dichlorobenzene-d4				102		80 - 120							
								Prepared					
								Analyzed					
								Dil Fac					

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 21:33	1				
Isotope Dilution				%Recovery		Qualifier		Limits					
1,4-Dioxane-d8				27		15 - 110							
								Prepared					
								Analyzed					
								Dil Fac					

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.3		1.6	0.82	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoropentanoic acid (PFPeA)	1.0	J	1.6	0.51	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorohexanoic acid (PFHxA)	0.92	J	1.6	0.62	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoroheptanoic acid (PFHpA)	1.6	U	1.6	0.74	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorooctanoic acid (PFOA)	0.96	J	1.6	0.66	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorononanoic acid (PFNA)	1.6	U	1.6	0.22	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorodecanoic acid (PFDA)	1.6	U	1.6	0.63	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	1.6	0.64	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorododecanoic acid (PFDoA)	1.6	U	1.6	0.48	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorotridecanoic acid (PFTriA)	1.6	U	1.6	0.49	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorotetradecanoic acid (PFTeA)	1.6	U	1.6	0.75	ng/L		09/12/19 09:44	09/13/19 19:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	13		1.6	0.40	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	U	1.6	0.65	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	U	1.6	0.78	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoroctanesulfonic acid (PFOS)	2.3	I	1.6	0.50	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluorodecanesulfonic acid (PFDS)	1.6	U	1.6	0.73	ng/L		09/12/19 09:44	09/13/19 19:07	1
Perfluoroctanesulfonamide (PFOSA)	8.2	U	8.2	8.2	ng/L		09/12/19 09:44	09/13/19 19:07	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	16	U	16	1.4	ng/L		09/12/19 09:44	09/13/19 19:07	1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	16	U	16	1.2	ng/L		09/12/19 09:44	09/13/19 19:07	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	16	U	16	4.5	ng/L		09/12/19 09:44	09/13/19 19:07	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	16	U	16	2.4	ng/L		09/12/19 09:44	09/13/19 19:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	122		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C4 PFHpA	83		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C4 PFOA	80		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C4 PFOS	95		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C5 PFNA	76		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C4 PFBA	71		25 - 150				09/12/19 09:44	09/13/19 19:07	1
13C2 PFHxA	81		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C2 PFDA	84		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C2 PFUnA	90		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C2 PFDoA	96		50 - 150				09/12/19 09:44	09/13/19 19:07	1
13C8 FOSA	68		25 - 150				09/12/19 09:44	09/13/19 19:07	1
13C5 PPFA	72		25 - 150				09/12/19 09:44	09/13/19 19:07	1
13C2 PFTeDA	59		50 - 150				09/12/19 09:44	09/13/19 19:07	1
d3-NMeFOSAA	70		50 - 150				09/12/19 09:44	09/13/19 19:07	1
d5-NEtFOSAA	67		50 - 150				09/12/19 09:44	09/13/19 19:07	1
M2-6:2 FTS	117		25 - 150				09/12/19 09:44	09/13/19 19:07	1
M2-8:2 FTS	117		25 - 150				09/12/19 09:44	09/13/19 19:07	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.62		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:26	1
Barium	0.18		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:26	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:26	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:26	1
Calcium	36.8		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:26	1
Chromium, Total	0.0040	U	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:26	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:26	1
Copper	0.010	U	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:26	1
Iron	1.0		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:26	1
Magnesium	8.8		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:26	1
Manganese	0.28	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:26	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:26	1
Potassium	1.9		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:26	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:26	1
Sodium	16.0		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:26	1
Vanadium	0.0019	J	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:26	1
Zinc	0.010	U	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:26	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:16	1
Arsenic	4.1	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:22	1
Lead	0.17	J	1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:22	1
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:22	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:13	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Matrix: Water

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:55		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 18:55		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 18:55		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:55		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:55		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 18:55		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 18:55		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 18:55		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:55		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 18:55		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 18:55		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 18:55		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:55		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 18:55		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 18:55		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 18:55		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:55		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 18:55		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 18:55		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 18:55		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 18:55		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 18:55		1
Acetone	3.8	J	5.0	1.0	ug/L		09/11/19 18:55		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 18:55		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 18:55		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 18:55		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 18:55		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 18:55		1
Dichlorodibromomethane	0.50	U	0.50	0.13	ug/L		09/11/19 18:55		1
Dichloroethane	0.50	U	0.50	0.23	ug/L		09/11/19 18:55		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 18:55		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 18:55		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 18:55		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 18:55		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 18:55		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 18:55		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:55		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 18:55		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 18:55		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 18:55		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 18:55		1
Ethyl ether	0.50	U	0.50	0.12	ug/L		09/11/19 18:55		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 18:55		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 18:55		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Matrix: Water

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 18:55	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 18:55	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 18:55	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 18:55	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 18:55	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 18:55	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 18:55	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 18:55	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 18:55	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 18:55	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 18:55	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 18:55	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 18:55	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 18:55	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 18:55	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 18:55	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 18:55	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 18:55	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 18:55	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 18:55	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 18:55	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 18:55	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 18:55	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 18:55	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 18:55	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surrogate)		102		80 - 120				09/11/19 18:55	1
1,2-Dichlorobenzene-d4		102		80 - 120				09/11/19 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 21:56	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		29		15 - 110			09/10/19 15:45	09/13/19 21:56	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.8	U	1.8	0.91	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoropentanoic acid (PFPeA)	1.8	U	1.8	0.57	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorohexanoic acid (PFHxA)	1.8	U	1.8	0.69	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroheptanoic acid (PFHpA)	1.8	U	1.8	0.83	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroctanoic acid (PFOA)	1.8	U	1.8	0.74	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.25	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.70	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.71	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.54	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.55	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.84	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorobutanesulfonic acid (PFBS)	1.8	U	1.8	0.45	ng/L		09/12/19 09:44	09/13/19 19:15	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Matrix: Water

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.8	U	1.8	0.73	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.86	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroctanesulfonic acid (PFOS)	1.5	J I	1.8	0.55	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.82	ng/L		09/12/19 09:44	09/13/19 19:15	1
Perfluoroctanesulfonamide (PFOSA)	9.1	U	9.1	9.1	ng/L		09/12/19 09:44	09/13/19 19:15	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18	U	18	1.5	ng/L		09/12/19 09:44	09/13/19 19:15	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18	U	18	1.4	ng/L		09/12/19 09:44	09/13/19 19:15	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	18	U	18	5.0	ng/L		09/12/19 09:44	09/13/19 19:15	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	18	U	18	2.6	ng/L		09/12/19 09:44	09/13/19 19:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	118		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C4 PFHpA	96		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C4 PFOA	95		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C4 PFOS	94		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C5 PFNA	79		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C4 PFBA	71		25 - 150				09/12/19 09:44	09/13/19 19:15	1
13C2 PFHxA	97		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C2 PFDA	77		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C2 PFUnA	65		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C2 PFDaA	43 *		50 - 150				09/12/19 09:44	09/13/19 19:15	1
13C8 FOSA	76		25 - 150				09/12/19 09:44	09/13/19 19:15	1
13C5 PPFA	84		25 - 150				09/12/19 09:44	09/13/19 19:15	1
13C2 PFTeDA	29 *		50 - 150				09/12/19 09:44	09/13/19 19:15	1
d3-NMeFOSAA	70		50 - 150				09/12/19 09:44	09/13/19 19:15	1
d5-NEtFOSAA	58		50 - 150				09/12/19 09:44	09/13/19 19:15	1
M2-6:2 FTS	106		25 - 150				09/12/19 09:44	09/13/19 19:15	1
M2-8:2 FTS	89		25 - 150				09/12/19 09:44	09/13/19 19:15	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12.4		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:30	1
Barium	0.30		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:30	1
Beryllium	0.00057	J	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:30	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:30	1
Calcium	35.3		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:30	1
Chromium, Total	0.013		0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:30	1
Cobalt	0.0049		0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:30	1
Copper	0.0092	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:30	1
Iron	13.2		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:30	1
Magnesium	10.2		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:30	1
Manganese	0.20	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:30	1
Nickel	0.012		0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:30	1
Potassium	6.4		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:30	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:30	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Matrix: Water

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	15.1		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:30	1
Vanadium	0.022		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:30	1
Zinc	0.025	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:30	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.2		1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:18	1
Arsenic	18.0	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:24	1
Lead	3.6		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:24	1
Thallium	0.020	J	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:24	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:14	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW114S-090519

Lab Sample ID: 480-158837-12

Matrix: Water

Date Collected: 09/05/19 14:20

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 19:20	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 19:20	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 19:20	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 19:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 19:20	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 19:20	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 19:20	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 19:20	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 19:20	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 19:20	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 19:20	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 19:20	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 19:20	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 19:20	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 19:20	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 19:20	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 19:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 19:20	1
Acetone	1.9	J	5.0	1.0	ug/L			09/11/19 19:20	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 19:20	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 19:20	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 19:20	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 19:20	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 19:20	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 19:20	1
Carbon disulfide	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 19:20	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 19:20	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 19:20	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 19:20	1
Chloromethane	0.50	U	0.50	0.17	ug/L			09/11/19 19:20	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 19:20	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 19:20	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 19:20	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 19:20	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW114S-090519

Lab Sample ID: 480-158837-12

Matrix: Water

Date Collected: 09/05/19 14:20

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 19:20	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 19:20	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 19:20	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 19:20	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 19:20	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 19:20	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 19:20	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 19:20	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 19:20	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 19:20	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 19:20	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 19:20	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 19:20	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 19:20	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 19:20	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 19:20	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 19:20	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 19:20	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 19:20	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 19:20	1
Surrogate				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)				99		80 - 120			
1,2-Dichlorobenzene-d4				99		80 - 120			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/19/19 01:21	1
Isotope Dilution				%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8				27		15 - 110			

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.3	J	1.7	0.86	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoropentanoic acid (PFPeA)	1.7	U	1.7	0.54	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.65	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorooctanoic acid (PFOA)	1.7	U	1.7	0.70	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.23	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.79	ng/L		09/12/19 09:44	09/13/19 19:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Job ID: 480-158837-1

Client: New York State D.E.C.

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW114S-090519
Lab Sample ID: 480-158837-12
Matrix: Water

Date Collected: 09/05/19 14:20

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.49	J	1.7	0.42	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.69	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.82	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoroctanesulfonic acid (PFOS)	4.4	I	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.77	ng/L		09/12/19 09:44	09/13/19 19:23	1
Perfluoroctanesulfonamide (PFOSA)	8.6	U	8.6	8.6	ng/L		09/12/19 09:44	09/13/19 19:23	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.5	ng/L		09/12/19 09:44	09/13/19 19:23	1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.3	ng/L		09/12/19 09:44	09/13/19 19:23	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	17	U	17	4.7	ng/L		09/12/19 09:44	09/13/19 19:23	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.5	ng/L		09/12/19 09:44	09/13/19 19:23	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
18O2 PFHxS	120			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C4 PFHpA	96			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C4 PFOA	95			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C4 PFOS	94			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C5 PFNA	82			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C4 PFBA	76			25 - 150			09/12/19 09:44	09/13/19 19:23	1
13C2 PFHxA	98			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C2 PFDA	92			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C2 PFUnA	80			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C2 PFDoA	78			50 - 150			09/12/19 09:44	09/13/19 19:23	1
13C8 FOSA	92			25 - 150			09/12/19 09:44	09/13/19 19:23	1
13C5 PPFA	87			25 - 150			09/12/19 09:44	09/13/19 19:23	1
13C2 PFTeDA	46	*		50 - 150			09/12/19 09:44	09/13/19 19:23	1
d3-NMeFOSAA	64			50 - 150			09/12/19 09:44	09/13/19 19:23	1
d5-NEtFOSAA	56			50 - 150			09/12/19 09:44	09/13/19 19:23	1
M2-6:2 FTS	108			25 - 150			09/12/19 09:44	09/13/19 19:23	1
M2-8:2 FTS	110			25 - 150			09/12/19 09:44	09/13/19 19:23	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	35.8		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:34	1
Barium	0.42		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:34	1
Beryllium	0.0017	J	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:34	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:34	1
Calcium	81.9		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:34	1
Chromium, Total	0.045		0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:34	1
Cobalt	0.031		0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:34	1
Copper	0.041		0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:34	1
Iron	71.8		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:34	1
Magnesium	31.4		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:34	1
Manganese	1.5	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:34	1
Nickel	0.068		0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:34	1
Potassium	10.6		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW114S-090519

Lab Sample ID: 480-158837-12

Matrix: Water

Date Collected: 09/05/19 14:20

Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:34	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:34	1
Sodium	12.3		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:34	1
Vanadium	0.057		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:34	1
Zinc	0.15	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:34	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.48	J	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:20	1
Arsenic	51.8	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:26	1
Lead	25.8		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:26	1
Thallium	0.32		0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:26	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:16	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW115S-090519

Lab Sample ID: 480-158837-13

Matrix: Water

Date Collected: 09/05/19 15:30

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 19:45		1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L		09/11/19 19:45		1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L		09/11/19 19:45		1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L		09/11/19 19:45		1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L		09/11/19 19:45		1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L		09/11/19 19:45		1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L		09/11/19 19:45		1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L		09/11/19 19:45		1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 19:45		1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L		09/11/19 19:45		1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L		09/11/19 19:45		1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L		09/11/19 19:45		1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L		09/11/19 19:45		1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L		09/11/19 19:45		1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L		09/11/19 19:45		1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L		09/11/19 19:45		1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L		09/11/19 19:45		1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L		09/11/19 19:45		1
2-Hexanone	5.0	U	5.0	1.0	ug/L		09/11/19 19:45		1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L		09/11/19 19:45		1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L		09/11/19 19:45		1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L		09/11/19 19:45		1
Acetone	2.1	J	5.0	1.0	ug/L		09/11/19 19:45		1
Acrylonitrile	10	U	10	2.2	ug/L		09/11/19 19:45		1
Allyl chloride	0.50	U	0.50	0.22	ug/L		09/11/19 19:45		1
Benzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
Bromobenzene	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
Bromoform	0.50	U	0.50	0.11	ug/L		09/11/19 19:45		1
Bromomethane	0.50	U	0.50	0.14	ug/L		09/11/19 19:45		1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L		09/11/19 19:45		1
Bromoform	0.50	U	0.50	0.13	ug/L		09/11/19 19:45		1
Bromomethane	0.50	U	0.50	0.23	ug/L		09/11/19 19:45		1
Carbon disulfide	0.50	U	0.50	0.15	ug/L		09/11/19 19:45		1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L		09/11/19 19:45		1
Chlorobenzene	0.50	U	0.50	0.12	ug/L		09/11/19 19:45		1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L		09/11/19 19:45		1
Chloroethane	0.50	U	0.50	0.20	ug/L		09/11/19 19:45		1
Chloroform	0.50	U	0.50	0.14	ug/L		09/11/19 19:45		1
Chloromethane	0.50	U	0.50	0.17	ug/L		09/11/19 19:45		1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L		09/11/19 19:45		1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L		09/11/19 19:45		1
Dibromomethane	0.50	U	0.50	0.17	ug/L		09/11/19 19:45		1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L		09/11/19 19:45		1
Ethyl ether	0.66		0.50	0.12	ug/L		09/11/19 19:45		1
Ethylbenzene	0.50	U	0.50	0.11	ug/L		09/11/19 19:45		1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L		09/11/19 19:45		1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW115S-090519

Lab Sample ID: 480-158837-13

Matrix: Water

Date Collected: 09/05/19 15:30

Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 19:45	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 19:45	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 19:45	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 19:45	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 19:45	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 19:45	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 19:45	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 19:45	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 19:45	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 19:45	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 19:45	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 19:45	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 19:45	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 19:45	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 19:45	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 19:45	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 19:45	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 19:45	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 19:45	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 19:45	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 19:45	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 19:45	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 19:45	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 19:45	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 19:45	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		100		80 - 120				09/11/19 19:45	1
1,2-Dichlorobenzene-d4		99		80 - 120				09/11/19 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.27		0.20	0.10	ug/L		09/10/19 15:45	09/13/19 22:43	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		35		15 - 110			09/10/19 15:45	09/13/19 22:43	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.3		1.8	0.89	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluoropentanoic acid (PFPeA)	4.0		1.8	0.56	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorohexanoic acid (PFHxA)	4.2		1.8	0.68	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluoroheptanoic acid (PFHpA)	3.0		1.8	0.81	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorooctanoic acid (PFOA)	13		1.8	0.72	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.24	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.69	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.69	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.52	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.53	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.82	ng/L		09/12/19 09:44	09/13/19 19:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Job ID: 480-158837-1

Client: New York State D.E.C.

Project/Site: Carroll Town Landfill Site

Client Sample ID: CTLMW115S-090519
Lab Sample ID: 480-158837-13
Matrix: Water

Date Collected: 09/05/19 15:30

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.89	J	1.8	0.44	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.8	0.71	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.85	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluoroctanesulfonic acid (PFOS)	1.8	U	1.8	0.54	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.80	ng/L		09/12/19 09:44	09/13/19 19:31	1
Perfluorooctanesulfonamide (PFOSA)	8.9	U	8.9	8.9	ng/L		09/12/19 09:44	09/13/19 19:31	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18	U	18	1.5	ng/L		09/12/19 09:44	09/13/19 19:31	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18	U	18	1.3	ng/L		09/12/19 09:44	09/13/19 19:31	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	18	U	18	4.9	ng/L		09/12/19 09:44	09/13/19 19:31	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	18	U	18	2.6	ng/L		09/12/19 09:44	09/13/19 19:31	1
<i>Isotope Dilution</i>	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	116		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C4 PFHpA	99		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C4 PFOA	91		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C4 PFOS	88		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C5 PFNA	76		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C4 PFBA	92		25 - 150				09/12/19 09:44	09/13/19 19:31	1
13C2 PFHxA	95		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C2 PFDA	80		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C2 PFUnA	77		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C2 PFDoA	87		50 - 150				09/12/19 09:44	09/13/19 19:31	1
13C8 FOSA	62		25 - 150				09/12/19 09:44	09/13/19 19:31	1
13C5 PPFA	87		25 - 150				09/12/19 09:44	09/13/19 19:31	1
13C2 PFTeDA	61		50 - 150				09/12/19 09:44	09/13/19 19:31	1
d3-NMeFOSAA	71		50 - 150				09/12/19 09:44	09/13/19 19:31	1
d5-NEtFOSAA	60		50 - 150				09/12/19 09:44	09/13/19 19:31	1
M2-6:2 FTS	114		25 - 150				09/12/19 09:44	09/13/19 19:31	1
M2-8:2 FTS	111		25 - 150				09/12/19 09:44	09/13/19 19:31	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3.5		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:38	1
Barium	1.1		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:38	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:38	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:38	1
Calcium	80.3		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:38	1
Chromium, Total	0.0048		0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:38	1
Cobalt	0.0018	J	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:38	1
Copper	0.0050	J	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:38	1
Iron	11.7		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:38	1
Magnesium	25.2		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:38	1
Manganese	0.34	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:38	1
Nickel	0.0048	J	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:38	1
Potassium	3.5		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW115S-090519

Lab Sample ID: 480-158837-13

Matrix: Water

Date Collected: 09/05/19 15:30
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:38	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:38	1
Sodium	16.0		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:38	1
Vanadium	0.0063		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:38	1
Zinc	0.014	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:38	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:23	1
Arsenic	24.4	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:28	1
Lead	3.0		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:28	1
Thallium	0.033	J	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:28	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:20	1

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW116S-090519

Lab Sample ID: 480-158837-14

Matrix: Water

Date Collected: 09/05/19 17:40
 Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 20:10	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 20:10	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 20:10	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 20:10	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 20:10	1
1,1-Dichloroethylene	0.50	U	0.50	0.16	ug/L			09/11/19 20:10	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 20:10	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 20:10	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 20:10	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 20:10	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 20:10	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 20:10	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 20:10	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 20:10	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 20:10	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 20:10	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 20:10	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 20:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 20:10	1
Acetone	3.0	J	5.0	1.0	ug/L			09/11/19 20:10	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 20:10	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 20:10	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
Bromoform	0.50	U	0.50	0.11	ug/L			09/11/19 20:10	1
Bromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 20:10	1
Dichlorobromomethane	0.50	U	0.50	0.50	ug/L			09/11/19 20:10	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 20:10	1
Carbon disulfide	0.31	J	0.50	0.15	ug/L			09/11/19 20:10	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 20:10	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 20:10	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 20:10	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 20:10	1
Chloromethane	0.19	J	0.50	0.17	ug/L			09/11/19 20:10	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 20:10	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 20:10	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 20:10	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 20:10	1
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 20:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW116S-090519

Lab Sample ID: 480-158837-14

Matrix: Water

Date Collected: 09/05/19 17:40
Date Received: 09/06/19 09:15

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 20:10	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 20:10	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
Methylene Chloride	2.5	U *	2.5	0.99	ug/L			09/11/19 20:10	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 20:10	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 20:10	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 20:10	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 20:10	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 20:10	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 20:10	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 20:10	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 20:10	1
Toluene	0.11	J	0.50	0.10	ug/L			09/11/19 20:10	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 20:10	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 20:10	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 20:10	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 20:10	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 20:10	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 20:10	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 20:10	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 20:10	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 20:10	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surrogate)		99		80 - 120				09/11/19 20:10	1
1,2-Dichlorobenzene-d4		102		80 - 120				09/11/19 20:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20	0.10	ug/L		09/10/19 15:45	09/13/19 23:07	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8		30		15 - 110			09/10/19 15:45	09/13/19 23:07	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.8	U	1.8	0.91	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluoropentanoic acid (PFPeA)	1.8	U	1.8	0.57	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorohexanoic acid (PFHxA)	1.8	U	1.8	0.69	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluoroheptanoic acid (PFHpA)	1.8	U	1.8	0.82	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluoroctanoic acid (PFOA)	1.8	U	1.8	0.73	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.24	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.70	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.71	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.53	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.54	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.83	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorobutanesulfonic acid (PFBS)	1.8	U	1.8	0.44	ng/L		09/12/19 09:44	09/13/19 19:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW116S-090519

Lab Sample ID: 480-158837-14

Matrix: Water

Date Collected: 09/05/19 17:40

Date Received: 09/06/19 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.8	U	1.8	0.72	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.86	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorooctanesulfonic acid (PFOS)	1.8	U	1.8	0.55	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.82	ng/L		09/12/19 09:44	09/13/19 19:39	1
Perfluorooctanesulfonamide (PFOSA)	9.1	U	9.1	9.1	ng/L		09/12/19 09:44	09/13/19 19:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18	U	18	1.5	ng/L		09/12/19 09:44	09/13/19 19:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18	U	18	1.4	ng/L		09/12/19 09:44	09/13/19 19:39	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	18	U	18	5.0	ng/L		09/12/19 09:44	09/13/19 19:39	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	18	U	18	2.6	ng/L		09/12/19 09:44	09/13/19 19:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	115		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C4 PFHpA	86		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C4 PFOA	85		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C4 PFOS	93		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C5 PFNA	74		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C4 PFBA	74		25 - 150				09/12/19 09:44	09/13/19 19:39	1
13C2 PFHxA	87		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C2 PFDA	69		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C2 PFUnA	62		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C2 PFDoA	61		50 - 150				09/12/19 09:44	09/13/19 19:39	1
13C8 FOSA	63		25 - 150				09/12/19 09:44	09/13/19 19:39	1
13C5 PPpEA	76		25 - 150				09/12/19 09:44	09/13/19 19:39	1
13C2 PFTeDA	44 *		50 - 150				09/12/19 09:44	09/13/19 19:39	1
d3-NMeFOSAA	63		50 - 150				09/12/19 09:44	09/13/19 19:39	1
d5-NEtFOSAA	57		50 - 150				09/12/19 09:44	09/13/19 19:39	1
M2-6:2 FTS	100		25 - 150				09/12/19 09:44	09/13/19 19:39	1
M2-8:2 FTS	88		25 - 150				09/12/19 09:44	09/13/19 19:39	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	49.7		0.20	0.060	mg/L		09/12/19 07:27	09/13/19 23:41	1
Barium	0.56		0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 23:41	1
Beryllium	0.0021		0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 23:41	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 23:41	1
Calcium	183		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:41	1
Chromium, Total	0.062		0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 23:41	1
Cobalt	0.034		0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 23:41	1
Copper	0.10		0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 23:41	1
Iron	119		0.050	0.019	mg/L		09/12/19 07:27	09/13/19 23:41	1
Magnesium	60.8		0.20	0.043	mg/L		09/12/19 07:27	09/13/19 23:41	1
Manganese	3.8	B	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 23:41	1
Nickel	0.080		0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 23:41	1
Potassium	13.2		0.50	0.10	mg/L		09/12/19 07:27	09/13/19 23:41	1
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/13/19 23:41	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 23:41	1
Sodium	5.6		1.0	0.32	mg/L		09/12/19 07:27	09/13/19 23:41	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW116S-090519

Lab Sample ID: 480-158837-14

Matrix: Water

Date Collected: 09/05/19 17:40
 Date Received: 09/06/19 09:15

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.078		0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 23:41	1
Zinc	0.27	B	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 23:41	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 12:25	1
Arsenic	41.7	B	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 14:31	1
Lead	26.5		1.0	0.17	ug/L		09/11/19 08:35	09/11/19 14:31	1
Thallium	0.35		0.20	0.019	ug/L		09/11/19 08:35	09/11/19 14:31	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:21	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: RB090319

Date Collected: 09/03/19 11:20

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-15

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.6	U	1.6	0.79	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoropentanoic acid (PFPeA)	1.6	U	1.6	0.49	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorohexanoic acid (PFHxA)	1.6	U	1.6	0.60	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroheptanoic acid (PFHpA)	1.6	U	1.6	0.71	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroctanoic acid (PFOA)	1.6	U	1.6	0.64	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorononanoic acid (PFNA)	1.6	U	1.6	0.21	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorodecanoic acid (PFDA)	1.6	U	1.6	0.60	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroundecanoic acid (PFUnA)	1.6	U	1.6	0.61	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorododecanoic acid (PFDoA)	1.6	U	1.6	0.46	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorotridecanoic acid (PFTriA)	1.6	U	1.6	0.47	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorotetradecanoic acid (PFTeA)	1.6	U	1.6	0.72	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorobutanesulfonic acid (PFBS)	1.6	U	1.6	0.38	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorohexanesulfonic acid (PFHxS)	1.6	U	1.6	0.63	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.6	U	1.6	0.75	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroctanesulfonic acid (PFOS)	1.6	U	1.6	0.48	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluorodecanesulfonic acid (PFDS)	1.6	U	1.6	0.71	ng/L		09/12/19 09:44	09/13/19 19:47	1
Perfluoroctanesulfonamide (PFOSA)	7.9	U	7.9	7.9	ng/L		09/12/19 09:44	09/13/19 19:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	16	U	16	1.3	ng/L		09/12/19 09:44	09/13/19 19:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	16	U	16	1.2	ng/L		09/12/19 09:44	09/13/19 19:47	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	16	U	16	4.3	ng/L		09/12/19 09:44	09/13/19 19:47	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	16	U	16	2.3	ng/L		09/12/19 09:44	09/13/19 19:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	116		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C4 PFHpA	94		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C4 PFOA	96		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C4 PFOS	96		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C5 PFNA	81		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C4 PFBA	102		25 - 150				09/12/19 09:44	09/13/19 19:47	1
13C2 PFHxA	101		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C2 PFDA	90		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C2 PFUnA	74		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C2 PFDoA	77		50 - 150				09/12/19 09:44	09/13/19 19:47	1
13C8 FOSA	52		25 - 150				09/12/19 09:44	09/13/19 19:47	1
13C5 PFPeA	96		25 - 150				09/12/19 09:44	09/13/19 19:47	1
13C2 PFTeDA	58		50 - 150				09/12/19 09:44	09/13/19 19:47	1
d3-NMeFOSAA	79		50 - 150				09/12/19 09:44	09/13/19 19:47	1
d5-NEtFOSAA	66		50 - 150				09/12/19 09:44	09/13/19 19:47	1
M2-6:2 FTS	105		25 - 150				09/12/19 09:44	09/13/19 19:47	1
M2-8:2 FTS	91		25 - 150				09/12/19 09:44	09/13/19 19:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: RB090519

Date Collected: 09/04/19 17:50

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-16

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.8	U	1.8	0.88	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoropentanoic acid (PFPeA)	1.8	U	1.8	0.55	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorohexanoic acid (PFHxA)	1.8	U	1.8	0.67	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroheptanoic acid (PFHpA)	1.8	U	1.8	0.80	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroctanoic acid (PFOA)	1.8	U	1.8	0.71	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorononanoic acid (PFNA)	1.8	U	1.8	0.24	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorodecanoic acid (PFDA)	1.8	U	1.8	0.68	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroundecanoic acid (PFUnA)	1.8	U	1.8	0.69	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorododecanoic acid (PFDoA)	1.8	U	1.8	0.52	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorotridecanoic acid (PFTriA)	1.8	U	1.8	0.53	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorotetradecanoic acid (PFTeA)	1.8	U	1.8	0.81	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorobutanesulfonic acid (PFBS)	1.8	U	1.8	0.43	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorohexanesulfonic acid (PFHxS)	1.8	U	1.8	0.70	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.8	U	1.8	0.84	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroctanesulfonic acid (PFOS)	1.8	U	1.8	0.54	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluorodecanesulfonic acid (PFDS)	1.8	U	1.8	0.79	ng/L		09/12/19 09:44	09/13/19 19:55	1
Perfluoroctanesulfonamide (PFOSA)	8.8	U	8.8	8.8	ng/L		09/12/19 09:44	09/13/19 19:55	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	18	U	18	1.5	ng/L		09/12/19 09:44	09/13/19 19:55	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	18	U	18	1.3	ng/L		09/12/19 09:44	09/13/19 19:55	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	18	U	18	4.8	ng/L		09/12/19 09:44	09/13/19 19:55	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	18	U	18	2.5	ng/L		09/12/19 09:44	09/13/19 19:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	117		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C4 PFHpA	96		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C4 PFOA	99		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C4 PFOS	94		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C5 PFNA	81		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C4 PFBA	103		25 - 150				09/12/19 09:44	09/13/19 19:55	1
13C2 PFHxA	99		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C2 PFDA	81		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C2 PFUnA	77		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C2 PFDoA	67		50 - 150				09/12/19 09:44	09/13/19 19:55	1
13C8 FOSA	57		25 - 150				09/12/19 09:44	09/13/19 19:55	1
13C5 PFPeA	97		25 - 150				09/12/19 09:44	09/13/19 19:55	1
13C2 PFTeDA	52		50 - 150				09/12/19 09:44	09/13/19 19:55	1
d3-NMeFOSAA	78		50 - 150				09/12/19 09:44	09/13/19 19:55	1
d5-NEtFOSAA	68		50 - 150				09/12/19 09:44	09/13/19 19:55	1
M2-6:2 FTS	98		25 - 150				09/12/19 09:44	09/13/19 19:55	1
M2-8:2 FTS	91		25 - 150				09/12/19 09:44	09/13/19 19:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: RB090419

Lab Sample ID: 480-158837-17

Matrix: Water

Date Collected: 09/04/19 17:00

Date Received: 09/06/19 09:15

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.7	U	1.7	0.86	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoropentanoic acid (PFPeA)	1.7	U	1.7	0.54	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorohexanoic acid (PFHxA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroheptanoic acid (PFHpA)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroctanoic acid (PFOA)	1.7	U	1.7	0.70	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorononanoic acid (PFNA)	1.7	U	1.7	0.23	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorodecanoic acid (PFDA)	1.7	U	1.7	0.66	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroundecanoic acid (PFUnA)	1.7	U	1.7	0.67	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorododecanoic acid (PFDoA)	1.7	U	1.7	0.51	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorotridecanoic acid (PFTriA)	1.7	U	1.7	0.52	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorotetradecanoic acid (PFTeA)	1.7	U	1.7	0.79	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorobutanesulfonic acid (PFBS)	1.7	U	1.7	0.42	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	1.7	0.69	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	1.7	0.82	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroctanesulfonic acid (PFOS)	1.7	U	1.7	0.53	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluorodecanesulfonic acid (PFDS)	1.7	U	1.7	0.78	ng/L		09/12/19 09:44	09/13/19 20:03	1
Perfluoroctanesulfonamide (PFOSA)	8.6	U	8.6	8.6	ng/L		09/12/19 09:44	09/13/19 20:03	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17	U	17	1.5	ng/L		09/12/19 09:44	09/13/19 20:03	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17	U	17	1.3	ng/L		09/12/19 09:44	09/13/19 20:03	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17	U	17	4.7	ng/L		09/12/19 09:44	09/13/19 20:03	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	17	2.5	ng/L		09/12/19 09:44	09/13/19 20:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	119		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C4 PFHpA	102		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C4 PFOA	97		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C4 PFOS	93		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C5 PFNA	75		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C4 PFBA	103		25 - 150				09/12/19 09:44	09/13/19 20:03	1
13C2 PFHxA	101		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C2 PFDA	86		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C2 PFUnA	71		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C2 PFDoA	71		50 - 150				09/12/19 09:44	09/13/19 20:03	1
13C8 FOSA	49		25 - 150				09/12/19 09:44	09/13/19 20:03	1
13C5 PFPeA	97		25 - 150				09/12/19 09:44	09/13/19 20:03	1
13C2 PFTeDA	53		50 - 150				09/12/19 09:44	09/13/19 20:03	1
d3-NMeFOSAA	76		50 - 150				09/12/19 09:44	09/13/19 20:03	1
d5-NEtFOSAA	69		50 - 150				09/12/19 09:44	09/13/19 20:03	1
M2-6:2 FTS	105		25 - 150				09/12/19 09:44	09/13/19 20:03	1
M2-8:2 FTS	91		25 - 150				09/12/19 09:44	09/13/19 20:03	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB (80-120)	DCZ (80-120)
480-158837-1	TB09032019	100	100
480-158837-2	CTLMW102-090319	100	102
480-158837-2 MS	CTLMW102-090319	100	100
480-158837-2 MSD	CTLMW102-090319	102	101
480-158837-3	CTLMW102I-090319	101	101
480-158837-4	CTLMW13-090419	101	97
480-158837-5	CTLMW117I-090419	100	100
480-158837-6	CTLMW117S-090419	100	103
480-158837-7	CTLMW117D-090419	99	101
480-158837-8	CTLMW113S-090519	102	100
480-158837-9	CTLMW112S-090519	100	102
480-158837-10	CTLMW112S-090519Q	99	102
480-158837-11	CTLMW118S-090519	102	102
480-158837-12	CTLMW114S-090519	99	99
480-158837-13	CTLMW115S-090519	100	99
480-158837-14	CTLMW116S-090519	99	102
LCS 480-491376/4	Lab Control Sample	103	97
LCSD 480-491376/5	Lab Control Sample Dup	102	99
LLCS 480-491376/6	Lab Control Sample	100	99
MB 480-491376/7	Method Blank	98	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DCZ = 1,2-Dichlorobenzene-d4

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)												
480-158837-2	CTLMW102-090319	29												
480-158837-2 MS	CTLMW102-090319	29												
480-158837-2 MSD	CTLMW102-090319	29												
480-158837-3	CTLMW102I-090319	29												
480-158837-4	CTLMW13-090419	26												
480-158837-5	CTLMW117I-090419	25												
480-158837-6	CTLMW117S-090419	25												
480-158837-7	CTLMW117D-090419	27												
480-158837-8	CTLMW113S-090519	28												
480-158837-9	CTLMW112S-090519	26												
480-158837-10	CTLMW112S-090519Q	27												
480-158837-11	CTLMW118S-090519	29												
480-158837-12	CTLMW114S-090519	27												
480-158837-13	CTLMW115S-090519	35												
480-158837-14	CTLMW116S-090519	30												
LCS 480-491258/2-A	Lab Control Sample	28												
MB 480-491258/1-A	Method Blank	28												

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFHxS (50-150)	PFHpA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-158837-2	CTLMW102-090319	122	94	87	90	77	100	98	81
480-158837-2 MS	CTLMW102-090319	120	91	89	95	80	98	99	82
480-158837-2 MSD	CTLMW102-090319	129	89	88	95	78	98	94	82
480-158837-3	CTLMW102I-090319	116	94	94	92	81	79	92	79
480-158837-4	CTLMW13-090419	113	90	83	87	71	106	90	79
480-158837-5	CTLMW117I-090419	115	103	99	93	89	24 *	115	88
480-158837-6	CTLMW117S-090419	125	93	96	96	76	79	100	77
480-158837-7	CTLMW117D-090419	114	98	98	95	102	14 *	90	102
480-158837-8	CTLMW113S-090519	120	79	78	99	66	73	79	76
480-158837-9	CTLMW112S-090519	115	85	88	94	80	67	88	86
480-158837-10	CTLMW112S-090519Q	122	83	80	95	76	71	81	84
480-158837-11	CTLMW118S-090519	118	96	95	94	79	71	97	77
480-158837-12	CTLMW114S-090519	120	96	95	94	82	76	98	92
480-158837-13	CTLMW115S-090519	116	99	91	88	76	92	95	80
480-158837-14	CTLMW116S-090519	115	86	85	93	74	74	87	69
480-158837-15	RB090319	116	94	96	96	81	102	101	90
480-158837-16	RB090519	117	96	99	94	81	103	99	81
480-158837-17	RB090419	119	102	97	93	75	103	101	86
LCS 200-147232/2-A	Lab Control Sample	120	99	101	98	89	102	103	85
MB 200-147232/1-A	Method Blank	125	103	101	106	86	104	108	86

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Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	J-NMeFOSA (50-150)	5-NEtFOSA (50-150)	M262FTS (25-150)
480-158837-2	CTLMW102-090319	76	77	62	89	55	67	61	108
480-158837-2 MS	CTLMW102-090319	74	87	69	89	63	80	66	110
480-158837-2 MSD	CTLMW102-090319	74	79	66	93	62	80	65	112
480-158837-3	CTLMW102I-090319	71	75	68	78	57	69	61	104
480-158837-4	CTLMW13-090419	76	92	66	81	60	72	64	106
480-158837-5	CTLMW117I-090419	75	76	88	97	62	74	66	107
480-158837-6	CTLMW117S-090419	73	79	72	83	66	76	67	121
480-158837-7	CTLMW117D-090419	141	84	92	47	59	76	300 *	123
480-158837-8	CTLMW113S-090519	78	98	61	71	55	70	63	112
480-158837-9	CTLMW112S-090519	90	91	63	74	64	72	61	119
480-158837-10	CTLMW112S-090519Q	90	96	68	72	59	70	67	117
480-158837-11	CTLMW118S-090519	65	43 *	76	84	29 *	70	58	106
480-158837-12	CTLMW114S-090519	80	78	92	87	46 *	64	56	108
480-158837-13	CTLMW115S-090519	77	87	62	87	61	71	60	114
480-158837-14	CTLMW116S-090519	62	61	63	76	44 *	63	57	100
480-158837-15	RB090319	74	77	52	96	58	79	66	105
480-158837-16	RB090519	77	67	57	97	52	78	68	98
480-158837-17	RB090419	71	71	49	97	53	76	69	105
LCS 200-147232/2-A	Lab Control Sample	76	73	57	98	58	79	63	106
MB 200-147232/1-A	Method Blank	86	83	52	100	63	83	69	109
Percent Isotope Dilution Recovery (Acceptance Limits)									
M282FTS									
Lab Sample ID	Client Sample ID	(25-150)	-----	-----	-----	-----	-----	-----	-----
480-158837-2	CTLMW102-090319	94	-----	-----	-----	-----	-----	-----	-----
480-158837-2 MS	CTLMW102-090319	102	-----	-----	-----	-----	-----	-----	-----
480-158837-2 MSD	CTLMW102-090319	101	-----	-----	-----	-----	-----	-----	-----
480-158837-3	CTLMW102I-090319	86	-----	-----	-----	-----	-----	-----	-----
480-158837-4	CTLMW13-090419	107	-----	-----	-----	-----	-----	-----	-----
480-158837-5	CTLMW117I-090419	101	-----	-----	-----	-----	-----	-----	-----
480-158837-6	CTLMW117S-090419	93	-----	-----	-----	-----	-----	-----	-----
480-158837-7	CTLMW117D-090419	148	-----	-----	-----	-----	-----	-----	-----
480-158837-8	CTLMW113S-090519	98	-----	-----	-----	-----	-----	-----	-----
480-158837-9	CTLMW112S-090519	118	-----	-----	-----	-----	-----	-----	-----
480-158837-10	CTLMW112S-090519Q	117	-----	-----	-----	-----	-----	-----	-----
480-158837-11	CTLMW118S-090519	89	-----	-----	-----	-----	-----	-----	-----
480-158837-12	CTLMW114S-090519	110	-----	-----	-----	-----	-----	-----	-----
480-158837-13	CTLMW115S-090519	111	-----	-----	-----	-----	-----	-----	-----
480-158837-14	CTLMW116S-090519	88	-----	-----	-----	-----	-----	-----	-----
480-158837-15	RB090319	91	-----	-----	-----	-----	-----	-----	-----
480-158837-16	RB090519	91	-----	-----	-----	-----	-----	-----	-----
480-158837-17	RB090419	91	-----	-----	-----	-----	-----	-----	-----
LCS 200-147232/2-A	Lab Control Sample	95	-----	-----	-----	-----	-----	-----	-----
MB 200-147232/1-A	Method Blank	97	-----	-----	-----	-----	-----	-----	-----

Surrogate Legend

PFHxS = 18O2 PFHxS

PFHpA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFOS = 13C4 PFOS

PFNA = 13C5 PFNA

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-158837-1

Project/Site: Carroll Town Landfill Site

PFBA = 13C4 PFBA

PFHxA = 13C2 PFHxA

PFDA = 13C2 PFDA

PFUnA = 13C2 PFUnA

PFDoA = 13C2 PFDoA

PFOSA = 13C8 FOSA

PPPeA = 13C5 PPPeA

PFTDA = 13C2 PFTDA

d3-NMeFOSAA = d3-NMeFOSAA

d5-NEtFOSAA = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-491376/7

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 12:25	1
1,1,1-Trichloroethane	0.50	U	0.50	0.21	ug/L			09/11/19 12:25	1
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.070	ug/L			09/11/19 12:25	1
1,1,2-Trichloroethane	0.50	U	0.50	0.17	ug/L			09/11/19 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	0.17	ug/L			09/11/19 12:25	1
1,1-Dichloroethane	0.50	U	0.50	0.18	ug/L			09/11/19 12:25	1
1,1-Dichloroethene	0.50	U	0.50	0.16	ug/L			09/11/19 12:25	1
1,1-Dichloropropene	0.50	U	0.50	0.063	ug/L			09/11/19 12:25	1
1,2,3-Trichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 12:25	1
1,2,3-Trichloropropane	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
1,2,4-Trimethylbenzene	0.50	U	0.50	0.090	ug/L			09/11/19 12:25	1
1,2-Dichlorobenzene	0.50	U	0.50	0.16	ug/L			09/11/19 12:25	1
1,2-Dichloroethane	0.50	U	0.50	0.14	ug/L			09/11/19 12:25	1
1,2-Dichloropropane	0.50	U	0.50	0.11	ug/L			09/11/19 12:25	1
1,3,5-Trimethylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
1,3-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
1,3-Dichloropropane	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
1,4-Dichlorobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
2,2-Dichloropropane	0.50	U	0.50	0.35	ug/L			09/11/19 12:25	1
2-Butanone (MEK)	5.0	U	5.0	1.0	ug/L			09/11/19 12:25	1
2-Chlorotoluene	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
2-Hexanone	5.0	U	5.0	1.0	ug/L			09/11/19 12:25	1
4-Chlorotoluene	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
4-Isopropyltoluene	0.50	U	0.50	0.063	ug/L			09/11/19 12:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.0	ug/L			09/11/19 12:25	1
Acetone	5.0	U	5.0	1.0	ug/L			09/11/19 12:25	1
Acrylonitrile	10	U	10	2.2	ug/L			09/11/19 12:25	1
Allyl chloride	0.50	U	0.50	0.22	ug/L			09/11/19 12:25	1
Benzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
Bromobenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
Bromochloromethane	0.50	U	0.50	0.11	ug/L			09/11/19 12:25	1
Dichlorobromomethane	0.50	U	0.50	0.14	ug/L			09/11/19 12:25	1
Bromoform	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
Bromomethane	0.50	U	0.50	0.23	ug/L			09/11/19 12:25	1
Carbon disulfide	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
Carbon tetrachloride	0.50	U	0.50	0.21	ug/L			09/11/19 12:25	1
Chlorobenzene	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
Chlorodibromomethane	0.50	U	0.50	0.16	ug/L			09/11/19 12:25	1
Chloroethane	0.50	U	0.50	0.20	ug/L			09/11/19 12:25	1
Chloroform	0.50	U	0.50	0.14	ug/L			09/11/19 12:25	1
Chloromethane	0.50	U	0.50	0.17	ug/L			09/11/19 12:25	1
cis-1,2-Dichloroethene	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
cis-1,3-Dichloropropene	0.50	U	0.50	0.080	ug/L			09/11/19 12:25	1
Dibromomethane	0.50	U	0.50	0.17	ug/L			09/11/19 12:25	1
Dichlorodifluoromethane	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
Ethyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
Ethylbenzene	0.50	U	0.50	0.11	ug/L			09/11/19 12:25	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-491376/7

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	0.50	U	0.50	0.11	ug/L			09/11/19 12:25	1
Iodomethane	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
Isopropylbenzene	0.50	U	0.50	0.16	ug/L			09/11/19 12:25	1
Methyl tert-butyl ether	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
Methylene Chloride	2.5	U	2.5	0.99	ug/L			09/11/19 12:25	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			09/11/19 12:25	1
Naphthalene	0.50	U	0.50	0.15	ug/L			09/11/19 12:25	1
n-Butylbenzene	0.50	U	0.50	0.081	ug/L			09/11/19 12:25	1
N-Propylbenzene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
o-Xylene	0.50	U	0.50	0.12	ug/L			09/11/19 12:25	1
sec-Butylbenzene	0.50	U	0.50	0.068	ug/L			09/11/19 12:25	1
Styrene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
t-Butanol	10	U	10	2.5	ug/L			09/11/19 12:25	1
tert-Butylbenzene	0.50	U	0.50	0.060	ug/L			09/11/19 12:25	1
Tetrachloroethene	0.50	U	0.50	0.20	ug/L			09/11/19 12:25	1
Toluene	0.50	U	0.50	0.10	ug/L			09/11/19 12:25	1
trans-1,2-Dichloroethene	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1
trans-1,3-Dichloropropene	0.50	U	0.50	0.10	ug/L			09/11/19 12:25	1
trans-1,4-Dichloro-2-butene	2.5	U	2.5	1.3	ug/L			09/11/19 12:25	1
Trichloroethene	0.50	U	0.50	0.18	ug/L			09/11/19 12:25	1
Trichlorofluoromethane	0.50	U	0.50	0.19	ug/L			09/11/19 12:25	1
Vinyl acetate	2.5	U	2.5	0.45	ug/L			09/11/19 12:25	1
Vinyl chloride	0.50	U	0.50	0.18	ug/L			09/11/19 12:25	1
Xylenes, Total	1.0	U	1.0	0.12	ug/L			09/11/19 12:25	1
Trihalomethanes, Total	2.0	U	2.0	1.0	ug/L			09/11/19 12:25	1
Dichlorofluoromethane	0.50	U	0.50	0.13	ug/L			09/11/19 12:25	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		80 - 120		09/11/19 12:25	1
1,2-Dichlorobenzene-d4	99		80 - 120		09/11/19 12:25	1

Lab Sample ID: LCS 480-491376/4

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	4.00	3.76		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.74		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.81		ug/L		95	70 - 130
1,1,2-Trichloroethane	4.00	3.75		ug/L		94	70 - 130
1,1-Dichloroethane	4.00	3.70		ug/L		92	70 - 130
1,1-Dichloroethene	4.00	3.49		ug/L		87	70 - 130
1,1-Dichloropropene	4.00	3.75		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	4.00	3.66		ug/L		91	70 - 130
1,2,3-Trichloropropane	4.00	3.93		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	4.00	3.71		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	4.00	3.70		ug/L		92	70 - 130
1,2-Dichlorobenzene	4.00	3.83		ug/L		96	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-491376/4

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
1,2-Dichloroethane	4.00	3.88		ug/L	97	70 - 130		
1,2-Dichloropropane	4.00	3.69		ug/L	92	70 - 130		
1,3,5-Trimethylbenzene	4.00	3.70		ug/L	93	70 - 130		
1,3-Dichlorobenzene	4.00	3.79		ug/L	95	70 - 130		
1,3-Dichloropropane	4.00	3.89		ug/L	97	70 - 130		
1,4-Dichlorobenzene	4.00	3.71		ug/L	93	70 - 130		
2,2-Dichloropropane	4.00	3.79		ug/L	95	70 - 130		
2-Butanone (MEK)	20.0	19.0		ug/L	95	70 - 130		
2-Chlorotoluene	4.00	3.69		ug/L	92	70 - 130		
2-Hexanone	20.0	20.2		ug/L	101	70 - 130		
4-Chlorotoluene	4.00	3.74		ug/L	93	70 - 130		
4-Isopropyltoluene	4.00	3.73		ug/L	93	70 - 130		
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L	99	70 - 130		
Acetone	20.0	18.5		ug/L	92	70 - 130		
Benzene	4.00	3.78		ug/L	95	70 - 130		
Bromobenzene	4.00	3.63		ug/L	91	70 - 130		
Bromochloromethane	4.00	3.75		ug/L	94	70 - 130		
Dichlorobromomethane	4.00	3.63		ug/L	91	70 - 130		
Bromoform	4.00	3.75		ug/L	94	70 - 130		
Bromomethane	4.00	3.64		ug/L	91	70 - 130		
Carbon disulfide	4.00	3.87		ug/L	97	70 - 130		
Carbon tetrachloride	4.00	3.67		ug/L	92	70 - 130		
Chlorobenzene	4.00	3.75		ug/L	94	70 - 130		
Chlorodibromomethane	4.00	3.76		ug/L	94	70 - 130		
Chloroethane	4.00	3.50		ug/L	88	70 - 130		
Chloroform	4.00	3.65		ug/L	91	70 - 130		
Chloromethane	4.00	3.98		ug/L	100	70 - 130		
cis-1,2-Dichloroethene	4.00	3.67		ug/L	92	70 - 130		
cis-1,3-Dichloropropene	4.00	3.72		ug/L	93	70 - 130		
Dibromomethane	4.00	3.79		ug/L	95	70 - 130		
Dichlorodifluoromethane	4.00	4.46		ug/L	111	70 - 130		
Ethylbenzene	4.00	3.73		ug/L	93	70 - 130		
Hexachlorobutadiene	4.00	3.64		ug/L	91	70 - 130		
Isopropylbenzene	4.00	3.68		ug/L	92	70 - 130		
Methyl tert-butyl ether	4.00	3.82		ug/L	95	70 - 130		
Methylene Chloride	4.00	3.85		ug/L	96	70 - 130		
Naphthalene	4.00	3.84		ug/L	96	70 - 130		
n-Butylbenzene	4.00	3.67		ug/L	92	70 - 130		
N-Propylbenzene	4.00	3.74		ug/L	94	70 - 130		
sec-Butylbenzene	4.00	3.69		ug/L	92	70 - 130		
Styrene	4.00	3.74		ug/L	94	70 - 130		
tert-Butylbenzene	4.00	3.71		ug/L	93	70 - 130		
Tetrachloroethene	4.00	3.68		ug/L	92	70 - 130		
Toluene	4.00	3.75		ug/L	94	70 - 130		
trans-1,2-Dichloroethene	4.00	3.58		ug/L	89	70 - 130		
trans-1,3-Dichloropropene	4.00	3.87		ug/L	97	70 - 130		
Trichloroethene	4.00	3.76		ug/L	94	70 - 130		
Trichlorofluoromethane	4.00	3.78		ug/L	95	70 - 130		
Vinyl chloride	4.00	3.86		ug/L	97	70 - 130		

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-491376/4

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Xylenes, Total	8.00	7.49		ug/L		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				Limits
4-Bromofluorobenzene (Surr)	103		80 - 120				
1,2-Dichlorobenzene-d4	97		80 - 120				

Lab Sample ID: LCSD 480-491376/5

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
1,1,1,2-Tetrachloroethane	4.00	3.81		ug/L		95	70 - 130	1	20	
1,1,1-Trichloroethane	4.00	3.58		ug/L		89	70 - 130	4	20	
1,1,2,2-Tetrachloroethane	4.00	3.74		ug/L		93	70 - 130	2	20	
1,1,2-Trichloroethane	4.00	3.84		ug/L		96	70 - 130	3	20	
1,1-Dichloroethane	4.00	3.79		ug/L		95	70 - 130	2	20	
1,1-Dichloroethene	4.00	3.68		ug/L		92	70 - 130	5	20	
1,1-Dichloropropene	4.00	3.71		ug/L		93	70 - 130	1	20	
1,2,3-Trichlorobenzene	4.00	3.75		ug/L		94	70 - 130	3	20	
1,2,3-Trichloropropane	4.00	3.77		ug/L		94	70 - 130	4	20	
1,2,4-Trichlorobenzene	4.00	3.71		ug/L		93	70 - 130	0	20	
1,2,4-Trimethylbenzene	4.00	3.68		ug/L		92	70 - 130	0	20	
1,2-Dichlorobenzene	4.00	3.84		ug/L		96	70 - 130	0	20	
1,2-Dichloroethane	4.00	3.80		ug/L		95	70 - 130	2	20	
1,2-Dichloropropane	4.00	3.81		ug/L		95	70 - 130	3	20	
1,3,5-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130	2	20	
1,3-Dichlorobenzene	4.00	3.77		ug/L		94	70 - 130	0	20	
1,3-Dichloropropane	4.00	3.98		ug/L		100	70 - 130	2	20	
1,4-Dichlorobenzene	4.00	3.74		ug/L		93	70 - 130	1	20	
2,2-Dichloropropane	4.00	3.71		ug/L		93	70 - 130	2	20	
2-Butanone (MEK)	20.0	18.7		ug/L		94	70 - 130	2	20	
2-Chlorotoluene	4.00	3.73		ug/L		93	70 - 130	1	20	
2-Hexanone	20.0	20.0		ug/L		100	70 - 130	1	20	
4-Chlorotoluene	4.00	3.80		ug/L		95	70 - 130	2	20	
4-Isopropyltoluene	4.00	3.73		ug/L		93	70 - 130	0	20	
4-Methyl-2-pentanone (MIBK)	20.0	19.8		ug/L		99	70 - 130	0	20	
Acetone	20.0	17.7		ug/L		88	70 - 130	4	20	
Benzene	4.00	3.75		ug/L		94	70 - 130	1	20	
Bromobenzene	4.00	3.70		ug/L		92	70 - 130	2	20	
Bromochloromethane	4.00	3.75		ug/L		94	70 - 130	0	20	
Dichlorobromomethane	4.00	3.75		ug/L		94	70 - 130	3	20	
Bromoform	4.00	3.66		ug/L		91	70 - 130	3	20	
Bromomethane	4.00	3.74		ug/L		93	70 - 130	3	20	
Carbon disulfide	4.00	3.93		ug/L		98	70 - 130	1	20	
Carbon tetrachloride	4.00	3.78		ug/L		95	70 - 130	3	20	
Chlorobenzene	4.00	3.83		ug/L		96	70 - 130	2	20	
Chlorodibromomethane	4.00	3.84		ug/L		96	70 - 130	2	20	
Chloroethane	4.00	3.66		ug/L		92	70 - 130	4	20	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-491376/5

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Chloroform	4.00	3.65		ug/L		91	70 - 130	0	20
Chloromethane	4.00	4.12		ug/L		103	70 - 130	3	20
cis-1,2-Dichloroethene	4.00	3.71		ug/L		93	70 - 130	1	20
cis-1,3-Dichloropropene	4.00	3.80		ug/L		95	70 - 130	2	20
Dibromomethane	4.00	3.86		ug/L		96	70 - 130	2	20
Dichlorodifluoromethane	4.00	4.52		ug/L		113	70 - 130	1	20
Ethylbenzene	4.00	3.85		ug/L		96	70 - 130	3	20
Hexachlorobutadiene	4.00	3.68		ug/L		92	70 - 130	1	20
Isopropylbenzene	4.00	3.76		ug/L		94	70 - 130	2	20
Methyl tert-butyl ether	4.00	3.78		ug/L		94	70 - 130	1	20
Methylene Chloride	4.00	3.96		ug/L		99	70 - 130	3	20
Naphthalene	4.00	3.78		ug/L		95	70 - 130	2	20
n-Butylbenzene	4.00	3.70		ug/L		93	70 - 130	1	20
N-Propylbenzene	4.00	3.80		ug/L		95	70 - 130	2	20
sec-Butylbenzene	4.00	3.80		ug/L		95	70 - 130	3	20
Styrene	4.00	3.84		ug/L		96	70 - 130	3	20
tert-Butylbenzene	4.00	3.78		ug/L		95	70 - 130	2	20
Tetrachloroethene	4.00	3.88		ug/L		97	70 - 130	5	20
Toluene	4.00	3.84		ug/L		96	70 - 130	2	20
trans-1,2-Dichloroethene	4.00	3.66		ug/L		91	70 - 130	2	20
trans-1,3-Dichloropropene	4.00	4.04		ug/L		101	70 - 130	4	20
Trichloroethene	4.00	3.91		ug/L		98	70 - 130	4	20
Trichlorofluoromethane	4.00	3.88		ug/L		97	70 - 130	3	20
Vinyl chloride	4.00	3.89		ug/L		97	70 - 130	1	20
Xylenes, Total	8.00	7.71		ug/L		96	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
1,2-Dichlorobenzene-d4	99		80 - 120

Lab Sample ID: LLCS 480-491376/6

Matrix: Water

Analysis Batch: 491376

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
1,1,1,2-Tetrachloroethane	0.500	0.462	J	ug/L		92	50 - 150
1,1,1-Trichloroethane	0.500	0.481	J	ug/L		96	50 - 150
1,1,2,2-Tetrachloroethane	0.500	0.485	J	ug/L		97	50 - 150
1,1,2-Trichloroethane	0.500	0.474	J	ug/L		95	50 - 150
1,1-Dichloroethane	0.500	0.522		ug/L		104	50 - 150
1,1-Dichloroethene	0.500	0.496	J	ug/L		99	50 - 150
1,1-Dichloropropene	0.500	0.507		ug/L		101	50 - 150
1,2,3-Trichlorobenzene	0.500	0.484	J	ug/L		97	50 - 150
1,2,3-Trichloropropane	0.500	0.475	J	ug/L		95	50 - 150
1,2,4-Trichlorobenzene	0.500	0.513		ug/L		103	50 - 150
1,2,4-Trimethylbenzene	0.500	0.488	J	ug/L		98	50 - 150
1,2-Dichlorobenzene	0.500	0.535		ug/L		107	50 - 150
1,2-Dichloroethane	0.500	0.529		ug/L		106	50 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-491376/6

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Matrix: Water

Analysis Batch: 491376

Analyte	Spike	LLCS	LLCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier				Limits	
1,2-Dichloropropane	0.500	0.474	J	ug/L		95	50 - 150	
1,3,5-Trimethylbenzene	0.500	0.479	J	ug/L		96	50 - 150	
1,3-Dichlorobenzene	0.500	0.500		ug/L		100	50 - 150	
1,3-Dichloropropane	0.500	0.496	J	ug/L		99	50 - 150	
1,4-Dichlorobenzene	0.500	0.485	J	ug/L		97	50 - 150	
2,2-Dichloropropane	0.500	0.606		ug/L		121	50 - 150	
2-Butanone (MEK)	2.50	2.52	J	ug/L		101	50 - 150	
2-Chlorotoluene	0.500	0.491	J	ug/L		98	50 - 150	
2-Hexanone	2.50	2.44	J	ug/L		98	50 - 150	
4-Chlorotoluene	0.500	0.496	J	ug/L		99	50 - 150	
4-Isopropyltoluene	0.500	0.476	J	ug/L		95	50 - 150	
4-Methyl-2-pentanone (MIBK)	2.50	2.54	J	ug/L		102	50 - 150	
Acetone	2.50	2.45	J	ug/L		98	50 - 150	
Benzene	0.500	0.500		ug/L		100	50 - 150	
Bromobenzene	0.500	0.497	J	ug/L		99	50 - 150	
Bromochloromethane	0.500	0.512		ug/L		102	50 - 150	
Dichlorobromomethane	0.500	0.449	J	ug/L		90	50 - 150	
Bromoform	0.500	0.416	J	ug/L		83	50 - 150	
Bromomethane	0.500	0.553		ug/L		111	50 - 150	
Carbon disulfide	0.500	0.543		ug/L		109	50 - 150	
Carbon tetrachloride	0.500	0.481	J	ug/L		96	50 - 150	
Chlorobenzene	0.500	0.493	J	ug/L		99	50 - 150	
Chlorodibromomethane	0.500	0.434	J	ug/L		87	50 - 150	
Chloroethane	0.500	0.541		ug/L		108	50 - 150	
Chloroform	0.500	0.561		ug/L		112	50 - 150	
Chloromethane	0.500	0.487	J	ug/L		97	50 - 150	
cis-1,2-Dichloroethene	0.500	0.502		ug/L		100	50 - 150	
cis-1,3-Dichloropropene	0.500	0.452	J	ug/L		90	50 - 150	
Dibromomethane	0.500	0.487	J	ug/L		97	50 - 150	
Dichlorodifluoromethane	0.500	0.560		ug/L		112	50 - 150	
Ethylbenzene	0.500	0.487	J	ug/L		97	50 - 150	
Hexachlorobutadiene	0.500	0.497	J	ug/L		99	50 - 150	
Isopropylbenzene	0.500	0.499	J	ug/L		100	50 - 150	
Methyl tert-butyl ether	0.500	0.499	J	ug/L		100	50 - 150	
Methylene Chloride	0.500	2.5	U *	ug/L		195	50 - 150	
Naphthalene	0.500	0.499	J	ug/L		100	50 - 150	
n-Butylbenzene	0.500	0.487	J	ug/L		97	50 - 150	
N-Propylbenzene	0.500	0.499	J	ug/L		100	50 - 150	
sec-Butylbenzene	0.500	0.484	J	ug/L		97	50 - 150	
Styrene	0.500	0.464	J	ug/L		93	50 - 150	
tert-Butylbenzene	0.500	0.499	J	ug/L		100	50 - 150	
Tetrachloroethene	0.500	0.476	J	ug/L		95	50 - 150	
Toluene	0.500	0.518		ug/L		104	50 - 150	
trans-1,2-Dichloroethene	0.500	0.480	J	ug/L		96	50 - 150	
trans-1,3-Dichloropropene	0.500	0.462	J	ug/L		92	50 - 150	
Trichloroethene	0.500	0.500		ug/L		100	50 - 150	
Trichlorofluoromethane	0.500	0.505		ug/L		101	50 - 150	
Vinyl chloride	0.500	0.544		ug/L		109	50 - 150	
Xylenes, Total	1.00	0.988	J	ug/L		99	50 - 150	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
4-Bromofluorobenzene (Surf)	100		80 - 120
1,2-Dichlorobenzene-d4	99		80 - 120

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 491376

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
									Limits
1,1,1,2-Tetrachloroethane	0.50	U	4.00	4.43		ug/L	111	70 - 130	
1,1,1-Trichloroethane	0.50	U	4.00	4.58		ug/L	114	70 - 130	
1,1,2,2-Tetrachloroethane	0.50	U	4.00	4.45		ug/L	111	70 - 130	
1,1,2-Trichloroethane	0.50	U	4.00	4.51		ug/L	113	70 - 130	
1,1-Dichloroethane	0.50	U	4.00	4.53		ug/L	113	70 - 130	
1,1-Dichloroethene	0.50	U	4.00	4.48		ug/L	112	70 - 130	
1,1-Dichloropropene	0.50	U	4.00	4.55		ug/L	114	70 - 130	
1,2,3-Trichlorobenzene	0.50	U	4.00	4.34		ug/L	108	70 - 130	
1,2,3-Trichloropropane	0.50	U	4.00	4.46		ug/L	112	70 - 130	
1,2,4-Trichlorobenzene	0.50	U	4.00	4.27		ug/L	107	70 - 130	
1,2,4-Trimethylbenzene	0.50	U	4.00	4.22		ug/L	106	70 - 130	
1,2-Dichlorobenzene	0.50	U	4.00	4.49		ug/L	112	70 - 130	
1,2-Dichloroethane	0.50	U	4.00	4.64		ug/L	116	70 - 130	
1,2-Dichloropropene	0.50	U	4.00	4.51		ug/L	113	70 - 130	
1,3,5-Trimethylbenzene	0.50	U	4.00	4.34		ug/L	108	70 - 130	
1,3-Dichlorobenzene	0.50	U	4.00	4.44		ug/L	111	70 - 130	
1,3-Dichloropropane	0.50	U	4.00	4.67		ug/L	117	70 - 130	
1,4-Dichlorobenzene	0.50	U	4.00	4.35		ug/L	109	70 - 130	
2,2-Dichloropropane	0.50	U	4.00	4.17		ug/L	104	70 - 130	
2-Butanone (MEK)	5.0	U	20.0	21.1		ug/L	105	70 - 130	
2-Chlorotoluene	0.50	U	4.00	4.34		ug/L	108	70 - 130	
2-Hexanone	5.0	U	20.0	22.9		ug/L	115	70 - 130	
4-Chlorotoluene	0.50	U	4.00	4.44		ug/L	111	70 - 130	
4-Isopropyltoluene	0.50	U	4.00	4.27		ug/L	107	70 - 130	
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	22.6		ug/L	113	70 - 130	
Acetone	1.3	J	20.0	19.9		ug/L	93	70 - 130	
Benzene	0.50	U	4.00	4.63		ug/L	116	70 - 130	
Bromobenzene	0.50	U	4.00	4.32		ug/L	108	70 - 130	
Bromoform	0.50	U	4.00	4.73		ug/L	118	70 - 130	
Dichlorobromomethane	0.50	U	4.00	4.17		ug/L	104	70 - 130	
Bromoform	0.50	U	4.00	3.82		ug/L	96	70 - 130	
Bromomethane	0.50	U	4.00	4.95		ug/L	124	70 - 130	
Carbon disulfide	0.50	U	4.00	4.47		ug/L	112	70 - 130	
Carbon tetrachloride	0.50	U	4.00	4.47		ug/L	112	70 - 130	
Chlorobenzene	0.50	U	4.00	4.55		ug/L	114	70 - 130	
Chlorodibromomethane	0.50	U	4.00	4.15		ug/L	104	70 - 130	
Chloroethane	0.50	U	4.00	4.61		ug/L	115	70 - 130	
Chloroform	0.50	U	4.00	4.47		ug/L	112	70 - 130	
Chloromethane	0.50	U	4.00	4.90		ug/L	122	70 - 130	
cis-1,2-Dichloroethene	5.1		4.00	9.49		ug/L	111	70 - 130	
cis-1,3-Dichloropropene	0.50	U	4.00	4.17		ug/L	104	70 - 130	
Dibromomethane	0.50	U	4.00	4.45		ug/L	111	70 - 130	
Dichlorodifluoromethane	0.50	U F1	4.00	5.14		ug/L	129	70 - 130	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 491376

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Ethylbenzene	0.50	U	4.00	4.44		ug/L	111	70 - 130	
Hexachlorobutadiene	0.50	U	4.00	4.10		ug/L	102	70 - 130	
Isopropylbenzene	0.50	U	4.00	4.36		ug/L	109	70 - 130	
Methyl tert-butyl ether	0.50	U	4.00	4.35		ug/L	109	70 - 130	
Methylene Chloride	2.5	U *	4.00	4.13		ug/L	103	70 - 130	
Naphthalene	0.50	U	4.00	4.32		ug/L	108	70 - 130	
n-Butylbenzene	0.50	U	4.00	4.27		ug/L	107	70 - 130	
N-Propylbenzene	0.50	U	4.00	4.41		ug/L	110	70 - 130	
sec-Butylbenzene	0.50	U	4.00	4.30		ug/L	107	70 - 130	
Styrene	0.50	U	4.00	4.36		ug/L	109	70 - 130	
tert-Butylbenzene	0.50	U	4.00	4.21		ug/L	105	70 - 130	
Tetrachloroethene	0.50	U	4.00	4.56		ug/L	114	70 - 130	
Toluene	0.50	U	4.00	4.46		ug/L	112	70 - 130	
trans-1,2-Dichloroethene	0.50	U	4.00	4.54		ug/L	113	70 - 130	
trans-1,3-Dichloropropene	0.50	U	4.00	4.34		ug/L	109	70 - 130	
Trichloroethene	0.89		4.00	5.45		ug/L	114	70 - 130	
Trichlorofluoromethane	0.50	U	4.00	4.67		ug/L	117	70 - 130	
Vinyl chloride	0.49	J	4.00	5.30		ug/L	120	70 - 130	
Xylenes, Total	1.0	U	8.00	8.90		ug/L	111	70 - 130	
Surrogate		MS	MS						
		%Recovery	Qualifier		Limits				
4-Bromofluorobenzene (Surr)		100			80 - 120				
1,2-Dichlorobenzene-d4		100			80 - 120				

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 491376

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,1,1,2-Tetrachloroethane	0.50	U	4.00	3.92		ug/L	98	70 - 130	12	20	
1,1,1-Trichloroethane	0.50	U	4.00	4.03		ug/L	101	70 - 130	13	20	
1,1,2,2-Tetrachloroethane	0.50	U	4.00	4.05		ug/L	101	70 - 130	9	20	
1,1,2-Trichloroethane	0.50	U	4.00	4.10		ug/L	103	70 - 130	9	20	
1,1-Dichloroethane	0.50	U	4.00	4.05		ug/L	101	70 - 130	11	20	
1,1-Dichloroethene	0.50	U	4.00	3.95		ug/L	99	70 - 130	13	20	
1,1-Dichloropropene	0.50	U	4.00	4.11		ug/L	103	70 - 130	10	20	
1,2,3-Trichlorobenzene	0.50	U	4.00	3.87		ug/L	97	70 - 130	12	20	
1,2,3-Trichloropropane	0.50	U	4.00	4.01		ug/L	100	70 - 130	11	20	
1,2,4-Trichlorobenzene	0.50	U	4.00	3.77		ug/L	94	70 - 130	12	20	
1,2,4-Trimethylbenzene	0.50	U	4.00	3.86		ug/L	97	70 - 130	9	20	
1,2-Dichlorobenzene	0.50	U	4.00	4.16		ug/L	104	70 - 130	8	20	
1,2-Dichloroethane	0.50	U	4.00	4.04		ug/L	101	70 - 130	14	20	
1,2-Dichloropropane	0.50	U	4.00	4.17		ug/L	104	70 - 130	8	20	
1,3,5-Trimethylbenzene	0.50	U	4.00	3.94		ug/L	98	70 - 130	10	20	
1,3-Dichlorobenzene	0.50	U	4.00	4.15		ug/L	104	70 - 130	7	20	
1,3-Dichloropropane	0.50	U	4.00	4.28		ug/L	107	70 - 130	9	20	
1,4-Dichlorobenzene	0.50	U	4.00	4.00		ug/L	100	70 - 130	9	20	
2,2-Dichloropropane	0.50	U	4.00	3.64		ug/L	91	70 - 130	14	20	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 491376

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
2-Butanone (MEK)	5.0	U	20.0	18.4		ug/L	92	70 - 130	14	20	
2-Chlorotoluene	0.50	U	4.00	4.05		ug/L	101	70 - 130	7	20	
2-Hexanone	5.0	U	20.0	20.6		ug/L	103	70 - 130	11	20	
4-Chlorotoluene	0.50	U	4.00	4.03		ug/L	101	70 - 130	10	20	
4-Isopropyltoluene	0.50	U	4.00	3.87		ug/L	97	70 - 130	10	20	
4-Methyl-2-pentanone (MIBK)	5.0	U	20.0	20.2		ug/L	101	70 - 130	11	20	
Acetone	1.3	J	20.0	18.2		ug/L	85	70 - 130	9	20	
Benzene	0.50	U	4.00	4.16		ug/L	104	70 - 130	11	20	
Bromobenzene	0.50	U	4.00	3.97		ug/L	99	70 - 130	8	20	
Bromochloromethane	0.50	U	4.00	4.25		ug/L	106	70 - 130	11	20	
Dichlorobromomethane	0.50	U	4.00	3.77		ug/L	94	70 - 130	10	20	
Bromoform	0.50	U	4.00	3.49		ug/L	87	70 - 130	9	20	
Bromomethane	0.50	U	4.00	4.74		ug/L	119	70 - 130	4	20	
Carbon disulfide	0.50	U	4.00	4.02		ug/L	100	70 - 130	11	20	
Carbon tetrachloride	0.50	U	4.00	4.03		ug/L	101	70 - 130	10	20	
Chlorobenzene	0.50	U	4.00	4.19		ug/L	105	70 - 130	8	20	
Chlorodibromomethane	0.50	U	4.00	3.79		ug/L	95	70 - 130	9	20	
Chloroethane	0.50	U	4.00	4.43		ug/L	111	70 - 130	4	20	
Chloroform	0.50	U	4.00	4.01		ug/L	100	70 - 130	11	20	
Chloromethane	0.50	U	4.00	4.85		ug/L	121	70 - 130	1	20	
cis-1,2-Dichloroethene	5.1		4.00	8.95		ug/L	97	70 - 130	6	20	
cis-1,3-Dichloropropene	0.50	U	4.00	3.70		ug/L	93	70 - 130	12	20	
Dibromomethane	0.50	U	4.00	4.01		ug/L	100	70 - 130	10	20	
Dichlorodifluoromethane	0.50	U F1	4.00	5.24	F1	ug/L	131	70 - 130	2	20	
Ethylbenzene	0.50	U	4.00	4.16		ug/L	104	70 - 130	6	20	
Hexachlorobutadiene	0.50	U	4.00	3.76		ug/L	94	70 - 130	9	20	
Isopropylbenzene	0.50	U	4.00	4.02		ug/L	100	70 - 130	8	20	
Methyl tert-butyl ether	0.50	U	4.00	3.92		ug/L	98	70 - 130	11	20	
Methylene Chloride	2.5	U *	4.00	3.74		ug/L	93	70 - 130	10	20	
Naphthalene	0.50	U	4.00	3.84		ug/L	96	70 - 130	12	20	
n-Butylbenzene	0.50	U	4.00	3.89		ug/L	97	70 - 130	10	20	
N-Propylbenzene	0.50	U	4.00	4.02		ug/L	101	70 - 130	9	20	
sec-Butylbenzene	0.50	U	4.00	3.93		ug/L	98	70 - 130	9	20	
Styrene	0.50	U	4.00	4.02		ug/L	101	70 - 130	8	20	
tert-Butylbenzene	0.50	U	4.00	3.86		ug/L	97	70 - 130	9	20	
Tetrachloroethene	0.50	U	4.00	4.14		ug/L	103	70 - 130	10	20	
Toluene	0.50	U	4.00	4.10		ug/L	102	70 - 130	8	20	
trans-1,2-Dichloroethene	0.50	U	4.00	3.99		ug/L	100	70 - 130	13	20	
trans-1,3-Dichloropropene	0.50	U	4.00	3.83		ug/L	96	70 - 130	13	20	
Trichloroethene	0.89		4.00	4.97		ug/L	102	70 - 130	9	20	
Trichlorofluoromethane	0.50	U	4.00	4.53		ug/L	113	70 - 130	3	20	
Vinyl chloride	0.49	J	4.00	5.17		ug/L	117	70 - 130	3	20	
Xylenes, Total	1.0	U	8.00	8.18		ug/L	102	70 - 130	8	20	
Surrogate		MSD	MSD								
		%Recovery	Qualifier		Limits						
4-Bromofluorobenzene (Surr)	102				80 - 120						
1,2-Dichlorobenzene-d4	101				80 - 120						

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: MB 480-491258/1-A

Matrix: Water

Analysis Batch: 491944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491258

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.20	U	0.20		0.10	ug/L		09/10/19 15:45	09/13/19 16:50		1
Isotope Dilution											
1,4-Dioxane-d8	%Recovery	Qualifier	Limits						Prepared	Analyzed	Dil Fac
	28		15 - 110						09/10/19 15:45	09/13/19 16:50	1

Lab Sample ID: LCS 480-491258/2-A

Matrix: Water

Analysis Batch: 491944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491258

Analyte	MB	MB	Spike	LCS	LCS	Unit	D	%Rec.	Limits		
	Result	Qualifier		Added	Result	Qualifier	Unit	D	%Rec.	Limits	
1,4-Dioxane	0.20	U	1.00	1.19			ug/L		119	40 - 140	
Isotope Dilution											
1,4-Dioxane-d8	%Recovery	Qualifier	Limits								
	28		15 - 110								

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 491944

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491258

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier						
1,4-Dioxane	0.20	U	1.00	1.23	E	ug/L		123	40 - 140		
Isotope Dilution											
1,4-Dioxane-d8	%Recovery	Qualifier	Limits								
	29		15 - 110								

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 491944

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491258

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,4-Dioxane	0.20	U	1.00	1.20		ug/L		120	40 - 140	3	20
Isotope Dilution											
1,4-Dioxane-d8	%Recovery	Qualifier	Limits								
	29		15 - 110								

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-147232/1-A

Matrix: Water

Analysis Batch: 147306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 147232

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.0	U	2.0		2.0	1.0	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoropentanoic acid (PFPeA)	2.0	U	2.0		2.0	0.63	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorohexanoic acid (PFHxA)	2.0	U	2.0		2.0	0.76	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoroheptanoic acid (PFHpA)	2.0	U	2.0		2.0	0.91	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorooctanoic acid (PFOA)	2.0	U	2.0		2.0	0.81	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorononanoic acid (PFNA)	2.0	U	2.0		2.0	0.27	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorodecanoic acid (PFDA)	2.0	U	2.0		2.0	0.77	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoroundecanoic acid (PFUnA)	2.0	U	2.0		2.0	0.78	ng/L		09/12/19 09:44	09/13/19 16:58	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: MB 200-147232/1-A

Matrix: Water

Analysis Batch: 147306

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 147232

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorododecanoic acid (PFDoA)	2.0	U	2.0	0.59	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorotridecanoic acid (PFTriA)	2.0	U	2.0	0.60	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorotetradecanoic acid (PFTeA)	2.0	U	2.0	0.92	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorobutanesulfonic acid (PFBS)	2.0	U	2.0	0.49	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorohexanesulfonic acid (PFHxS)	2.0	U	2.0	0.80	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	2.0	U	2.0	0.95	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoroctanesulfonic acid (PFOS)	2.0	U	2.0	0.61	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluorodecanesulfonic acid (PFDS)	2.0	U	2.0	0.90	ng/L		09/12/19 09:44	09/13/19 16:58	1
Perfluoroctanesulfonamide (PFOSA)	10	U	10	10	ng/L		09/12/19 09:44	09/13/19 16:58	1
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	20	U	20	1.7	ng/L		09/12/19 09:44	09/13/19 16:58	1
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	20	U	20	1.5	ng/L		09/12/19 09:44	09/13/19 16:58	1
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	20	U	20	5.5	ng/L		09/12/19 09:44	09/13/19 16:58	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	20	U	20	2.9	ng/L		09/12/19 09:44	09/13/19 16:58	1
Isotope Dilution	MB		Limits	%Recovery	Qualifier	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
18O2 PFHxS	125		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C4 PFHpA	103		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C4 PFOA	101		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C4 PFOS	106		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C5 PFNA	86		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C4 PFBA	104		25 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C2 PFHxA	108		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C2 PFDA	86		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C2 PFUnA	86		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C2 PFDoA	83		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C8 FOSA	52		25 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C5 PFPeA	100		25 - 150			09/12/19 09:44	09/13/19 16:58	1	
13C2 PFTeDA	63		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
d3-NMeFOSAA	83		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
d5-NEtFOSAA	69		50 - 150			09/12/19 09:44	09/13/19 16:58	1	
M2-6:2 FTS	109		25 - 150			09/12/19 09:44	09/13/19 16:58	1	
M2-8:2 FTS	97		25 - 150			09/12/19 09:44	09/13/19 16:58	1	

Lab Sample ID: LCS 200-147232/2-A

Matrix: Water

Analysis Batch: 147306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 147232

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
	Added	Result						Limits	
Perfluorobutanoic acid (PFBA)	40.0	41.0			ng/L		103	50 - 150	
Perfluoropentanoic acid (PFPeA)	40.0	42.5			ng/L		106	50 - 150	
Perfluorohexanoic acid (PFHxA)	40.0	39.7			ng/L		99	70 - 130	
Perfluoroheptanoic acid (PFHpA)	40.0	39.9			ng/L		100	70 - 130	
Perfluoroctanoic acid (PFOA)	40.0	35.4			ng/L		88	70 - 130	
Perfluorononanoic acid (PFNA)	40.0	37.8			ng/L		94	70 - 130	
Perfluorodecanoic acid (PFDA)	40.0	37.2			ng/L		93	70 - 130	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: LCS 200-147232/2-A

Matrix: Water

Analysis Batch: 147306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 147232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluoroundecanoic acid (PFUnA)	40.0	40.5		ng/L	101	70 - 130	
Perfluorododecanoic acid (PFDa)	40.0	38.7		ng/L	97	70 - 130	
Perfluorotridecanoic acid (PFTriA)	40.0	35.5		ng/L	89	70 - 130	
Perfluorotetradecanoic acid (PFTeA)	40.0	44.2		ng/L	111	70 - 130	
Perfluorobutanesulfonic acid (PFBS)	35.4	32.7		ng/L	93	70 - 130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.6		ng/L	90	70 - 130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.5		ng/L	104	50 - 150	
Perfluoroctanesulfonic acid (PFOS)	37.1	36.5		ng/L	98	70 - 130	
Perfluorodecanesulfonic acid (PFDS)	38.6	41.7		ng/L	108	50 - 150	
Perfluoroctanesulfonamide (PFOSA)	40.0	42.9		ng/L	107	50 - 150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	37.6		ng/L	94	70 - 130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	45.4		ng/L	113	70 - 130	
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	37.9	30.0		ng/L	79	50 - 150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	30.7		ng/L	80	50 - 150	

LCS LCS

Isotope Dilution	%Recovery	Qualifier	Limits
18O2 PFHxS	120		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	101		50 - 150
13C4 PFOS	98		50 - 150
13C5 PFNA	89		50 - 150
13C4 PFBA	102		25 - 150
13C2 PFHxA	103		50 - 150
13C2 PFDA	85		50 - 150
13C2 PFUnA	76		50 - 150
13C2 PFDa	73		50 - 150
13C8 FOSA	57		25 - 150
13C5 PFPeA	98		25 - 150
13C2 PFTeDA	58		50 - 150
d3-NMeFOSAA	79		50 - 150
d5-NEtFOSAA	63		50 - 150
M2-6:2 FTS	106		25 - 150
M2-8:2 FTS	95		25 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 147306

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 147232

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	1.7	U	34.1	34.7		ng/L		102	40 - 160
Perfluoropentanoic acid (PPPeA)	1.7	U	34.1	36.4		ng/L		107	40 - 160
Perfluorohexanoic acid (PFHxA)	1.7	U	34.1	32.3		ng/L		95	40 - 160
Perfluoroheptanoic acid (PFHpA)	1.7	U	34.1	36.1		ng/L		106	40 - 160
Perfluorooctanoic acid (PFOA)	1.7	U	34.1	33.1		ng/L		97	40 - 160
Perfluorononanoic acid (PFNA)	1.7	U	34.1	34.6		ng/L		102	40 - 160
Perfluorodecanoic acid (PFDA)	1.7	U	34.1	32.6		ng/L		96	40 - 160
Perfluoroundecanoic acid (PFUnA)	1.7	U	34.1	37.2		ng/L		109	40 - 160
Perfluorododecanoic acid (PFDoA)	1.7	U	34.1	29.0		ng/L		85	40 - 160
Perfluorotridecanoic acid (PFTriA)	1.7	U	34.1	31.3		ng/L		92	40 - 160
Perfluorotetradecanoic acid (PFTeA)	1.7	U	34.1	35.9		ng/L		106	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.7	U	30.1	27.8		ng/L		92	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	31.0	27.4		ng/L		88	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	32.4	33.0		ng/L		102	40 - 160
Perfluoroctanesulfonic acid (PFOS)	1.7	U	31.6	32.1		ng/L		102	40 - 160
Perfluorodecanesulfonic acid (PFDS)	1.7	U	32.8	33.7		ng/L		103	40 - 160
Perfluoroctanesulfonamide (PFOSA)	8.5	U	34.1	37.1		ng/L		109	40 - 160
N-methylperfluoroctanesulfonamidoacetic acid (NMeFOSAA)	17	U	34.1	34.9		ng/L		103	40 - 160
N-ethylperfluoroctanesulfonamidoacetic acid (NEtFOSAA)	17	U	34.1	34.5		ng/L		101	40 - 160
1H,1H,2H,2H-perfluoroctanesulfonic acid (6:2)	17	U	32.3	27.4		ng/L		85	40 - 160
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	32.6	25.0		ng/L		77	40 - 160
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
18O2 PFHxA	120		50 - 150						
13C4 PFHpA	91		50 - 150						
13C4 PFOA	89		50 - 150						
13C4 PFOS	95		50 - 150						
13C5 PFNA	80		50 - 150						
13C4 PFBA	98		25 - 150						
13C2 PFHxA	99		50 - 150						
13C2 PFDA	82		50 - 150						
13C2 PFUnA	74		50 - 150						
13C2 PFDoA	87		50 - 150						
13C8 FOSA	69		25 - 150						
13C5 PPpEA	89		25 - 150						
13C2 PFTeDA	63		50 - 150						
d3-NMeFOSAA	80		50 - 150						
d5-NEtFOSAA	66		50 - 150						

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 147306

Isotope Dilution	MS	MS	%Recovery	Qualifier	Limits
M2-6:2 FTS	110				25 - 150
M2-8:2 FTS	102				25 - 150

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 147306

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	1.7	U	33.6	34.4		ng/L	102	40 - 160	1	30	
Perfluoropentanoic acid (PFPeA)	1.7	U	33.6	35.0		ng/L	104	40 - 160	4	30	
Perfluorohexanoic acid (PFHxA)	1.7	U	33.6	33.7		ng/L	100	40 - 160	4	20	
Perfluoroheptanoic acid (PFHpA)	1.7	U	33.6	34.7		ng/L	103	40 - 160	4	20	
Perfluoroctanoic acid (PFOA)	1.7	U	33.6	33.0		ng/L	98	40 - 160	0	20	
Perfluorononanoic acid (PFNA)	1.7	U	33.6	35.4		ng/L	105	40 - 160	2	20	
Perfluorodecanoic acid (PFDA)	1.7	U	33.6	36.0		ng/L	107	40 - 160	10	20	
Perfluoroundecanoic acid (PFUnA)	1.7	U	33.6	34.4		ng/L	102	40 - 160	8	20	
Perfluorododecanoic acid (PFDa)	1.7	U	33.6	30.5		ng/L	91	40 - 160	5	20	
Perfluorotridecanoic acid (PFTriA)	1.7	U	33.6	30.7		ng/L	91	40 - 160	2	20	
Perfluorotetradecanoic acid (PFTeA)	1.7	U	33.6	39.3		ng/L	117	40 - 160	9	20	
Perfluorobutanesulfonic acid (PFBS)	1.7	U	29.7	27.1		ng/L	91	40 - 160	3	20	
Perfluorohexanesulfonic acid (PFHxS)	1.7	U	30.6	25.1		ng/L	82	40 - 160	9	20	
Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U	32.0	34.4		ng/L	108	40 - 160	4	30	
Perfluoroctanesulfonic acid (PFOS)	1.7	U	31.2	31.2		ng/L	100	40 - 160	3	20	
Perfluorodecanesulfonic acid (PFDS)	1.7	U	32.4	33.0		ng/L	102	40 - 160	2	30	
Perfluorooctanesulfonamide (PFOSA)	8.5	U	33.6	35.9		ng/L	107	40 - 160	4	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	17	U	33.6	30.5		ng/L	91	40 - 160	14	20	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	17	U	33.6	34.3		ng/L	102	40 - 160	1	20	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	17	U	31.9	27.5		ng/L	86	40 - 160	1	30	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	17	U	32.2	26.8		ng/L	83	40 - 160	7	30	

Isotope Dilution	MSD	MSD	%Recovery	Qualifier	Limits
	Result	Qualifier			
18O2 PFHxS	129				50 - 150
13C4 PFHpA	89				50 - 150
13C4 PFOA	88				50 - 150
13C4 PFOS	95				50 - 150
13C5 PFNA	78				50 - 150
13C4 PFBA	98				25 - 150
13C2 PFHxA	94				50 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

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

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 147306

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 147232

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2 PFDA	82		50 - 150
13C2 PFUnA	74		50 - 150
13C2 PFDoA	79		50 - 150
13C8 FOSA	66		25 - 150
13C5 PFPeA	93		25 - 150
13C2 PFTeDA	62		50 - 150
d3-NMeFOSAA	80		50 - 150
d5-NEtFOSAA	65		50 - 150
M2-6:2 FTS	112		25 - 150
M2-8:2 FTS	101		25 - 150

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-491254/1-A

Matrix: Water

Analysis Batch: 492108

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.20	U	0.20	0.060	mg/L		09/12/19 07:27	09/13/19 22:11	1
Barium	0.0020	U	0.0020	0.00070	mg/L		09/12/19 07:27	09/13/19 22:11	1
Beryllium	0.0020	U	0.0020	0.00030	mg/L		09/12/19 07:27	09/13/19 22:11	1
Cadmium	0.0020	U	0.0020	0.00050	mg/L		09/12/19 07:27	09/13/19 22:11	1
Calcium	0.50	U	0.50	0.10	mg/L		09/12/19 07:27	09/13/19 22:11	1
Chromium, Total	0.0040	U	0.0040	0.0010	mg/L		09/12/19 07:27	09/13/19 22:11	1
Cobalt	0.0040	U	0.0040	0.00063	mg/L		09/12/19 07:27	09/13/19 22:11	1
Copper	0.010	U	0.010	0.0016	mg/L		09/12/19 07:27	09/13/19 22:11	1
Iron	0.050	U	0.050	0.019	mg/L		09/12/19 07:27	09/13/19 22:11	1
Magnesium	0.20	U	0.20	0.043	mg/L		09/12/19 07:27	09/13/19 22:11	1
Manganese	0.0030	U	0.0030	0.00040	mg/L		09/12/19 07:27	09/13/19 22:11	1
Nickel	0.010	U	0.010	0.0013	mg/L		09/12/19 07:27	09/13/19 22:11	1
Silver	0.0060	U	0.0060	0.0017	mg/L		09/12/19 07:27	09/13/19 22:11	1
Vanadium	0.0050	U	0.0050	0.0015	mg/L		09/12/19 07:27	09/13/19 22:11	1
Zinc	0.00383	J	0.010	0.0015	mg/L		09/12/19 07:27	09/13/19 22:11	1

Lab Sample ID: MB 480-491254/1-A

Matrix: Water

Analysis Batch: 492158

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.50	U	0.50	0.10	mg/L		09/12/19 07:27	09/14/19 13:30	1
Sodium	1.0	U	1.0	0.32	mg/L		09/12/19 07:27	09/14/19 13:30	1

Lab Sample ID: MB 480-491254/1-A

Matrix: Water

Analysis Batch: 492410

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 491254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.025	U	0.025	0.0087	mg/L		09/12/19 07:27	09/16/19 22:27	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-491254/2-A

Matrix: Water

Analysis Batch: 492108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Aluminum	10.0	9.19		mg/L		92	85 - 115	
Barium	0.200	0.204		mg/L		102	85 - 115	
Beryllium	0.200	0.195		mg/L		98	85 - 115	
Cadmium	0.200	0.211		mg/L		105	85 - 115	
Calcium	10.0	9.23		mg/L		92	85 - 115	
Chromium, Total	0.200	0.191		mg/L		95	85 - 115	
Cobalt	0.200	0.184		mg/L		92	85 - 115	
Copper	0.200	0.186		mg/L		93	85 - 115	
Iron	10.0	9.93		mg/L		99	85 - 115	
Magnesium	10.0	9.76		mg/L		98	85 - 115	
Manganese	0.200	0.201		mg/L		100	85 - 115	
Nickel	0.200	0.199		mg/L		100	85 - 115	
Potassium	10.0	10.20		mg/L		102	85 - 115	
Silver	0.0500	0.0482		mg/L		96	85 - 115	
Sodium	10.0	10.37		mg/L		104	85 - 115	
Vanadium	0.200	0.202		mg/L		101	85 - 115	
Zinc	0.200	0.199		mg/L		100	85 - 115	

Lab Sample ID: LCS 480-491254/2-A

Matrix: Water

Analysis Batch: 492410

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Selenium	0.200	0.189		mg/L		95	85 - 115	

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 492108

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Aluminum	0.23		10.0	9.68		mg/L		94	70 - 130	
Barium	0.093		0.200	0.301		mg/L		104	70 - 130	
Beryllium	0.0020	U	0.200	0.197		mg/L		99	70 - 130	
Cadmium	0.0020	U	0.200	0.219		mg/L		110	70 - 130	
Calcium	76.1		10.0	85.30	4	mg/L		92	70 - 130	
Chromium, Total	0.0040	U	0.200	0.191		mg/L		96	70 - 130	
Cobalt	0.0040	U	0.200	0.188		mg/L		94	70 - 130	
Copper	0.0041	J	0.200	0.192		mg/L		94	70 - 130	
Iron	0.35		10.0	10.34		mg/L		100	70 - 130	
Magnesium	16.0		10.0	25.93		mg/L		100	70 - 130	
Manganese	0.26	B	0.200	0.464		mg/L		102	70 - 130	
Nickel	0.010	U	0.200	0.202		mg/L		101	70 - 130	
Potassium	1.2		10.0	11.47		mg/L		102	70 - 130	
Silver	0.0060	U	0.0500	0.0491		mg/L		98	70 - 130	
Sodium	3.8		10.0	13.62		mg/L		98	70 - 130	
Vanadium	0.0050	U	0.200	0.205		mg/L		103	70 - 130	
Zinc	0.010	U	0.200	0.197		mg/L		98	70 - 130	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-158837-2 MS				Client Sample ID: CTLMW102-090319						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 492410				Prep Batch: 491254						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
Selenium	0.025	U	0.200	0.197		mg/L	98	70 - 130		
Lab Sample ID: 480-158837-2 MSD										
Matrix: Water										
Analysis Batch: 492108										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Aluminum	0.23		10.0	10.00		mg/L	98	70 - 130	3	20
Barium	0.093		0.200	0.307		mg/L	107	70 - 130	2	20
Beryllium	0.0020	U	0.200	0.204		mg/L	102	70 - 130	3	20
Cadmium	0.0020	U	0.200	0.227		mg/L	113	70 - 130	3	20
Calcium	76.1		10.0	86.76	4	mg/L	106	70 - 130	2	20
Chromium, Total	0.0040	U	0.200	0.197		mg/L	99	70 - 130	3	20
Cobalt	0.0040	U	0.200	0.194		mg/L	97	70 - 130	3	20
Copper	0.0041	J	0.200	0.198		mg/L	97	70 - 130	3	20
Iron	0.35		10.0	10.75		mg/L	104	70 - 130	4	20
Magnesium	16.0		10.0	26.44		mg/L	105	70 - 130	2	20
Manganese	0.26	B	0.200	0.490		mg/L	116	70 - 130	6	20
Nickel	0.010	U	0.200	0.208		mg/L	104	70 - 130	3	20
Potassium	1.2		10.0	11.73		mg/L	105	70 - 130	2	20
Silver	0.0060	U	0.0500	0.0508		mg/L	102	70 - 130	3	20
Sodium	3.8		10.0	13.94		mg/L	101	70 - 130	2	20
Vanadium	0.0050	U	0.200	0.212		mg/L	106	70 - 130	3	20
Zinc	0.010	U	0.200	0.204		mg/L	102	70 - 130	4	20

Lab Sample ID: 480-158837-2 MSD				Client Sample ID: CTLMW102-090319						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 492410				Prep Batch: 491254						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Selenium	0.025	U	0.200	0.197		mg/L	99	70 - 130	0	20

Method: 200.8 - Metals (ICP/MS)										
Lab Sample ID: MB 480-491256/1-A										Client Sample ID: Method Blank
Matrix: Water										Prep Type: Total/NA
Analysis Batch: 491521										Prep Batch: 491256
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	0.301	J	1.0	0.27	ug/L		09/11/19 08:35	09/11/19 13:43	1	
Lead	1.0	U	1.0	0.17	ug/L		09/11/19 08:35	09/11/19 13:43	1	
Thallium	0.20	U	0.20	0.019	ug/L		09/11/19 08:35	09/11/19 13:43	1	

Lab Sample ID: MB 480-491256/1-A										
Matrix: Water										Client Sample ID: Method Blank
Analysis Batch: 492718										Prep Type: Total/NA
Prep Batch: 491256										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	1.0	U	1.0	0.35	ug/L		09/11/19 08:35	09/18/19 11:37	1	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 480-491256/2-A

Matrix: Water

Analysis Batch: 491521

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Arsenic	20.0	20.11		ug/L		101	85 - 115	
Lead	20.0	19.20		ug/L		96	85 - 115	
Thallium	20.0	19.62		ug/L		98	85 - 115	

Lab Sample ID: LCS 480-491256/2-A

Matrix: Water

Analysis Batch: 492718

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Antimony	20.0	22.29		ug/L		111	85 - 115	

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 491521

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.74	J B	20.0	20.36		ug/L		98	70 - 130
Lead	2.2		20.0	20.96		ug/L		94	70 - 130
Thallium	0.20	U	20.0	18.67		ug/L		93	70 - 130

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 492718

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Antimony	1.0	U	20.0	21.69		ug/L		108	70 - 130

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 491521

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Arsenic	0.74	J B	20.0	20.31		ug/L		98	70 - 130	0	20
Lead	2.2		20.0	21.72		ug/L		98	70 - 130	4	20
Thallium	0.20	U	20.0	18.71		ug/L		94	70 - 130	0	20

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 492718

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	1.0	U	20.0	21.62		ug/L		108	70 - 130	0	20

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 491256

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491256

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491256

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 491256

QC Sample Results

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-492283/1-A

Matrix: Water

Analysis Batch: 492364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 492283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 15:24	1

Lab Sample ID: LCS 480-492283/2-A

Matrix: Water

Analysis Batch: 492364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 492283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.00667	0.00680		mg/L		102	85 - 115

Lab Sample ID: 480-158837-2 MS

Matrix: Water

Analysis Batch: 492364

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 492283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.00020	U	0.00667	0.00703		mg/L		105	70 - 130

Lab Sample ID: 480-158837-2 MSD

Matrix: Water

Analysis Batch: 492364

Client Sample ID: CTLMW102-090319

Prep Type: Total/NA

Prep Batch: 492283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Mercury	0.00020	U	0.00667	0.00603		mg/L		90	70 - 130	15 20

Lab Sample ID: MB 480-492284/1-A

Matrix: Water

Analysis Batch: 492364

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 492284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00020	U	0.00020	0.00012	mg/L		09/16/19 12:05	09/16/19 16:04	1

Lab Sample ID: LCS 480-492284/2-A

Matrix: Water

Analysis Batch: 492364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 492284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.00667	0.00670		mg/L		100	85 - 115

Lab Sample ID: 480-158837-9 MS

Matrix: Water

Analysis Batch: 492364

Client Sample ID: CTLMW112S-090519

Prep Type: Total/NA

Prep Batch: 492284

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.00020	U	0.00667	0.00707		mg/L		106	70 - 130

Lab Sample ID: 480-158837-9 MSD

Matrix: Water

Analysis Batch: 492364

Client Sample ID: CTLMW112S-090519

Prep Type: Total/NA

Prep Batch: 492284

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Mercury	0.00020	U	0.00667	0.00690		mg/L		103	70 - 130	2 20

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

GC/MS VOA

Analysis Batch: 491376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-1	TB09032019	Total/NA	Water	524.2	1
480-158837-2	CTLMW102-090319	Total/NA	Water	524.2	2
480-158837-3	CTLMW102I-090319	Total/NA	Water	524.2	3
480-158837-4	CTLMW13-090419	Total/NA	Water	524.2	4
480-158837-5	CTLMW117I-090419	Total/NA	Water	524.2	5
480-158837-6	CTLMW117S-090419	Total/NA	Water	524.2	6
480-158837-7	CTLMW117D-090419	Total/NA	Water	524.2	7
480-158837-8	CTLMW113S-090519	Total/NA	Water	524.2	8
480-158837-9	CTLMW112S-090519	Total/NA	Water	524.2	9
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	524.2	10
480-158837-11	CTLMW118S-090519	Total/NA	Water	524.2	11
480-158837-12	CTLMW114S-090519	Total/NA	Water	524.2	12
480-158837-13	CTLMW115S-090519	Total/NA	Water	524.2	13
480-158837-14	CTLMW116S-090519	Total/NA	Water	524.2	14
MB 480-491376/7	Method Blank	Total/NA	Water	524.2	
LCS 480-491376/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-491376/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-491376/6	Lab Control Sample	Total/NA	Water	524.2	
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	524.2	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	524.2	

GC/MS Semi VOA

Prep Batch: 491258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	3510C	16
480-158837-3	CTLMW102I-090319	Total/NA	Water	3510C	
480-158837-4	CTLMW13-090419	Total/NA	Water	3510C	
480-158837-5	CTLMW117I-090419	Total/NA	Water	3510C	
480-158837-6	CTLMW117S-090419	Total/NA	Water	3510C	
480-158837-7	CTLMW117D-090419	Total/NA	Water	3510C	
480-158837-8	CTLMW113S-090519	Total/NA	Water	3510C	
480-158837-9	CTLMW112S-090519	Total/NA	Water	3510C	
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	3510C	
480-158837-11	CTLMW118S-090519	Total/NA	Water	3510C	
480-158837-12	CTLMW114S-090519	Total/NA	Water	3510C	
480-158837-13	CTLMW115S-090519	Total/NA	Water	3510C	
480-158837-14	CTLMW116S-090519	Total/NA	Water	3510C	
MB 480-491258/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-491258/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	3510C	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	3510C	

Analysis Batch: 491944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	8270D SIM ID	491258
480-158837-3	CTLMW102I-090319	Total/NA	Water	8270D SIM ID	491258
480-158837-4	CTLMW13-090419	Total/NA	Water	8270D SIM ID	491258
480-158837-5	CTLMW117I-090419	Total/NA	Water	8270D SIM ID	491258
480-158837-6	CTLMW117S-090419	Total/NA	Water	8270D SIM ID	491258
480-158837-7	CTLMW117D-090419	Total/NA	Water	8270D SIM ID	491258

Eurofins TestAmerica, Buffalo

QC Association Summary

Job ID: 480-158837-1

Client: New York State D.E.C.

Project/Site: Carroll Town Landfill Site

GC/MS Semi VOA (Continued)

Analysis Batch: 491944 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-8	CTLMW113S-090519	Total/NA	Water	8270D SIM ID	491258
480-158837-9	CTLMW112S-090519	Total/NA	Water	8270D SIM ID	491258
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	8270D SIM ID	491258
480-158837-11	CTLMW118S-090519	Total/NA	Water	8270D SIM ID	491258
480-158837-13	CTLMW115S-090519	Total/NA	Water	8270D SIM ID	491258
480-158837-14	CTLMW116S-090519	Total/NA	Water	8270D SIM ID	491258
MB 480-491258/1-A	Method Blank	Total/NA	Water	8270D SIM ID	491258
LCS 480-491258/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	491258
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	8270D SIM ID	491258
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	8270D SIM ID	491258

Analysis Batch: 492339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-12	CTLMW114S-090519	Total/NA	Water	8270D SIM ID	491258

LCMS

Prep Batch: 147232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	3535	13
480-158837-3	CTLMW102I-090319	Total/NA	Water	3535	14
480-158837-4	CTLMW13-090419	Total/NA	Water	3535	15
480-158837-5	CTLMW117I-090419	Total/NA	Water	3535	16
480-158837-6	CTLMW117S-090419	Total/NA	Water	3535	
480-158837-7	CTLMW117D-090419	Total/NA	Water	3535	
480-158837-8	CTLMW113S-090519	Total/NA	Water	3535	
480-158837-9	CTLMW112S-090519	Total/NA	Water	3535	
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	3535	
480-158837-11	CTLMW118S-090519	Total/NA	Water	3535	
480-158837-12	CTLMW114S-090519	Total/NA	Water	3535	
480-158837-13	CTLMW115S-090519	Total/NA	Water	3535	
480-158837-14	CTLMW116S-090519	Total/NA	Water	3535	
480-158837-15	RB090319	Total/NA	Water	3535	
480-158837-16	RB090519	Total/NA	Water	3535	
480-158837-17	RB090419	Total/NA	Water	3535	
MB 200-147232/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-147232/2-A	Lab Control Sample	Total/NA	Water	3535	
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	3535	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	3535	

Analysis Batch: 147306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	537 (modified)	147232
480-158837-3	CTLMW102I-090319	Total/NA	Water	537 (modified)	147232
480-158837-4	CTLMW13-090419	Total/NA	Water	537 (modified)	147232
480-158837-5	CTLMW117I-090419	Total/NA	Water	537 (modified)	147232
480-158837-6	CTLMW117S-090419	Total/NA	Water	537 (modified)	147232
480-158837-7	CTLMW117D-090419	Total/NA	Water	537 (modified)	147232
480-158837-8	CTLMW113S-090519	Total/NA	Water	537 (modified)	147232
480-158837-9	CTLMW112S-090519	Total/NA	Water	537 (modified)	147232
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	537 (modified)	147232

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

LCMS (Continued)

Analysis Batch: 147306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-11	CTLMW118S-090519	Total/NA	Water	537 (modified)	147232
480-158837-12	CTLMW114S-090519	Total/NA	Water	537 (modified)	147232
480-158837-13	CTLMW115S-090519	Total/NA	Water	537 (modified)	147232
480-158837-14	CTLMW116S-090519	Total/NA	Water	537 (modified)	147232
480-158837-15	RB090319	Total/NA	Water	537 (modified)	147232
480-158837-16	RB090519	Total/NA	Water	537 (modified)	147232
480-158837-17	RB090419	Total/NA	Water	537 (modified)	147232
MB 200-147232/1-A	Method Blank	Total/NA	Water	537 (modified)	147232
LCS 200-147232/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	147232
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	537 (modified)	147232
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	537 (modified)	147232

Metals

Prep Batch: 491254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.7	12
480-158837-3	CTLMW102I-090319	Total/NA	Water	200.7	13
480-158837-4	CTLMW13-090419	Total/NA	Water	200.7	14
480-158837-5	CTLMW117I-090419	Total/NA	Water	200.7	15
480-158837-6	CTLMW117S-090419	Total/NA	Water	200.7	16
480-158837-7	CTLMW117D-090419	Total/NA	Water	200.7	
480-158837-8	CTLMW113S-090519	Total/NA	Water	200.7	
480-158837-9	CTLMW112S-090519	Total/NA	Water	200.7	
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	200.7	
480-158837-11	CTLMW118S-090519	Total/NA	Water	200.7	
480-158837-12	CTLMW114S-090519	Total/NA	Water	200.7	
480-158837-13	CTLMW115S-090519	Total/NA	Water	200.7	
480-158837-14	CTLMW116S-090519	Total/NA	Water	200.7	
MB 480-491254/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-491254/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.7	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.7	

Prep Batch: 491256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.8	
480-158837-3	CTLMW102I-090319	Total/NA	Water	200.8	
480-158837-4	CTLMW13-090419	Total/NA	Water	200.8	
480-158837-5	CTLMW117I-090419	Total/NA	Water	200.8	
480-158837-6	CTLMW117S-090419	Total/NA	Water	200.8	
480-158837-7	CTLMW117D-090419	Total/NA	Water	200.8	
480-158837-8	CTLMW113S-090519	Total/NA	Water	200.8	
480-158837-9	CTLMW112S-090519	Total/NA	Water	200.8	
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	200.8	
480-158837-11	CTLMW118S-090519	Total/NA	Water	200.8	
480-158837-12	CTLMW114S-090519	Total/NA	Water	200.8	
480-158837-13	CTLMW115S-090519	Total/NA	Water	200.8	
480-158837-14	CTLMW116S-090519	Total/NA	Water	200.8	
MB 480-491256/1-A	Method Blank	Total/NA	Water	200.8	
LCS 480-491256/2-A	Lab Control Sample	Total/NA	Water	200.8	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Metals (Continued)

Prep Batch: 491256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.8	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.8	

Analysis Batch: 491521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.8	491256
480-158837-3	CTLMW102I-090319	Total/NA	Water	200.8	491256
480-158837-4	CTLMW13-090419	Total/NA	Water	200.8	491256
480-158837-5	CTLMW117I-090419	Total/NA	Water	200.8	491256
480-158837-6	CTLMW117S-090419	Total/NA	Water	200.8	491256
480-158837-7	CTLMW117D-090419	Total/NA	Water	200.8	491256
480-158837-8	CTLMW113S-090519	Total/NA	Water	200.8	491256
480-158837-9	CTLMW112S-090519	Total/NA	Water	200.8	491256
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	200.8	491256
480-158837-11	CTLMW118S-090519	Total/NA	Water	200.8	491256
480-158837-12	CTLMW114S-090519	Total/NA	Water	200.8	491256
480-158837-13	CTLMW115S-090519	Total/NA	Water	200.8	491256
480-158837-14	CTLMW116S-090519	Total/NA	Water	200.8	491256
MB 480-491256/1-A	Method Blank	Total/NA	Water	200.8	491256
LCS 480-491256/2-A	Lab Control Sample	Total/NA	Water	200.8	491256
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.8	491256
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.8	491256

Analysis Batch: 492108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-3	CTLMW102I-090319	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-4	CTLMW13-090419	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-5	CTLMW117I-090419	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-6	CTLMW117S-090419	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-7	CTLMW117D-090419	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-8	CTLMW113S-090519	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-9	CTLMW112S-090519	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-11	CTLMW118S-090519	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-12	CTLMW114S-090519	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-13	CTLMW115S-090519	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-14	CTLMW116S-090519	Total/NA	Water	200.7 Rev 4.4	491254
MB 480-491254/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	491254
LCS 480-491254/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254

Analysis Batch: 492158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-491254/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	491254

Prep Batch: 492283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	245.1	
480-158837-3	CTLMW102I-090319	Total/NA	Water	245.1	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Metals (Continued)

Prep Batch: 492283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-4	CTLMW13-090419	Total/NA	Water	245.1	
480-158837-5	CTLMW117I-090419	Total/NA	Water	245.1	
480-158837-6	CTLMW117S-090419	Total/NA	Water	245.1	
480-158837-7	CTLMW117D-090419	Total/NA	Water	245.1	
MB 480-492283/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-492283/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	245.1	
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	245.1	

Prep Batch: 492284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-8	CTLMW113S-090519	Total/NA	Water	245.1	
480-158837-9	CTLMW112S-090519	Total/NA	Water	245.1	
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	245.1	
480-158837-11	CTLMW118S-090519	Total/NA	Water	245.1	
480-158837-12	CTLMW114S-090519	Total/NA	Water	245.1	
480-158837-13	CTLMW115S-090519	Total/NA	Water	245.1	
480-158837-14	CTLMW116S-090519	Total/NA	Water	245.1	
MB 480-492284/1-A	Method Blank	Total/NA	Water	245.1	
LCS 480-492284/2-A	Lab Control Sample	Total/NA	Water	245.1	
480-158837-9 MS	CTLMW112S-090519	Total/NA	Water	245.1	
480-158837-9 MSD	CTLMW112S-090519	Total/NA	Water	245.1	

Analysis Batch: 492364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	245.1	492283
480-158837-3	CTLMW102I-090319	Total/NA	Water	245.1	492283
480-158837-4	CTLMW13-090419	Total/NA	Water	245.1	492283
480-158837-5	CTLMW117I-090419	Total/NA	Water	245.1	492283
480-158837-6	CTLMW117S-090419	Total/NA	Water	245.1	492283
480-158837-7	CTLMW117D-090419	Total/NA	Water	245.1	492283
480-158837-8	CTLMW113S-090519	Total/NA	Water	245.1	492284
480-158837-9	CTLMW112S-090519	Total/NA	Water	245.1	492284
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	245.1	492284
480-158837-11	CTLMW118S-090519	Total/NA	Water	245.1	492284
480-158837-12	CTLMW114S-090519	Total/NA	Water	245.1	492284
480-158837-13	CTLMW115S-090519	Total/NA	Water	245.1	492284
480-158837-14	CTLMW116S-090519	Total/NA	Water	245.1	492284
MB 480-492283/1-A	Method Blank	Total/NA	Water	245.1	492283
MB 480-492284/1-A	Method Blank	Total/NA	Water	245.1	492284
LCS 480-492283/2-A	Lab Control Sample	Total/NA	Water	245.1	492283
LCS 480-492284/2-A	Lab Control Sample	Total/NA	Water	245.1	492284
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	245.1	492283
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	245.1	492283
480-158837-9 MS	CTLMW112S-090519	Total/NA	Water	245.1	492284
480-158837-9 MSD	CTLMW112S-090519	Total/NA	Water	245.1	492284

Analysis Batch: 492410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254
MB 480-491254/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	491254

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Metals (Continued)

Analysis Batch: 492410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-491254/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.7 Rev 4.4	491254

Analysis Batch: 492718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-158837-2	CTLMW102-090319	Total/NA	Water	200.8	491256
480-158837-3	CTLMW102I-090319	Total/NA	Water	200.8	491256
480-158837-4	CTLMW13-090419	Total/NA	Water	200.8	491256
480-158837-5	CTLMW117I-090419	Total/NA	Water	200.8	491256
480-158837-6	CTLMW117S-090419	Total/NA	Water	200.8	491256
480-158837-7	CTLMW117D-090419	Total/NA	Water	200.8	491256
480-158837-8	CTLMW113S-090519	Total/NA	Water	200.8	491256
480-158837-9	CTLMW112S-090519	Total/NA	Water	200.8	491256
480-158837-10	CTLMW112S-090519Q	Total/NA	Water	200.8	491256
480-158837-11	CTLMW118S-090519	Total/NA	Water	200.8	491256
480-158837-12	CTLMW114S-090519	Total/NA	Water	200.8	491256
480-158837-13	CTLMW115S-090519	Total/NA	Water	200.8	491256
480-158837-14	CTLMW116S-090519	Total/NA	Water	200.8	491256
MB 480-491256/1-A	Method Blank	Total/NA	Water	200.8	491256
LCS 480-491256/2-A	Lab Control Sample	Total/NA	Water	200.8	491256
480-158837-2 MS	CTLMW102-090319	Total/NA	Water	200.8	491256
480-158837-2 MSD	CTLMW102-090319	Total/NA	Water	200.8	491256

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: TB09032019
Date Collected: 09/03/19 11:30
Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 14:46	CDC	TAL BUF

Client Sample ID: CTLMW102-090319

Date Collected: 09/03/19 14:30
Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 15:11	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 18:24	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 17:39	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 22:18	LMH	TAL BUF
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492410	09/16/19 22:35	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 13:47	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 11:41	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 15:50	BMB	TAL BUF

Client Sample ID: CTLMW102I-090319

Date Collected: 09/03/19 12:21
Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 15:36	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 18:48	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:03	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 22:48	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 13:59	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 11:53	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 15:55	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW13-090419

Lab Sample ID: 480-158837-4

Matrix: Water

Date Collected: 09/04/19 12:00
Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 16:01	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 19:11	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:11	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 22:52	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:01	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 11:55	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 15:56	BMB	TAL BUF

Client Sample ID: CTLMW117I-090419

Lab Sample ID: 480-158837-5

Matrix: Water

Date Collected: 09/04/19 12:21
Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 16:26	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 19:35	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:19	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 22:56	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:03	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 11:58	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 15:58	BMB	TAL BUF

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48
Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 16:51	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 19:58	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:27	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 22:59	LMH	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW117S-090419

Lab Sample ID: 480-158837-6

Matrix: Water

Date Collected: 09/04/19 13:48

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:13	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:07	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 15:59	BMB	TAL BUF

Client Sample ID: CTLMW117D-090419

Lab Sample ID: 480-158837-7

Matrix: Water

Date Collected: 09/04/19 14:50

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 17:16	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 20:22	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:35	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:03	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:15	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:09	KMP	TAL BUF
Total/NA	Prep	245.1			492283	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:00	BMB	TAL BUF

Client Sample ID: CTLMW113S-090519

Lab Sample ID: 480-158837-8

Matrix: Water

Date Collected: 09/05/19 12:45

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 17:40	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 20:45	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:51	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:07	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:17	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:11	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:07	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW112S-090519

Lab Sample ID: 480-158837-9

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 18:05	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 21:09	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 18:59	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:22	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:19	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:14	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:08	BMB	TAL BUF

Client Sample ID: CTLMW112S-090519Q

Lab Sample ID: 480-158837-10

Matrix: Water

Date Collected: 09/05/19 10:56

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 18:30	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 21:33	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:07	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:26	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:22	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:16	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:13	BMB	TAL BUF

Client Sample ID: CTLMW118S-090519

Lab Sample ID: 480-158837-11

Matrix: Water

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 18:55	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 21:56	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:15	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:30	LMH	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW118S-090519

Date Collected: 09/05/19 12:30

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:24	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:18	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:14	BMB	TAL BUF

Client Sample ID: CTLMW114S-090519

Date Collected: 09/05/19 14:20

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 19:20	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	492339	09/19/19 01:21	JMM	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:23	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:34	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:26	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:20	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:16	BMB	TAL BUF

Client Sample ID: CTLMW115S-090519

Date Collected: 09/05/19 15:30

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 19:45	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 22:43	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:31	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:38	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:28	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:23	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:20	BMB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Client Sample ID: CTLMW116S-090519

Date Collected: 09/05/19 17:40

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	491376	09/11/19 20:10	CDC	TAL BUF
Total/NA	Prep	3510C			491258	09/10/19 15:45	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	491944	09/13/19 23:07	RJS	TAL BUF
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:39	BWC	TAL BUR
Total/NA	Prep	200.7			491254	09/12/19 07:27	NSW	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	492108	09/13/19 23:41	LMH	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	491521	09/11/19 14:31	KMP	TAL BUF
Total/NA	Prep	200.8			491256	09/11/19 08:35	NSW	TAL BUF
Total/NA	Analysis	200.8		1	492718	09/18/19 12:25	KMP	TAL BUF
Total/NA	Prep	245.1			492284	09/16/19 12:05	BMB	TAL BUF
Total/NA	Analysis	245.1		1	492364	09/16/19 16:21	BMB	TAL BUF

Client Sample ID: RB090319

Date Collected: 09/03/19 11:20

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:47	BWC	TAL BUR

Client Sample ID: RB090519

Date Collected: 09/04/19 17:50

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 19:55	BWC	TAL BUR

Client Sample ID: RB090419

Date Collected: 09/04/19 17:00

Date Received: 09/06/19 09:15

Lab Sample ID: 480-158837-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			147232	09/12/19 09:44	JM1	TAL BUR
Total/NA	Analysis	537 (modified)		1	147306	09/13/19 20:03	BWC	TAL BUR

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: New York State D.E.C.

Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
524.2		Water	1,1,2-Trichloro-1,2,2-trifluoroethane
524.2		Water	2-Butanone (MEK)
524.2		Water	2-Hexanone
524.2		Water	Acrylonitrile
524.2		Water	Allyl chloride
524.2		Water	Carbon disulfide
524.2		Water	Dichlorofluoromethane
524.2		Water	Ethyl ether
524.2		Water	m-Xylene & p-Xylene
524.2		Water	o-Xylene
524.2		Water	t-Butanol
524.2		Water	trans-1,4-Dichloro-2-butene
524.2		Water	Vinyl acetate

Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-20
ANAB	DoD	L2336	02-25-20
Connecticut	State Program	PH-0751	09-30-19 *
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
DE Haz. Subst. Cleanup Act (HSCA)	State Program	NA	02-01-20
Florida	NELAP	E87467	06-30-20
Florida	NELAP	E87467	06-01-20
Minnesota	NELAP	050-999-436	12-31-19
Minnesota	NELAP	050-999-436	12-31-19
New Hampshire	NELAP	2006	12-18-19
New Jersey	NELAP	VT972	06-30-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-20
New York	NELAP	10391	03-31-20
Pennsylvania	NELAP	68-00489	04-30-20
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State Program	LAO00298	12-30-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P330-11-00093	07-24-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State Program	VT-4000	12-31-19
Virginia	NELAP	460209	12-14-19
Virginia	NELAP	460209	12-14-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: New York State D.E.C.
Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
200.8	Metals (ICP/MS)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
200.8	Preparation, Total Metals	EPA	TAL BUF
245.1	Preparation, Mercury	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: New York State D.E.C.
 Project/Site: Carroll Town Landfill Site

Job ID: 480-158837-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-158837-1	TB09032019	Water	09/03/19 11:30	09/06/19 09:15	
480-158837-2	CTLMW102-090319	Water	09/03/19 14:30	09/06/19 09:15	
480-158837-3	CTLMW102I-090319	Water	09/03/19 12:21	09/06/19 09:15	
480-158837-4	CTLMW13-090419	Water	09/04/19 12:00	09/06/19 09:15	
480-158837-5	CTLMW117I-090419	Water	09/04/19 12:21	09/06/19 09:15	
480-158837-6	CTLMW117S-090419	Water	09/04/19 13:48	09/06/19 09:15	
480-158837-7	CTLMW117D-090419	Water	09/04/19 14:50	09/06/19 09:15	
480-158837-8	CTLMW113S-090519	Water	09/05/19 12:45	09/06/19 09:15	
480-158837-9	CTLMW112S-090519	Water	09/05/19 10:56	09/06/19 09:15	
480-158837-10	CTLMW112S-090519Q	Water	09/05/19 10:56	09/06/19 09:15	
480-158837-11	CTLMW118S-090519	Water	09/05/19 12:30	09/06/19 09:15	
480-158837-12	CTLMW114S-090519	Water	09/05/19 14:20	09/06/19 09:15	
480-158837-13	CTLMW115S-090519	Water	09/05/19 15:30	09/06/19 09:15	
480-158837-14	CTLMW116S-090519	Water	09/05/19 17:40	09/06/19 09:15	
480-158837-15	RB090319	Water	09/03/19 11:20	09/06/19 09:15	
480-158837-16	RB090519	Water	09/04/19 17:50	09/06/19 09:15	
480-158837-17	RB090419	Water	09/04/19 17:00	09/06/19 09:15	

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Chain of Custody Record

315755

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: Jim Tanguelle		Site Contact: L. Verde		Carrier: BY Hand		Date: 9-3-19		COC No: 2 of 4 COCs		
Company Name: Ecology Environmental Inc Address: 368 Pleasant View Dr City/State/Zip: Lancaster PA Phone: 716 684 8610 Fax: Project Name: Carroll Landfill Site: Project #10202941 PO # Callout 137346		Tel/Fax: Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: 2 weeks AUGUST 1 week LATE 2 days 1 day		Lab Contact:						Sampler: <input type="checkbox"/> For Lab Use Only: <input type="checkbox"/> Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No.: <input type="checkbox"/>		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Preferred Sample (V/N) Preferred MS/MSD (V/N)		Sample Specific Notes:			
TB09032019		9-3-19	11:30 AM	G	W	1						
CTLMW102-090319		9-3-19	14:30 PM	G	GW	6						
CTLMW102-090319 M/S		9-3-19	14:30 PM	G	GW	6						
CTLMW102-090319 MSD		9-3-19	14:30 PM	G	GW	6						
Page 109 of 118		9-3-19	12:21 PM	G	GW	6						
CTLMW13-090419		9-4-19	12:00 PM	G	GW	6						
CTLMW117E-090419		9-4-19	12:21 PM	G	GW	6						
CTLMW117S-090419		9-4-19	13:48 PM	G	GW	6						
CTLMW117D-090419		9-4-19	14:50 PM	G	GW	6						
CTLMW113S-090519		9-5-19	12:45 PM	G	GW	6						
CTLMW112S-090519		9-5-19	10:56 AM	G	GW	6						
CTLMW112S-090519 Q		9-5-19	10:56 AM	G	GW	6						
Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other												
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												
Comments: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: Company: EN		Colder Temp. (°C): Obs'd: _____		Received by: Kava Nafford Company: TA		Corr'd: _____ Therm ID No: _____				
Relinquished by: CH		Date/Time: 9-6-19/9:15		Date/Time: Received by: _____		Date/Time: 9-6-19 9:54AM		Date/Time: _____				
Relinquished by: _____		Company: _____		Date/Time: _____		Company: _____		Date/Time: _____				
Relinquished by: _____		Company: _____		Date/Time: _____		Received in Laboratory by: _____		Company: _____				

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: 9-6-19/9:15	Received by: Kava Nafford Company: TA	Corr'd: _____ Therm ID No: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Date/Time: 9-6-19 9:54AM
Relinquished by: _____	Company: _____	Date/Time: _____	Date/Time: _____
Relinquished by: _____	Company: _____	Date/Time: _____	Date/Time: _____

9/24/2019

Chain of Custody Record

315762

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Client Contact	Project Manager: <u>J Tapparella</u>	Site Contact: <u>L. Pfeifer</u>	Date: <u>9-1-19</u>
Company Name: <u>EcoLogix Environmental Inc</u>	Project Manager: <u>J Tapparella</u>	Carrier: <u>by Hand</u>	COC No: _____
Address: <u>365 Pleasant Street</u>	Analysis Turnaround Time		Sampler: _____
City/State/Zip: <u>Lancaster PA 17606</u>	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		For Lab Use Only: _____
Phone: <u>(716) 684-8660</u>	TAT if different from Below		Walk-in Client: _____
Fax: <u></u>	2 weeks <u>15 days</u>		Lab Sampling: _____
Project Name: <u>Cerroil Landfill</u>	1 week <u></u>		Job / SDG No.: _____
Site #/Address: <u>48020841</u>	2 days <u></u>		
P.O. # <u>Callout 137346</u>	1 day <u></u>		
Sample Identification	Sample Date	Sample Time	Sample Specific Notes:
CTLMW102-09-0319	9-3-19	14:30	GW 2
CTLMW102-090319MS	9-3-19	14:30	G GW 2
CTLMW102-090319MSD	9-3-19	14:30	G GW 2
RB090319	9-3-19	14:20	G W 2
CTLMW102I-090319	9-3-19	14:21	G GW 2
CTLMW117I-090419	9-4-19	12:21	G GW 2
CTLMW117S-090419	9-4-19	13:48	G GW 2
CTLMW117D-090419	9-4-19	14:30	G GW 2
CTLMW113-090419	9-4-19	12:00	G GW 2
RB090419	9-4-19	17:00	G GW 2
CTLMW113S-090519	9-4-19 12:45	G GW 2	X
CTLMW112S-090519	9-4-19 10:56	G GW 2	X

Preservation Used: 1=Ice; 2=HCl; 3=H₂SO₄; 4=HNO₃; 5=NaOH; 6=Other _____

Hazardous Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obsd: _____	Corrd.: _____	Therm ID No.: _____
Relinquished by: <u>CJR</u>	Company: <u>ENE</u>	Date/Time: <u>9-6-19/9:15</u>	Received by: <u>John Chard</u>	Company: <u>ENE</u> Date/Time: <u>9-6-19 09:15 AM</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company: Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: Date/Time:

9/24/2019

Chain of Custody Record

315756

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-0210 (0713)

Regulatory Program: DW NPDES RCRA Other:

Client Contact	Project Manager: J. T. Hancock	Site Contact: L. Deen	Date: 9-5-19		
Client Name: Ecology Environmental	Project Manager Tel/Fax:	Lab Contact:	Carrier: by hand		
Address: 36 & Pleasantview Dr	Analysis Turnaround Time		COC No: 4 of 4 COCs		
City/State/Zip: Lancaster, PA 17603	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Sampler:		
Phone: 716 684-8860	TAT if different from Below		For Lab Use Only: <input type="checkbox"/>		
Fax:	2 weeks <i>19 days</i>		Walk-in Client: <input type="checkbox"/>		
Project Name: Carroll Landfill	1 week <i>Contract</i>		Lab Sampling: <input type="checkbox"/>		
Site/Project # PO# Carroll Landfill	2 days		Job / SDG No.: <input type="checkbox"/>		
PO# Carroll Landfill	1 day				
Sample Specific Notes:					
Sample Identification	Sample Date	Sample Time	Type (C=Comp, G=Grab)	Matrix	# of Cont.
CTLMW1125-090519 Q	9-5-19	10:56	G	GW	2
CTLMW1185-090519	9-5-19	12:34	G	GW	2
CTLMW1145-090519	9-5-19	14:20	G	GW	2
CTLMW1155-090519	9-5-19	15:38	G	GW	2
RBO90519	9-5-19	17:50	G	GW	2
CTLMW1165-090519	9-5-19	17:40	G	GW	2
<i>Comments and Observations</i> <i>9-5-19</i>					
Preservation Used: 1= Ice, 2= HCl; 3= H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6= Other _____					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					
Special Instructions/QC Requirements & Comments:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: Company: ENE		Cooler Temp. (°C): Obs'd: Corrd: Therm ID No: _____	
Relinquished by: <i>J. Hancock</i>		Date/Time: 9-6-19 9:15 Received by: <i>Laura Mihnev</i> Company: TA		Date/Time: 9-6-19 9:15 AM	
Relinquished by:		Date/Time: Received by: Company:		Date/Time: Company:	
Relinquished by:		Date/Time: Received in Laboratory by: Company:		Date/Time: Company:	

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2260 Fax: 716-691-7991

Chain of Custody Record



Environment Testing
TestAmerica

Client Information (Sub Contract Lab)

Client Contact:	Sampler:	Lab P.M. Johnson, Orlette S	Job #:	480-158837-1
Shipping/Receiving Company:	Phone:	E-mail: orlette.johnson@testamericainc.com	Date/Time:	480-158837-1
TestAmerica Laboratories, Inc.			Page:	Page 1 of 2
Address:	Due Date Requested:	Accreditations Required (See note):		
30 Community Drive, Suite 11, City: South Burlington	9/18/2019 TAT Requested (days):	NELAP - New York		
State, Zip: VT, 05403				
Phone: 802-860-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: Carroll Town Landfill Site	Project #: 48020841			
Site:	SSOW#:			
Analysis Requested				
Total Number of Contaminates				
Preservation Codes:				
Other:				
Special Instructions/Note:				
<p>Field Collected Sample (Yes or No)</p> <p>Pesticides/MSDS (Yes or No)</p> <p>PCP/DA3535-LWT (MOP) PAs, Standard List (21 analytes)</p>				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, O=waste/oil, BT=tissue, A=air)
				Preservation Code
CTL MW102-090319 (480-158837-2)	9/3/19	14:30	Water	X
CTL MW102-090319 (480-158837-2MS)	9/3/19	14:30	MS	X
CTL MW102-090319 (480-158837-2MSD)	9/3/19	14:30	MSD	X
CTL MW102L-090319 (480-158837-3)	9/3/19	12:21	Water	X
CTL MW13-090419 (480-158837-4)	9/4/19	12:00	Water	X
CTL MW135L-090419 (480-158837-5)	9/4/19	12:21	Water	X
CTL MW117S-090419 (480-158837-6)	9/4/19	13:48	Water	X
CTL MW117D-090419 (480-158837-7)	9/4/19	14:50	Water	X
CTL MW1135-090519 (480-158837-8)	9/5/19	12:45	Water	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysts/testers/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:	Relinquished by: <i>Melissa J. Kello</i>	Primary Deliverable Rank: 2	Time: <i>10:30 AM</i>	Method of Shipment:
Relinquished by:	Date/Time:	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	Archive For _____ Months
Relinquished by:	Date/Time:	<input type="checkbox"/> Special Instructions/QC Requirements:		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Company

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Eurofins TestAmerica, Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing
TestAmerica

Client Information (Sub Contract Lab)

Sampler: _____ Carrier Tracking No(s): _____
Phone: _____ Lab P/M: _____ State of Origin: _____
E-Mail: _____

Client Contact:

Shipping/Receiving

Company:

TestAmerica Laboratories, Inc.

Address:

30 Community Drive, Suite 11,

City: South Burlington

State/Zip: VT, 05403

Phone: 802-660-1990(Tel)

Email: 802-660-1919(Fax)

Project Name:

Carroll Town Landfill Site

Site:

Due Date Requested:

9/18/2019

TAT Requested (days):

PO #:

WO #:

Project #:

48020541

SSOW#:

Accreditations Required (See note):

NELAP - New York

Analysis Requested

Total Number of Contaminators

21

Preservation Codes:

A - HCl
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Anchor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Other: _____

Sample Identification - Client ID (Lab ID)

Sample Date: _____ Sample Time: _____ Sample Type: _____ Matrix: _____
(C=comp, G=grab)
Preservation Code: _____

Special Instructions/Note: _____

Sample ID	Date	Time	Type	Matrix	Preservation Code
CTL MW 112S-090519 (480-158837-9)	9/5/19	10:56	Eastern	Water	X
CTL MW 112C-090519Q (480-158837-10)	9/5/19	10:56	Eastern	Water	X
CTL MW 118S-090519 (480-158837-11)	9/5/19	12:30	Eastern	Water	X
CTL MW 114S-090519 (480-158837-12)	9/5/19	14:20	Eastern	Water	X
CTL MW 115S-090519 (480-158837-13)	9/5/19	15:30	Eastern	Water	X
CTL MW 116S-090519 (480-158837-14)	9/5/19	17:40	Eastern	Water	X
RB 090319 (480-158837-15)	9/3/19	11:20	Eastern	Water	X
RB 090519 (480-158837-16)	9/4/19	17:00	Eastern	Water	X

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analytic & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. 1

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)

Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Empty Kit Relinquished by:

Relinquished by: Unknown Date/Time: 09/16/19 10:30 Received by: TA Basal Method of Shipment: Date/Time:
Date/Time: 09/16/19 10:30 Received by: Company Date/Time: Company

Relinquished by:

Relinquished by: Unknown Date/Time: 09/16/19 10:30 Received by: Company Date/Time: Company

Relinquished by:

Relinquished by: Unknown Date/Time: 09/16/19 10:30 Received by: Company Date/Time: Company

Custody Seals intact: Yes □ No Yes

Custody Seal No.: 993109

Cooler Temperature(s) °C and Other Remarks: 1, 1

Ver: 01/16/2019

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Chain of Custody Record

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analytic & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testmatrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

<i>Unconfirmed</i>	Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months
		Special Instructions/QC Requirements:				

Empty Kit Relinquished by:	Date/Time:	Time:	Method of Shipment:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.: 993299	Cooler Temperature(s) °C and Other Remarks: 1. v	

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ORIGIN ID:DKKA (716) 691-2600
CHRIS KOLB
TESTAMERICA
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

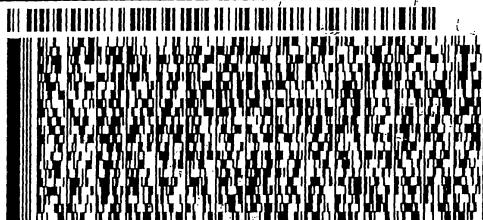
SHIP TO
ACTWG
CAB:
DIMS

BIL

RT 916
F 917

SS1C1/9106/2104C

TO SAMPLE MGT.
TA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 860-1990
REF: TA BURLINGTON



WED - 11 SEP 3:00P
TRK# 4276 0720 9310 STANDARD OVERNIGHT

XH BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-158837-1

Login Number: 158837

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ene
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-158837-1

Login Number: 158837

List Source: Eurofins TestAmerica, Burlington

List Number: 2

List Creation: 09/11/19 11:40 AM

Creator: Hall, Samuel C

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	993299	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	True	1.4°C	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.	16
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time (excluding tests with immediate HTs)	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		