



Cortland County Soil and Water Conservation District

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www.cortlandswcd.org

SWCD...established to promote the conservation and wise use of our county's natural resources

December 17, 2021

Joshua Cook
NYSDEC - Division of Environmental Remediation
615 Erie Blvd. West
Syracuse, NY 13204-2400

Dear Mr. Cook:

Enclosed is the 2021 Quarter 3 Environmental Monitoring Report for Cortland County's Towslee Landfill, also known as the Old Cortland County Landfill. Please contact our office at (607) 756-5991 if you have any questions.

Sincerely,

Kathleen McGrath
Water Quality Specialist

cc: Toby Bonham, Cortland Co. Highway Dept.
James Gruppe, NYSDEC Region 7
Amanda Barber, SWCD/files

Environmental Monitoring Report Towslee Landfill, Cortland County, NY

Quarter 3, 2021

Prepared for
Cortland County Highway Department

By
Cortland County Soil and Water Conservation District

December 17, 2021



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Section 1 Introduction

Towslee Landfill is approximately 36 acres in size, and is part of a larger solid waste disposal site of 540 acres owned by Cortland County in the Towns of Cortlandville and Solon. The Towslee Landfill has previously been called the Old County Landfill and the Town Line Landfill.

DEC requires environmental monitoring at the landfill. The monitoring follows the Post-Closure Monitoring and Site Maintenance Plan prepared by Barton & Loguidice, D.P.C (B&L) in October, 2002 and revised in June, 2006. Towslee Landfill is required to be monitored during Quarters 2-4. Of these three quarters, one quarter is monitored for Baseline parameters and two quarters are monitored for Routine parameters. The Baseline quarter rotates among the three quarters.

This report summarizes 2021 Quarter 3 (Routine) monitoring activities at the Towslee Landfill.

Section 2 Site History

Placement of waste at Towslee began in the 1940s by a private disposal company. In the 1960s, the site was leased to the City of Cortland for waste disposal. In 1972, Cortland County purchased the site and began landfill operations at Towslee Landfill. Towslee Landfill was open for disposal of municipal solid waste until 1987 and for construction and demolition debris until 1992.

A Remedial Investigation/Feasibility Study (RI/FS) was conducted for Cortland County by Barton and Loguidice (B&L) in response to NYSDEC Order of Consent #B7-0486-12-95, effective May 31, 1996. The Towslee Landfill was classified by NYSDEC as a Class 2 Inactive Hazardous Waste Site. The Remedial Investigation was completed in March, 1998 and the Feasibility Study was completed in July, 1998.

DEC issued a Record of Decision (ROD) in March, 1999. Remedial activities at the landfill, which included landfill capping, were substantially completed in December 2001 and the Towslee Landfill was reclassified as a Class 4 Inactive Hazardous Waste Site, assigned site number 7-12-001.

The B&L Remedial Investigation concluded in 1997 that there was mild landfill leachate contamination of groundwater in the vicinity of Wells MW-2A/B and MW-7A. In addition, low-level leachate contamination was detected in the vicinity of Well MW-1A. Groundwater contamination occurred primarily in the overburden and extended downgradient of the site about 450 feet.

Section 3 Methods

3.1 Schedule

<u>Quarter</u>	<u>Analyses</u>	<u>Date Sampled</u>
First Quarter:	-- Sampling not required --	
Second Quarter:	Routine	June 14-16, 2021
Third Quarter:	Routine	September 13-14, 2021
Fourth Quarter:	Baseline	To be determined

3.2 Monitoring Locations

Groundwater: Thirteen wells are monitored at Towslee Landfill (Figure 1) including one each bedrock and overburden upgradient wells, and seven bedrock wells and four overburden downgradient wells:

Upgradient	<u>Bedrock</u> CD-1RA	<u>Overburden</u> CD-1
Downgradient	<u>Bedrock</u> MW-1B MW-2B MW-3A MW-3B MW-4A MW-5A MW-6B	<u>Overburden</u> MW-1A MW-2A MW-6A MW-7A

Combustible Gas: Testing for the presence of combustible gas (methane) is conducted associated with landfill monitoring. All of the wells and the scale house basement (ambient air) are monitored during Quarters 2-4.

3.3 Sampling and Analysis:

Water quality analyses were conducted in accordance with 1998 Part 360 regulations. Cortland County Soil and Water Conservation District staff conducted methane monitoring and collected water samples and field parameter data. Eurofins TestAmerica Laboratories, Inc. (TestAmerica) performed all laboratory analyses for this quarter:

Eurofins TestAmerica Laboratories, Buffalo (NYELAP # 10026)
10 Hazelwood Drive
Amherst, NY 14228-2223

In this quarter, Routine parameters were sampled for at all locations. When turbidity exceeded 50 NTU, a sample was collected for dissolved metals analysis in addition to total metals. In addition, combustible gas was sampled at each well.

Groundwater data are compared to NYS water quality/drinking water standards to assess current conditions. Tables 1 and 2 summarize results for groundwater monitoring wells. Contraventions of NYS standards are highlighted. Quarterly data are also compared annually to historic data to evaluate trends. Trend assessments are conducted in the Quarter 4 report.

The UDS Level 2 laboratory analytical report, gas data and field data sheets for this quarter can be found in Appendix A. The full Towslee data record is available from the Cortland County SWCD upon request.

Section 4 Groundwater Monitoring Results

4.1 Contraventions of Groundwater Quality Standards

Groundwater monitoring well results can be found in Table 1 (field/conventional parameters) and Table 2 (metals).

Conventional and Field Parameters

Turbidity - Turbidity exceeded the NYS standard of 5 NTU at both upgradient wells CD-1 (343NTU) and CD-1RA (14.5 NTU) and 4 of the 11 downgradient wells (exceeded range 5.72 to 199 NTU).

No other conventional or field parameters exceeded water quality standards at the upgradient wells.

pH - The pH water quality standard is contravened unless it is between 6.5 and 8.5. The pH standard was lower than the lower limit at 7 of the 11 downgradient wells (exceeded range 6.13 – 6.46).

Ammonia - The ammonia standard of 2 mg/L was exceeded at MW-2A (7.6 mg/L), consistent with past findings at this well.

Total Dissolved Solids (TDS) - The TDS standard of 500 mg/L was exceeded at MW-2B (871 mg/L).

No other conventional or field parameters exceeded water quality standards at downgradient wells.

Metals

Iron - The NYS standard for total iron is 0.3 mg/L, and is an aesthetic standard. This standard was exceeded at both upgradient wells CD-1 (66.6 mg/L) and CD-1RA (2.2 mg/L) and 5 of the 11 downgradient wells (exceeded range 0.32 – 15.6 mg/L). Iron frequently exceeds the standard

at the Towslee Landfill. The elevated iron levels are believed to be caused at least in part by particulates in the unfiltered samples.

Manganese - The NYS standard for total manganese is 0.3 mg/L and is an aesthetic standard. The manganese standard was exceeded for total manganese at both upgradient wells CD-1 (12.5 mg/L) and CD-1RA (0.34 mg/L) and 7 of the 11 downgradient wells (exceeded range 0.63 – 10 mg/L) as well as dissolved manganese at MW-2A (10.8 mg/L). The manganese standard has frequently been exceeded in past monitoring, which may be caused in part by particulates in unfiltered samples.

Lead - The lead standard of 0.015 mg/L was contravened for total lead at the upgradient well CD-1 (0.04 mg/L).

No other metals contravened water quality standards at upgradient wells.

Sodium - The NYS sodium guidelines for people on severely and moderately restricted sodium diets are 20 mg/L and 270 mg/L, respectively. The more restrictive diet guideline was exceeded for total sodium at 2 downgradient wells, MW-2B (45.2 mg/L) and MW-7A (35.5 mg/L) during this quarter. The less restrictive diet guideline was not exceeded at any wells during this quarter.

No other metals contravened water quality standards at downgradient wells.

Volatile Organic Compounds (VOCs)

Volatile organic compounds (VOCs) were not sampled for in Quarter 3.

Section 5 Landfill Gas Testing

Landfill gas measurements were taken at all monitoring wells. Methane was not detected (DL = at 00.1%) at any of the wells or other ambient locations off the landfill property. Maintenance building vent sites were not monitored because a venting system was installed on this building at some point in the past.

Section 6 Quality Control

Independent data validation was not required during this quarter. TestAmerica conducted standard internal QA/QC on the samples. Of 414 data records, 16 records (3.9%) were flagged because they did not meet laboratory QA/QC requirements.

The analytical data appear to be an adequate characterization of Towslee Landfill groundwater quality for this quarter.

Table 1. Contraventions of NYS Water Quality Standards for Field and Conventional Parameters, Towslee Landfill, Quarter 3, 2021.

Parameter	Units	NYS Water Quality Standard		Upgradient		Downgradient										
				OB	BR	OB	BR	OB	BR	BR	BR	BR	BR	OB	BR	OB
				CD-1	CD-1RA	MW-1A	MW-1B	MW-2A	MW-2B	MW-3A	MW-3B	MW-4A	MW-5A	MW-6A	MW-6B	MW-7A
Temperature	°C	--		13.3	12.2	17.1	12.4	16.2	14.6	13.9	12.3	13.5	16.5	14.3	13.3	15.4
Eh/ORP	mV	--		166.2	162.4	56.6	163.2	22.9	72.3	159.6	132.6	137.7	124.1	153.2	146.4	12.3
pH	--	6.5 - 8.5	a	7.55	7.42	7.08	7.31	6.16	6.14	6.13	6.37	6.29	7.07	6.46	6.38	7.02
Conductivity	µS/cm	--		212	228.1	321.7	181.9	535	1015	132.4	270.6	611	262.6	402.4	313	500
Dissolved Oxygen				3.29	1.9	2.33	2.58	4.32	3.85	3.1	4.25	3.15	3.72	2.97	1.98	2.32
Color	Units	15	a, b	--	--	--	--	--	--	--	--	--	--	--	--	--
Turbidity	NTU	5	a	343	14.5	9.12	4.63	65.6	1.3	4.96	1.76	3.5	3.22	199	5.72	3.9
Alkalinity as CaCO ₃	mg/L	--		128J	152	125J	102	303	605	58.4	146	438	146J	289	137	291
Hardness as CaCO ₃	mg/L	--		373	156	162	106	240	595	57.2	163	412	142	283	151	239
Total Dissolved Solids	mg/L	500	a	189	198	203	135	459	871	164	214	443	198	325	203	339
Chloride	mg/L	250	a, b	<1	1.2	35.8	11.5	16.5	88	<1	21.6J	10.1	4.7	1.8	34.8	13.9
Sulfate	mg/L	250	a, b	17.6	19.4	19.7	10.3	<5	<5	<5	11.9J	<5	17.6	<5	17.3	<5
Bromide	mg/L	2	a	<0.2	<0.2	<0.2	<0.2	<0.4	0.87	<0.2	0.21	<0.4	<0.2	<0.2	<0.2	<0.4
NO ₃	mg/L	10	a, b	<0.05J	<0.05J	<0.05	<0.05J	0.081	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05
NH ₃	mg/L	2	a	0.048	0.029	1	<0.02	7.6	0.45	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.12J
TKN	mg/L	--		1.5	0.31	0.37	0.22	7	1.3	0.9	<0.2	0.3	<0.2	1.5	0.2	1.2
COD	mg/L	--		<10	<10	<10	<10	13.5	11.3	33.4	<10	<10	<10	21.8	<10	25.8
BOD	mg/L	--		<2J	<2	<2	<2	2.4J	<2	<2	<2	<2	<2	<2	<2	<2
TOC	mg/L	--		<1	<1	<1	<1	7.1	5.2	12.4	1	2.4	<1	73.1	1.2	9.4
Total Phenolics	mg/L	0.001	a	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01J	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cyanide	mg/L	0.2	a, b	--	--	--	--	--	--	--	--	--	--	--	--	--

a - Part 703 Water Quality Standard (Class GA waters)

b - Part 5 Drinking Water MCL

OB - overburden well

BR - bedrock well

X.XX indicates contravention of standard.

J - value is estimated because sample did not meet laboratory QA/QC protocols

Table 2. Contraventions of NYS Water Quality Standards for Metals (mg/L), Towslee Landfill, Quarter 3, 2021.

Parameter	NYS Water Quality Standard	Total Metals													Dissolved Metals		
		Upgradient		Downgradient											Upgradient	Downgradient	
		OB CD-1	BR CD-1RA	OB MW-1A	BR MW-1B	OB MW-2A	BR MW-2B	BR MW-3A	BR MW-3B	BR MW-4A	BR MW-5A	OB MW-6A	BR MW-6B	OB MW-7A	OB CD-1	OB MW-2A	OB MW-6A
Aluminum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	0.003 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	0.025 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	1 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	0.004 b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Boron	1 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.005 a, b	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Calcium	--	109	45.6	47.8	31	71.4	179	19	44.7	123	39.2	93.9	43.2	72.8	39.3	86.1	89.7
Chromium	0.05 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium (VI)	0.05 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	0.2 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	0.3 a, b	66.6J	2.2J	0.53	0.64	12	0.26	0.32	<0.05	0.12	0.096	15.6J	0.27	5J	<0.05	<0.05	<0.05
Lead	0.015 b	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Magnesium	--	24.8	10.2	10.2	6.9	14.9	36.2	2.4	12.4	25.6	10.7	11.7	10.6	13.9	8.7	16.8	9.6
Manganese	0.3 a, b	12.5	0.34	0.12	1.3	10	4.9	0.82	0.045	0.63	0.083	1.1	0.067	3.4	<0.003	10.8	0.14
Mercury	7E-04 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	0.1 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	--	9.2	1.1	1.2	0.52	11.2	2.1	1.2	0.99	1.5	0.83	5.5	1	2.4	1.2	10.7	2.2
Sodium	20 a, b	4.8	5.8	13.1	8.4	14	45.2	1	8.8	17.4	9.4	4.8	19.9	35.5	4.1	15.5	5.2
Selenium	0.01 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	0.05 a	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	0.002 b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	5 b	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

a - Part 703 Water Quality Standard (Class GA waters)

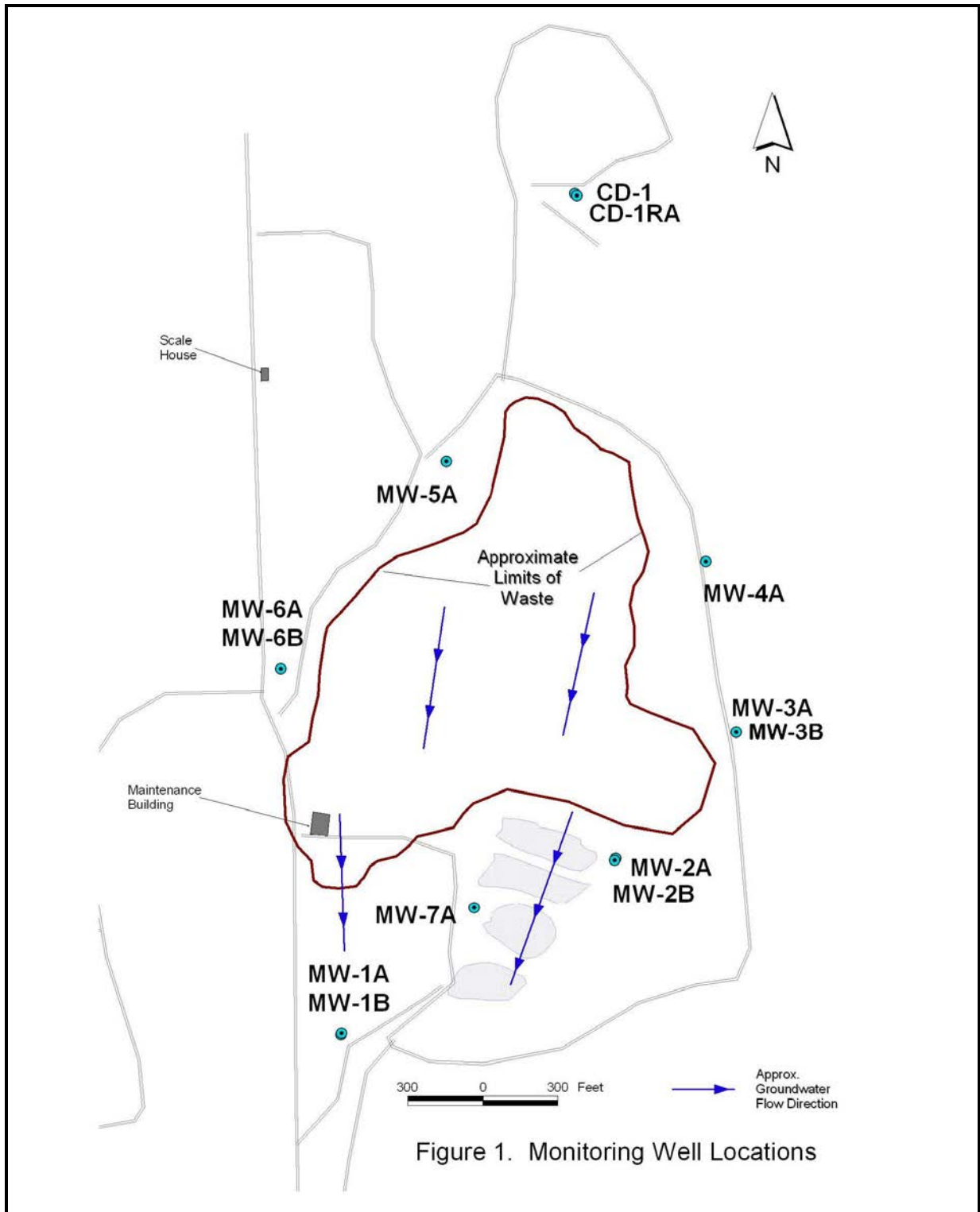
b - Part 5 Drinking Water MCL

X.XX indicates contravention of standard.

J - value is estimated because sample did not meet laboratory QAQC protocols

OB = overburden well

BR = Bedrock well



Appendix A

Analytical Laboratory and Field Reports

Towslee Landfill

ANALYTICAL REPORT

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

Laboratory Job ID: 480-189539-1

Client Project/Site: Towslee Landfill - Routine
Sampling Event: Towslee Landfill - Routine
Revision: 1

For:

Cortland Cty Soil & Water Cons District
100 Grange Place
Rm 202
Cortland, New York 13045

Attn: Ms. Kathleen McGrath



Authorized for release by:

9/30/2021 11:36:41 AM

Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

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

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

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

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Definitions/Glossary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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.

General Chemistry

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	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Case Narrative

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Job ID: 480-189539-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-189539-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 9/30/2021. The report (revision 1) is being revised due to: Revision created to fix dissolved oxygen and field forms.

Receipt

The samples were received on 9/15/2021 8:00 AM and 9/15/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 2.5° C, 2.6° C, 2.8° C, 3.0° C, 3.1° C, 3.4° C and 3.7° C.

Receipt Exceptions

Revision created to fix dissolved oxygen and field forms.

HPLC/IC

Method 300.0: The following samples were diluted due to the abundance of non-target analytes: MW-2A (480-189539-2), MW-2B (480-189539-3), MW-4A (480-189539-6) and MW-7A (480-189539-10). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6010C: The low level continuing calibration verification (CCVL 480-596950/42) recovered above the upper control limit for Total Iron. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples MW-6A (480-189539-8), MW-7A (480-189539-10), CD-1 (480-189575-1), CD-1RA (480-189575-2), (480-189539-D-3-B MS), (480-189539-D-3-C MSD) and (480-189539-D-3-A PDS) was not performed.

Method 6010C: The following sample was diluted due to the presence of Total Silicon which interferes with Lead: CD-1 (480-189575-1). Elevated reporting limits (RLs) are provided.

Method 6010C: The low level continuing calibration verification (CCVL 480-596950/53) recovered above the upper control limit for Total Iron. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples CD-1 (480-189575-1) and CD-1RA (480-189575-2) was not performed.

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

General Chemistry

Method 350.1: The results reported for the following sample do not concur with results previously reported for this site: MW-1A (480-189539-1). Reanalysis was performed, and the result(s) confirmed.

Method 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-189575-1), CD-1RA (480-189575-2) and MW-1B (480-189575-3).

Method 353.2: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-189575-1).

Method 353.2: The results reported for the following sample do not concur with results previously reported for this site: CD-1 (480-189575-1). Reanalysis was performed, and the result(s) confirmed.

Case Narrative

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Job ID: 480-189539-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method SM 5210B: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: CD-1 (480-189575-1).

Method SM 5310C: The results reported for the following sample do not concur with results previously reported for this site: MW-6A (480-189539-8). Reanalysis was performed, and the result(s) confirmed.

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

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-1A

Lab Sample ID: 480-189539-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47.8		0.50		mg/L	1		6010C	Total/NA
Iron	0.53		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	13.1		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	162		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	125	F1	20.0		mg/L	2		310.2	Total/NA
Ammonia	1.0		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.37		0.20		mg/L	1		351.2	Total/NA
Sulfate	19.7		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	203		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	35.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.1				SU	1		Field Sampling	Total/NA
Field Conductivity	321.7				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	9.12				NTU	1		Field Sampling	Total/NA
Field EH/ORP	56.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.33				mg/L	1		Field Sampling	Total/NA
Static Water Level	4.53				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-2A

Lab Sample ID: 480-189539-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71.4		0.50		mg/L	1		6010C	Total/NA
Iron	12.0		0.050		mg/L	1		6010C	Total/NA
Magnesium	14.9		0.20		mg/L	1		6010C	Total/NA
Manganese	10		0.0030		mg/L	1		6010C	Total/NA
Potassium	11.2		0.50		mg/L	1		6010C	Total/NA
Sodium	14.0		1.0		mg/L	1		6010C	Total/NA
Calcium	86.1		0.50		mg/L	1		6010C	Dissolved
Magnesium	16.8		0.20		mg/L	1		6010C	Dissolved
Manganese	10.8		0.0030		mg/L	1		6010C	Dissolved
Potassium	10.7		0.50		mg/L	1		6010C	Dissolved
Sodium	15.5		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	240		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	303		50.0		mg/L	5		310.2	Total/NA
Ammonia	7.6		0.10		mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	7.0		0.40		mg/L	2		351.2	Total/NA
Nitrate as N	0.081		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	13.5		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	459		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	16.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Biochemical Oxygen Demand	2.4	b	2.0		mg/L	1		SM 5210B	Total/NA
Total Organic Carbon - Duplicates	7.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	6.9		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	7.3		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.16				SU	1		Field Sampling	Total/NA
Field Conductivity	535				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	65.6				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-2A (Continued)

Lab Sample ID: 480-189539-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field EH/ORP	22.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.32				mg/L	1		Field Sampling	Total/NA
Static Water Level	5.33				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-2B

Lab Sample ID: 480-189539-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	179		0.50		mg/L	1		6010C	Total/NA
Iron	0.26		0.050		mg/L	1		6010C	Total/NA
Magnesium	36.2		0.20		mg/L	1		6010C	Total/NA
Manganese	4.9		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.1		0.50		mg/L	1		6010C	Total/NA
Sodium	45.2		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	595		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.87		0.40		mg/L	2		300.0	Total/NA
Alkalinity, Total	605		80.0		mg/L	8		310.2	Total/NA
Ammonia	0.45		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.3		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	11.3		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	871		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	88.0		2.0		mg/L	2		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	5.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	5.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	5.4		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.14				SU	1		Field Sampling	Total/NA
Field Conductivity	1015				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.30				NTU	1		Field Sampling	Total/NA
Field EH/ORP	72.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.85				mg/L	1		Field Sampling	Total/NA
Static Water Level	8.08				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-3A

Lab Sample ID: 480-189539-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	19.0		0.50		mg/L	1		6010C	Total/NA
Iron	0.32		0.050		mg/L	1		6010C	Total/NA
Magnesium	2.4		0.20		mg/L	1		6010C	Total/NA
Manganese	0.82		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.2		0.50		mg/L	1		6010C	Total/NA
Sodium	1.0		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	57.2		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	58.4		10.0		mg/L	1		310.2	Total/NA
Total Kjeldahl Nitrogen	0.90		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	33.4		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	164		10.0		mg/L	1		SM 2540C	Total/NA
Total Organic Carbon - Duplicates	12.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	12.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	12.7		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.13				SU	1		Field Sampling	Total/NA
Field Conductivity	132.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-3A (Continued)

Lab Sample ID: 480-189539-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	4.96				NTU	1		Field Sampling	Total/NA
Field EH/ORP	159.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.10				mg/L	1		Field Sampling	Total/NA
Static Water Level	9.09				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-3B

Lab Sample ID: 480-189539-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	44.7		0.50		mg/L	1		6010C	Total/NA
Magnesium	12.4		0.20		mg/L	1		6010C	Total/NA
Manganese	0.045		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.99		0.50		mg/L	1		6010C	Total/NA
Sodium	8.8		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	163		0.50		mg/L	1		SM 2340B	Total/NA
Bromide	0.21		0.20		mg/L	1		300.0	Total/NA
Alkalinity, Total	146		20.0		mg/L	2		310.2	Total/NA
Sulfate	11.9	F1	5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	214		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	21.6	F1	1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	1.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	1.0		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.0		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.37				SU	1		Field Sampling	Total/NA
Field Conductivity	270.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.76				NTU	1		Field Sampling	Total/NA
Field EH/ORP	132.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.25				mg/L	1		Field Sampling	Total/NA
Static Water Level	15.41				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-4A

Lab Sample ID: 480-189539-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	123		0.50		mg/L	1		6010C	Total/NA
Iron	0.12		0.050		mg/L	1		6010C	Total/NA
Magnesium	25.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.63		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.5		0.50		mg/L	1		6010C	Total/NA
Sodium	17.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	412		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	438		60.0		mg/L	6		310.2	Total/NA
Total Kjeldahl Nitrogen	0.30		0.20		mg/L	1		351.2	Total/NA
Total Dissolved Solids	443		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	10.1		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	2.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	2.3		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	2.5		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.29				SU	1		Field Sampling	Total/NA
Field Conductivity	611				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.50				NTU	1		Field Sampling	Total/NA
Field EH/ORP	137.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-4A (Continued)

Lab Sample ID: 480-189539-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	3.15				mg/L	1		Field Sampling	Total/NA
Static Water Level	8.47				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-5A

Lab Sample ID: 480-189539-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	39.2		0.50		mg/L	1		6010C	Total/NA
Iron	0.096		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.7		0.20		mg/L	1		6010C	Total/NA
Manganese	0.083		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.83		0.50		mg/L	1		6010C	Total/NA
Sodium	9.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	142		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	146	F1	20.0		mg/L	2		310.2	Total/NA
Sulfate	17.6		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	198		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	4.7		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Conductivity	262.6				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.22				NTU	1		Field Sampling	Total/NA
Field EH/ORP	124.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.72				mg/L	1		Field Sampling	Total/NA
Static Water Level	8.97				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-6A

Lab Sample ID: 480-189539-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	93.9		0.50		mg/L	1		6010C	Total/NA
Iron	15.6	^+	0.050		mg/L	1		6010C	Total/NA
Magnesium	11.7		0.20		mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030		mg/L	1		6010C	Total/NA
Potassium	5.5		0.50		mg/L	1		6010C	Total/NA
Sodium	4.8		1.0		mg/L	1		6010C	Total/NA
Calcium	89.7		0.50		mg/L	1		6010C	Dissolved
Magnesium	9.6		0.20		mg/L	1		6010C	Dissolved
Manganese	0.14		0.0030		mg/L	1		6010C	Dissolved
Potassium	2.2		0.50		mg/L	1		6010C	Dissolved
Sodium	5.2		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	283		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	289		30.0		mg/L	3		310.2	Total/NA
Total Kjeldahl Nitrogen	1.5		0.20		mg/L	1		351.2	Total/NA
Nitrate as N	0.14		0.050		mg/L	1		353.2	Total/NA
Chemical Oxygen Demand	21.8		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	325		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	73.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	72.7		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	73.5		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.46				SU	1		Field Sampling	Total/NA
Field Conductivity	402.4				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	14.3				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-6A (Continued)

Lab Sample ID: 480-189539-8

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	199				NTU	1		Field Sampling	Total/NA
Field EH/ORP	153.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.97				mg/L	1		Field Sampling	Total/NA
Static Water Level	11.72				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-6B

Lab Sample ID: 480-189539-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	43.2		0.50		mg/L	1		6010C	Total/NA
Iron	0.27		0.050		mg/L	1		6010C	Total/NA
Magnesium	10.6		0.20		mg/L	1		6010C	Total/NA
Manganese	0.067		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.0		0.50		mg/L	1		6010C	Total/NA
Sodium	19.9		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	151		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	137		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.20		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.3		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	203		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	34.8		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	1.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	1.2		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	1.2		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	6.38				SU	1		Field Sampling	Total/NA
Field Conductivity	313				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	5.72				NTU	1		Field Sampling	Total/NA
Field EH/ORP	146.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.98				mg/L	1		Field Sampling	Total/NA
Static Water Level	11.88				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-7A

Lab Sample ID: 480-189539-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	72.8		0.50		mg/L	1		6010C	Total/NA
Iron	5.0	^+	0.050		mg/L	1		6010C	Total/NA
Magnesium	13.9		0.20		mg/L	1		6010C	Total/NA
Manganese	3.4		0.0030		mg/L	1		6010C	Total/NA
Potassium	2.4		0.50		mg/L	1		6010C	Total/NA
Sodium	35.5		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	239		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	291		50.0		mg/L	5		310.2	Total/NA
Ammonia	0.12	F1	0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.2		0.20		mg/L	1		351.2	Total/NA
Chemical Oxygen Demand	25.8		10.0		mg/L	1		410.4	Total/NA
Total Dissolved Solids	339		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	13.9		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Total Organic Carbon - Duplicates	9.4		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 1	9.1		1.0		mg/L	1		SM 5310C	Total/NA
TOC Result 2	9.6		1.0		mg/L	1		SM 5310C	Total/NA
Field pH	7.02				SU	1		Field Sampling	Total/NA
Field Conductivity	500				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-7A (Continued)

Lab Sample ID: 480-189539-10

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.9				NTU	1		Field Sampling	Total/NA
Field EH/ORP	12.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.32				mg/L	1		Field Sampling	Total/NA
Static Water Level	4.43				ft	1		Field Sampling	Total/NA

Client Sample ID: CD-1

Lab Sample ID: 480-189575-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	109		0.50		mg/L	1		6010C	Total/NA
Iron	66.6	^+	0.050		mg/L	1		6010C	Total/NA
Lead	0.040		0.020		mg/L	2		6010C	Total/NA
Magnesium	24.8		0.20		mg/L	1		6010C	Total/NA
Manganese	12.5		0.0030		mg/L	1		6010C	Total/NA
Potassium	9.2		0.50		mg/L	1		6010C	Total/NA
Sodium	4.8		1.0		mg/L	1		6010C	Total/NA
Calcium	39.3		0.50		mg/L	1		6010C	Dissolved
Magnesium	8.7		0.20		mg/L	1		6010C	Dissolved
Potassium	1.2		0.50		mg/L	1		6010C	Dissolved
Sodium	4.1		1.0		mg/L	1		6010C	Dissolved
Hardness as calcium carbonate	373		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	128	F1	20.0		mg/L	2		310.2	Total/NA
Ammonia	0.048		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.5		0.20		mg/L	1		351.2	Total/NA
Sulfate	17.6		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	189		10.0		mg/L	1		SM 2540C	Total/NA
Field pH	7.55				SU	1		Field Sampling	Total/NA
Field Conductivity	212.0				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	343				NTU	1		Field Sampling	Total/NA
Field EH/ORP	166.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.29				mg/L	1		Field Sampling	Total/NA
Static Water Level	8.22				ft	1		Field Sampling	Total/NA

Client Sample ID: CD-1RA

Lab Sample ID: 480-189575-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	45.6		0.50		mg/L	1		6010C	Total/NA
Iron	2.2	^+	0.050		mg/L	1		6010C	Total/NA
Magnesium	10.2		0.20		mg/L	1		6010C	Total/NA
Manganese	0.34		0.0030		mg/L	1		6010C	Total/NA
Potassium	1.1		0.50		mg/L	1		6010C	Total/NA
Sodium	5.8		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	156		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	152		20.0		mg/L	2		310.2	Total/NA
Ammonia	0.029		0.020		mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.31		0.20		mg/L	1		351.2	Total/NA
Sulfate	19.4		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	198		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	1.2		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Conductivity	228.1				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: CD-1RA (Continued)

Lab Sample ID: 480-189575-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	12.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	14.5				NTU	1		Field Sampling	Total/NA
Field EH/ORP	162.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.90				mg/L	1		Field Sampling	Total/NA
Static Water Level	6.00				ft	1		Field Sampling	Total/NA

Client Sample ID: MW-1B

Lab Sample ID: 480-189575-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	31.0		0.50		mg/L	1		6010C	Total/NA
Iron	0.64		0.050		mg/L	1		6010C	Total/NA
Magnesium	6.9		0.20		mg/L	1		6010C	Total/NA
Manganese	1.3		0.0030		mg/L	1		6010C	Total/NA
Potassium	0.52		0.50		mg/L	1		6010C	Total/NA
Sodium	8.4		1.0		mg/L	1		6010C	Total/NA
Hardness as calcium carbonate	106		0.50		mg/L	1		SM 2340B	Total/NA
Alkalinity, Total	102		20.0		mg/L	2		310.2	Total/NA
Total Kjeldahl Nitrogen	0.22		0.20		mg/L	1		351.2	Total/NA
Sulfate	10.3		5.0		mg/L	1		9038	Total/NA
Total Dissolved Solids	135		10.0		mg/L	1		SM 2540C	Total/NA
Chloride	11.5		1.0		mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Conductivity	181.9				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	12.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.63				NTU	1		Field Sampling	Total/NA
Field EH/ORP	163.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.58				mg/L	1		Field Sampling	Total/NA
Static Water Level	2.39				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-1A

Lab Sample ID: 480-189539-1

Date Collected: 09/14/21 08:45

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 15:42	1
Calcium	47.8		0.50		mg/L		09/16/21 10:56	09/17/21 15:42	1
Iron	0.53		0.050		mg/L		09/16/21 10:56	09/17/21 15:42	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 15:42	1
Magnesium	10.2		0.20		mg/L		09/16/21 10:56	09/17/21 15:42	1
Manganese	0.12		0.0030		mg/L		09/16/21 10:56	09/17/21 15:42	1
Potassium	1.2		0.50		mg/L		09/16/21 10:56	09/17/21 15:42	1
Sodium	13.1		1.0		mg/L		09/16/21 10:56	09/17/21 15:42	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	162		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 21:54	1
Alkalinity, Total	125	F1	20.0		mg/L			09/20/21 23:40	2
Ammonia	1.0		0.020		mg/L			09/15/21 11:45	1
Total Kjeldahl Nitrogen	0.37		0.20		mg/L		09/19/21 12:50	09/20/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 18:59	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/16/21 08:18	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:13	1
Sulfate	19.7		5.0		mg/L			09/22/21 01:30	1
Total Dissolved Solids	203		10.0		mg/L			09/16/21 15:47	1
Chloride	35.8		1.0		mg/L			09/21/21 22:12	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/16/21 22:57	1
TOC Result 1	ND		1.0		mg/L			09/16/21 22:57	1
TOC Result 2	ND		1.0		mg/L			09/16/21 22:57	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.1				SU			09/14/21 08:45	1
Field Conductivity	321.7				umhos/cm			09/14/21 08:45	1
Field Temperature	17.1				Degrees C			09/14/21 08:45	1
Field Turbidity	9.12				NTU			09/14/21 08:45	1
Field EH/ORP	56.6				millivolts			09/14/21 08:45	1
Oxygen, Dissolved	2.33				mg/L			09/14/21 08:45	1
Static Water Level	4.53				ft			09/14/21 08:45	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-2A

Lab Sample ID: 480-189539-2

Date Collected: 09/14/21 09:10

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 15:46	1
Calcium	71.4		0.50		mg/L		09/16/21 10:56	09/17/21 15:46	1
Iron	12.0		0.050		mg/L		09/16/21 10:56	09/17/21 15:46	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 15:46	1
Magnesium	14.9		0.20		mg/L		09/16/21 10:56	09/17/21 15:46	1
Manganese	10		0.0030		mg/L		09/16/21 10:56	09/17/21 15:46	1
Potassium	11.2		0.50		mg/L		09/16/21 10:56	09/17/21 15:46	1
Sodium	14.0		1.0		mg/L		09/16/21 10:56	09/17/21 15:46	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/22/21 09:19	09/22/21 17:21	1
Calcium	86.1		0.50		mg/L		09/22/21 09:19	09/22/21 17:21	1
Iron	ND		0.050		mg/L		09/22/21 09:19	09/22/21 17:21	1
Lead	ND		0.010		mg/L		09/22/21 09:19	09/22/21 17:21	1
Magnesium	16.8		0.20		mg/L		09/22/21 09:19	09/22/21 17:21	1
Manganese	10.8		0.0030		mg/L		09/22/21 09:19	09/22/21 17:21	1
Potassium	10.7		0.50		mg/L		09/22/21 09:19	09/23/21 04:02	1
Sodium	15.5		1.0		mg/L		09/22/21 09:19	09/22/21 17:21	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	240		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			09/16/21 22:13	2
Alkalinity, Total	303		50.0		mg/L			09/21/21 00:51	5
Ammonia	7.6		0.10		mg/L			09/20/21 10:07	5
Total Kjeldahl Nitrogen	7.0		0.40		mg/L		09/19/21 12:50	09/20/21 08:44	2
Nitrate as N	0.081		0.050		mg/L			09/15/21 20:53	1
Chemical Oxygen Demand	13.5		10.0		mg/L			09/16/21 08:21	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:17	1
Sulfate	ND		5.0		mg/L			09/22/21 01:30	1
Total Dissolved Solids	459		10.0		mg/L			09/16/21 15:47	1
Chloride	16.5		1.0		mg/L			09/21/21 22:14	1
Biochemical Oxygen Demand	2.4 b		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	7.1		1.0		mg/L			09/16/21 23:12	1
TOC Result 1	6.9		1.0		mg/L			09/16/21 23:12	1
TOC Result 2	7.3		1.0		mg/L			09/16/21 23:12	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.16				SU			09/14/21 09:10	1
Field Conductivity	535				umhos/cm			09/14/21 09:10	1
Field Temperature	16.2				Degrees C			09/14/21 09:10	1
Field Turbidity	65.6				NTU			09/14/21 09:10	1
Field EH/ORP	22.9				millivolts			09/14/21 09:10	1
Oxygen, Dissolved	4.32				mg/L			09/14/21 09:10	1
Static Water Level	5.33				ft			09/14/21 09:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-2B

Date Collected: 09/14/21 09:30

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-3

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 15:50	1
Calcium	179		0.50		mg/L		09/16/21 10:56	09/17/21 15:50	1
Iron	0.26		0.050		mg/L		09/16/21 10:56	09/17/21 15:50	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 15:50	1
Magnesium	36.2		0.20		mg/L		09/16/21 10:56	09/17/21 15:50	1
Manganese	4.9		0.0030		mg/L		09/16/21 10:56	09/17/21 15:50	1
Potassium	2.1		0.50		mg/L		09/16/21 10:56	09/17/21 15:50	1
Sodium	45.2		1.0		mg/L		09/16/21 10:56	09/17/21 15:50	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	595		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.87		0.40		mg/L			09/16/21 22:31	2
Alkalinity, Total	605		80.0		mg/L			09/21/21 00:52	8
Ammonia	0.45		0.020		mg/L			09/15/21 11:57	1
Total Kjeldahl Nitrogen	1.3		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:01	1
Chemical Oxygen Demand	11.3		10.0		mg/L			09/16/21 11:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:21	1
Sulfate	ND		5.0		mg/L			09/22/21 01:30	1
Total Dissolved Solids	871		10.0		mg/L			09/16/21 15:47	1
Chloride	88.0		2.0		mg/L			09/21/21 22:28	2
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	5.2		1.0		mg/L			09/17/21 00:28	1
TOC Result 1	5.1		1.0		mg/L			09/17/21 00:28	1
TOC Result 2	5.4		1.0		mg/L			09/17/21 00:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.14				SU			09/14/21 09:30	1
Field Conductivity	1015				umhos/cm			09/14/21 09:30	1
Field Temperature	14.6				Degrees C			09/14/21 09:30	1
Field Turbidity	1.30				NTU			09/14/21 09:30	1
Field EH/ORP	72.3				millivolts			09/14/21 09:30	1
Oxygen, Dissolved	3.85				mg/L			09/14/21 09:30	1
Static Water Level	8.08				ft			09/14/21 09:30	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-3A

Date Collected: 09/14/21 10:15

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-4

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:21	1
Calcium	19.0		0.50		mg/L		09/16/21 10:56	09/17/21 16:21	1
Iron	0.32		0.050		mg/L		09/16/21 10:56	09/16/21 23:35	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:21	1
Magnesium	2.4		0.20		mg/L		09/16/21 10:56	09/17/21 16:21	1
Manganese	0.82		0.0030		mg/L		09/16/21 10:56	09/17/21 16:21	1
Potassium	1.2		0.50		mg/L		09/16/21 10:56	09/17/21 16:21	1
Sodium	1.0		1.0		mg/L		09/16/21 10:56	09/17/21 16:21	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	57.2		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/17/21 00:22	1
Alkalinity, Total	58.4		10.0		mg/L			09/21/21 00:52	1
Ammonia	ND		0.020		mg/L			09/15/21 11:47	1
Total Kjeldahl Nitrogen	0.90		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:07	1
Chemical Oxygen Demand	33.4		10.0		mg/L			09/16/21 11:06	1
Phenolics, Total Recoverable	ND	F1	0.010		mg/L			09/16/21 09:46	1
Sulfate	ND		5.0		mg/L			09/22/21 01:31	1
Total Dissolved Solids	164		10.0		mg/L			09/17/21 12:13	1
Chloride	ND		1.0		mg/L			09/21/21 22:14	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	12.4		1.0		mg/L			09/17/21 01:15	1
TOC Result 1	12.1		1.0		mg/L			09/17/21 01:15	1
TOC Result 2	12.7		1.0		mg/L			09/17/21 01:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.13				SU			09/14/21 10:15	1
Field Conductivity	132.4				umhos/cm			09/14/21 10:15	1
Field Temperature	13.9				Degrees C			09/14/21 10:15	1
Field Turbidity	4.96				NTU			09/14/21 10:15	1
Field EH/ORP	159.6				millivolts			09/14/21 10:15	1
Oxygen, Dissolved	3.10				mg/L			09/14/21 10:15	1
Static Water Level	9.09				ft			09/14/21 10:15	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-3B

Lab Sample ID: 480-189539-5

Date Collected: 09/14/21 10:35

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:25	1
Calcium	44.7		0.50		mg/L		09/16/21 10:56	09/17/21 16:25	1
Iron	ND		0.050		mg/L		09/16/21 10:56	09/16/21 23:39	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:25	1
Magnesium	12.4		0.20		mg/L		09/16/21 10:56	09/17/21 16:25	1
Manganese	0.045		0.0030		mg/L		09/16/21 10:56	09/17/21 16:25	1
Potassium	0.99		0.50		mg/L		09/16/21 10:56	09/17/21 16:25	1
Sodium	8.8		1.0		mg/L		09/16/21 10:56	09/17/21 16:25	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	163		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	0.21		0.20		mg/L			09/17/21 00:41	1
Alkalinity, Total	146		20.0		mg/L			09/21/21 00:52	2
Ammonia	ND		0.020		mg/L			09/15/21 11:48	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:09	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/16/21 11:43	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:53	1
Sulfate	11.9	F1	5.0		mg/L			09/22/21 01:31	1
Total Dissolved Solids	214		10.0		mg/L			09/17/21 12:13	1
Chloride	21.6	F1	1.0		mg/L			09/21/21 22:15	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	1.0		1.0		mg/L			09/17/21 01:31	1
TOC Result 1	1.0		1.0		mg/L			09/17/21 01:31	1
TOC Result 2	1.0		1.0		mg/L			09/17/21 01:31	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.37				SU			09/14/21 10:35	1
Field Conductivity	270.6				umhos/cm			09/14/21 10:35	1
Field Temperature	12.3				Degrees C			09/14/21 10:35	1
Field Turbidity	1.76				NTU			09/14/21 10:35	1
Field EH/ORP	132.6				millivolts			09/14/21 10:35	1
Oxygen, Dissolved	4.25				mg/L			09/14/21 10:35	1
Static Water Level	15.41				ft			09/14/21 10:35	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-4A

Lab Sample ID: 480-189539-6

Date Collected: 09/14/21 11:00

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:29	1
Calcium	123		0.50		mg/L		09/16/21 10:56	09/17/21 16:29	1
Iron	0.12		0.050		mg/L		09/16/21 10:56	09/16/21 23:43	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:29	1
Magnesium	25.6		0.20		mg/L		09/16/21 10:56	09/17/21 16:29	1
Manganese	0.63		0.0030		mg/L		09/16/21 10:56	09/17/21 16:29	1
Potassium	1.5		0.50		mg/L		09/16/21 10:56	09/17/21 16:29	1
Sodium	17.4		1.0		mg/L		09/16/21 10:56	09/17/21 16:29	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	412		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			09/17/21 00:59	2
Alkalinity, Total	438		60.0		mg/L			09/20/21 23:42	6
Ammonia	ND		0.020		mg/L			09/15/21 11:51	1
Total Kjeldahl Nitrogen	0.30		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:10	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/16/21 08:29	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:57	1
Sulfate	ND		5.0		mg/L			09/22/21 01:31	1
Total Dissolved Solids	443		10.0		mg/L			09/17/21 12:13	1
Chloride	10.1		1.0		mg/L			09/21/21 22:16	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/16/21 09:12	1
Total Organic Carbon - Duplicates	2.4		1.0		mg/L			09/17/21 01:46	1
TOC Result 1	2.3		1.0		mg/L			09/17/21 01:46	1
TOC Result 2	2.5		1.0		mg/L			09/17/21 01:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.29				SU			09/14/21 11:00	1
Field Conductivity	611				umhos/cm			09/14/21 11:00	1
Field Temperature	13.5				Degrees C			09/14/21 11:00	1
Field Turbidity	3.50				NTU			09/14/21 11:00	1
Field EH/ORP	137.7				millivolts			09/14/21 11:00	1
Oxygen, Dissolved	3.15				mg/L			09/14/21 11:00	1
Static Water Level	8.47				ft			09/14/21 11:00	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-5A

Lab Sample ID: 480-189539-7

Date Collected: 09/14/21 11:20

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:33	1
Calcium	39.2		0.50		mg/L		09/16/21 10:56	09/17/21 16:33	1
Iron	0.096		0.050		mg/L		09/16/21 10:56	09/16/21 23:58	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:33	1
Magnesium	10.7		0.20		mg/L		09/16/21 10:56	09/17/21 16:33	1
Manganese	0.083		0.0030		mg/L		09/16/21 10:56	09/17/21 16:33	1
Potassium	0.83		0.50		mg/L		09/16/21 10:56	09/17/21 16:33	1
Sodium	9.4		1.0		mg/L		09/16/21 10:56	09/17/21 16:33	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	142		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/17/21 01:18	1
Alkalinity, Total	146	F1	20.0		mg/L			09/20/21 23:42	2
Ammonia	ND		0.020		mg/L			09/15/21 11:52	1
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:11	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/16/21 11:46	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:01	1
Sulfate	17.6		5.0		mg/L			09/22/21 01:31	1
Total Dissolved Solids	198		10.0		mg/L			09/17/21 12:13	1
Chloride	4.7		1.0		mg/L			09/21/21 23:24	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/16/21 09:12	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/17/21 02:01	1
TOC Result 1	ND		1.0		mg/L			09/17/21 02:01	1
TOC Result 2	ND		1.0		mg/L			09/17/21 02:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.07				SU			09/14/21 11:20	1
Field Conductivity	262.6				umhos/cm			09/14/21 11:20	1
Field Temperature	16.5				Degrees C			09/14/21 11:20	1
Field Turbidity	3.22				NTU			09/14/21 11:20	1
Field EH/ORP	124.1				millivolts			09/14/21 11:20	1
Oxygen, Dissolved	3.72				mg/L			09/14/21 11:20	1
Static Water Level	8.97				ft			09/14/21 11:20	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-6A

Lab Sample ID: 480-189539-8

Date Collected: 09/14/21 11:45

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:37	1
Calcium	93.9		0.50		mg/L		09/16/21 10:56	09/17/21 16:37	1
Iron	15.6	^+	0.050		mg/L		09/16/21 10:56	09/17/21 16:37	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:37	1
Magnesium	11.7		0.20		mg/L		09/16/21 10:56	09/17/21 16:37	1
Manganese	1.1		0.0030		mg/L		09/16/21 10:56	09/17/21 16:37	1
Potassium	5.5		0.50		mg/L		09/16/21 10:56	09/17/21 16:37	1
Sodium	4.8		1.0		mg/L		09/16/21 10:56	09/17/21 16:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/22/21 09:19	09/22/21 17:24	1
Calcium	89.7		0.50		mg/L		09/22/21 09:19	09/22/21 17:24	1
Iron	ND		0.050		mg/L		09/22/21 09:19	09/22/21 17:24	1
Lead	ND		0.010		mg/L		09/22/21 09:19	09/22/21 17:24	1
Magnesium	9.6		0.20		mg/L		09/22/21 09:19	09/22/21 17:24	1
Manganese	0.14		0.0030		mg/L		09/22/21 09:19	09/22/21 17:24	1
Potassium	2.2		0.50		mg/L		09/22/21 09:19	09/23/21 04:17	1
Sodium	5.2		1.0		mg/L		09/22/21 09:19	09/22/21 17:24	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	283		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/17/21 01:36	1
Alkalinity, Total	289		30.0		mg/L			09/20/21 23:44	3
Ammonia	ND		0.020		mg/L			09/15/21 11:53	1
Total Kjeldahl Nitrogen	1.5		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	0.14		0.050		mg/L			09/15/21 20:54	1
Chemical Oxygen Demand	21.8		10.0		mg/L			09/21/21 20:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:04	1
Sulfate	ND		5.0		mg/L			09/22/21 00:58	1
Total Dissolved Solids	325		10.0		mg/L			09/17/21 12:13	1
Chloride	1.8		1.0		mg/L			09/21/21 23:26	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/16/21 09:12	1
Total Organic Carbon - Duplicates	73.1		1.0		mg/L			09/17/21 02:17	1
TOC Result 1	72.7		1.0		mg/L			09/17/21 02:17	1
TOC Result 2	73.5		1.0		mg/L			09/17/21 02:17	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.46				SU			09/14/21 11:45	1
Field Conductivity	402.4				umhos/cm			09/14/21 11:45	1
Field Temperature	14.3				Degrees C			09/14/21 11:45	1
Field Turbidity	199				NTU			09/14/21 11:45	1
Field EH/ORP	153.2				millivolts			09/14/21 11:45	1
Oxygen, Dissolved	2.97				mg/L			09/14/21 11:45	1
Static Water Level	11.72				ft			09/14/21 11:45	1

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Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-6B

Lab Sample ID: 480-189539-9

Date Collected: 09/14/21 12:15

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:41	1
Calcium	43.2		0.50		mg/L		09/16/21 10:56	09/17/21 16:41	1
Iron	0.27		0.050		mg/L		09/16/21 10:56	09/17/21 00:05	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:41	1
Magnesium	10.6		0.20		mg/L		09/16/21 10:56	09/17/21 16:41	1
Manganese	0.067		0.0030		mg/L		09/16/21 10:56	09/17/21 16:41	1
Potassium	1.0		0.50		mg/L		09/16/21 10:56	09/17/21 16:41	1
Sodium	19.9		1.0		mg/L		09/16/21 10:56	09/17/21 16:41	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	151		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/17/21 03:27	1
Alkalinity, Total	137		20.0		mg/L			09/20/21 23:44	2
Ammonia	ND		0.020		mg/L			09/15/21 11:53	1
Total Kjeldahl Nitrogen	0.20		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:14	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:08	1
Sulfate	17.3		5.0		mg/L			09/22/21 00:58	1
Total Dissolved Solids	203		10.0		mg/L			09/17/21 12:13	1
Chloride	34.8		1.0		mg/L			09/21/21 23:47	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/16/21 09:12	1
Total Organic Carbon - Duplicates	1.2		1.0		mg/L			09/17/21 03:03	1
TOC Result 1	1.2		1.0		mg/L			09/17/21 03:03	1
TOC Result 2	1.2		1.0		mg/L			09/17/21 03:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.38				SU			09/14/21 12:15	1
Field Conductivity	313				umhos/cm			09/14/21 12:15	1
Field Temperature	13.3				Degrees C			09/14/21 12:15	1
Field Turbidity	5.72				NTU			09/14/21 12:15	1
Field EH/ORP	146.4				millivolts			09/14/21 12:15	1
Oxygen, Dissolved	1.98				mg/L			09/14/21 12:15	1
Static Water Level	11.88				ft			09/14/21 12:15	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-7A

Lab Sample ID: 480-189539-10

Date Collected: 09/14/21 08:25

Matrix: Water

Date Received: 09/15/21 08:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 16:56	1
Calcium	72.8		0.50		mg/L		09/16/21 10:56	09/17/21 16:56	1
Iron	5.0	^+	0.050		mg/L		09/16/21 10:56	09/17/21 16:56	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 16:56	1
Magnesium	13.9		0.20		mg/L		09/16/21 10:56	09/17/21 16:56	1
Manganese	3.4		0.0030		mg/L		09/16/21 10:56	09/17/21 16:56	1
Potassium	2.4		0.50		mg/L		09/16/21 10:56	09/17/21 16:56	1
Sodium	35.5		1.0		mg/L		09/16/21 10:56	09/17/21 16:56	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	239		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.40		mg/L			09/17/21 03:45	2
Alkalinity, Total	291		50.0		mg/L			09/20/21 23:44	5
Ammonia	0.12	F1	0.020		mg/L			09/15/21 11:54	1
Total Kjeldahl Nitrogen	1.2		0.20		mg/L		09/16/21 11:07	09/17/21 08:05	1
Nitrate as N	ND		0.050		mg/L			09/15/21 19:15	1
Chemical Oxygen Demand	25.8		10.0		mg/L			09/22/21 19:06	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:12	1
Sulfate	ND		5.0		mg/L			09/22/21 00:58	1
Total Dissolved Solids	339		10.0		mg/L			09/17/21 12:13	1
Chloride	13.9		1.0		mg/L			09/21/21 23:26	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	9.4		1.0		mg/L			09/17/21 03:18	1
TOC Result 1	9.1		1.0		mg/L			09/17/21 03:18	1
TOC Result 2	9.6		1.0		mg/L			09/17/21 03:18	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.02				SU			09/14/21 08:25	1
Field Conductivity	500				umhos/cm			09/14/21 08:25	1
Field Temperature	15.4				Degrees C			09/14/21 08:25	1
Field Turbidity	3.9				NTU			09/14/21 08:25	1
Field EH/ORP	12.3				millivolts			09/14/21 08:25	1
Oxygen, Dissolved	2.32				mg/L			09/14/21 08:25	1
Static Water Level	4.43				ft			09/14/21 08:25	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: CD-1

Lab Sample ID: 480-189575-1

Date Collected: 09/13/21 11:45

Matrix: Water

Date Received: 09/15/21 10:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 17:12	1
Calcium	109		0.50		mg/L		09/16/21 10:56	09/17/21 17:12	1
Iron	66.6	^+	0.050		mg/L		09/16/21 10:56	09/17/21 17:12	1
Lead	0.040		0.020		mg/L		09/16/21 10:56	09/17/21 17:16	2
Magnesium	24.8		0.20		mg/L		09/16/21 10:56	09/17/21 17:12	1
Manganese	12.5		0.0030		mg/L		09/16/21 10:56	09/17/21 17:12	1
Potassium	9.2		0.50		mg/L		09/16/21 10:56	09/17/21 17:12	1
Sodium	4.8		1.0		mg/L		09/16/21 10:56	09/17/21 17:12	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/22/21 09:19	09/22/21 17:28	1
Calcium	39.3		0.50		mg/L		09/22/21 09:19	09/22/21 17:28	1
Iron	ND		0.050		mg/L		09/22/21 09:19	09/22/21 17:28	1
Lead	ND		0.010		mg/L		09/22/21 09:19	09/22/21 17:28	1
Magnesium	8.7		0.20		mg/L		09/22/21 09:19	09/22/21 17:28	1
Manganese	ND		0.0030		mg/L		09/22/21 09:19	09/22/21 17:28	1
Potassium	1.2		0.50		mg/L		09/22/21 09:19	09/23/21 04:21	1
Sodium	4.1		1.0		mg/L		09/22/21 09:19	09/22/21 17:28	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	373		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 17:19	1
Alkalinity, Total	128	F1	20.0		mg/L			09/20/21 23:48	2
Ammonia	0.048		0.020		mg/L			09/16/21 08:07	1
Total Kjeldahl Nitrogen	1.5		0.20		mg/L		09/16/21 11:07	09/17/21 08:13	1
Nitrate as N	ND	H	0.050		mg/L			09/15/21 21:08	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:41	1
Sulfate	17.6		5.0		mg/L			09/22/21 00:59	1
Total Dissolved Solids	189		10.0		mg/L			09/16/21 11:33	1
Chloride	ND		1.0		mg/L			09/21/21 23:27	1
Biochemical Oxygen Demand	ND	H	2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/17/21 04:19	1
TOC Result 1	ND		1.0		mg/L			09/17/21 04:19	1
TOC Result 2	ND		1.0		mg/L			09/17/21 04:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.55				SU			09/13/21 11:45	1
Field Conductivity	212.0				umhos/cm			09/13/21 11:45	1
Field Temperature	13.3				Degrees C			09/13/21 11:45	1
Field Turbidity	343				NTU			09/13/21 11:45	1
Field EH/ORP	166.2				millivolts			09/13/21 11:45	1
Oxygen, Dissolved	3.29				mg/L			09/13/21 11:45	1
Static Water Level	8.22				ft			09/13/21 11:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: CD-1RA

Lab Sample ID: 480-189575-2

Date Collected: 09/13/21 12:30

Matrix: Water

Date Received: 09/15/21 10:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 17:20	1
Calcium	45.6		0.50		mg/L		09/16/21 10:56	09/17/21 17:20	1
Iron	2.2	^+	0.050		mg/L		09/16/21 10:56	09/17/21 17:20	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 17:20	1
Magnesium	10.2		0.20		mg/L		09/16/21 10:56	09/17/21 17:20	1
Manganese	0.34		0.0030		mg/L		09/16/21 10:56	09/17/21 17:20	1
Potassium	1.1		0.50		mg/L		09/16/21 10:56	09/17/21 17:20	1
Sodium	5.8		1.0		mg/L		09/16/21 10:56	09/17/21 17:20	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	156		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 17:38	1
Alkalinity, Total	152		20.0		mg/L			09/20/21 23:49	2
Ammonia	0.029		0.020		mg/L			09/16/21 08:05	1
Total Kjeldahl Nitrogen	0.31		0.20		mg/L		09/16/21 11:07	09/17/21 08:13	1
Nitrate as N	ND	H	0.050		mg/L			09/15/21 19:29	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:45	1
Sulfate	19.4		5.0		mg/L			09/22/21 01:00	1
Total Dissolved Solids	198		10.0		mg/L			09/16/21 11:33	1
Chloride	1.2		1.0		mg/L			09/21/21 23:27	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/17/21 04:34	1
TOC Result 1	ND		1.0		mg/L			09/17/21 04:34	1
TOC Result 2	ND		1.0		mg/L			09/17/21 04:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.42				SU			09/13/21 12:30	1
Field Conductivity	228.1				umhos/cm			09/13/21 12:30	1
Field Temperature	12.2				Degrees C			09/13/21 12:30	1
Field Turbidity	14.5				NTU			09/13/21 12:30	1
Field EH/ORP	162.4				millivolts			09/13/21 12:30	1
Oxygen, Dissolved	1.90				mg/L			09/13/21 12:30	1
Static Water Level	6.00				ft			09/13/21 12:30	1

Client Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-1B

Lab Sample ID: 480-189575-3

Date Collected: 09/13/21 13:25

Matrix: Water

Date Received: 09/15/21 10:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 17:24	1
Calcium	31.0		0.50		mg/L		09/16/21 10:56	09/17/21 17:24	1
Iron	0.64		0.050		mg/L		09/16/21 10:56	09/17/21 00:42	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 17:24	1
Magnesium	6.9		0.20		mg/L		09/16/21 10:56	09/17/21 17:24	1
Manganese	1.3		0.0030		mg/L		09/16/21 10:56	09/17/21 17:24	1
Potassium	0.52		0.50		mg/L		09/16/21 10:56	09/17/21 17:24	1
Sodium	8.4		1.0		mg/L		09/16/21 10:56	09/17/21 17:24	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	106		0.50		mg/L			09/23/21 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 17:56	1
Alkalinity, Total	102		20.0		mg/L			09/20/21 23:50	2
Ammonia	ND		0.020		mg/L			09/16/21 08:08	1
Total Kjeldahl Nitrogen	0.22		0.20		mg/L		09/16/21 11:07	09/17/21 08:13	1
Nitrate as N	ND	H	0.050		mg/L			09/15/21 19:34	1
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 10:48	1
Sulfate	10.3		5.0		mg/L			09/22/21 01:00	1
Total Dissolved Solids	135		10.0		mg/L			09/16/21 11:33	1
Chloride	11.5		1.0		mg/L			09/21/21 23:27	1
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/17/21 04:50	1
TOC Result 1	ND		1.0		mg/L			09/17/21 04:50	1
TOC Result 2	ND		1.0		mg/L			09/17/21 04:50	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.31				SU			09/13/21 13:25	1
Field Conductivity	181.9				umhos/cm			09/13/21 13:25	1
Field Temperature	12.4				Degrees C			09/13/21 13:25	1
Field Turbidity	4.63				NTU			09/13/21 13:25	1
Field EH/ORP	163.2				millivolts			09/13/21 13:25	1
Oxygen, Dissolved	2.58				mg/L			09/13/21 13:25	1
Static Water Level	2.39				ft			09/13/21 13:25	1

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-596518/1-A

Matrix: Water

Analysis Batch: 596950

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 596518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/16/21 10:56	09/17/21 15:27	1
Calcium	ND		0.50		mg/L		09/16/21 10:56	09/17/21 15:27	1
Iron	ND		0.050		mg/L		09/16/21 10:56	09/17/21 15:27	1
Lead	ND		0.010		mg/L		09/16/21 10:56	09/17/21 15:27	1
Magnesium	ND		0.20		mg/L		09/16/21 10:56	09/17/21 15:27	1
Manganese	ND		0.0030		mg/L		09/16/21 10:56	09/17/21 15:27	1
Potassium	ND		0.50		mg/L		09/16/21 10:56	09/17/21 15:27	1
Sodium	ND		1.0		mg/L		09/16/21 10:56	09/17/21 15:27	1

Lab Sample ID: LCS 480-596518/2-A

Matrix: Water

Analysis Batch: 596950

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 596518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.200	0.197		mg/L		99	80 - 120
Calcium	10.0	10.03		mg/L		100	80 - 120
Iron	10.0	10.56		mg/L		106	80 - 120
Lead	0.200	0.202		mg/L		101	80 - 120
Magnesium	10.0	9.94		mg/L		99	80 - 120
Manganese	0.200	0.207		mg/L		103	80 - 120
Potassium	10.0	10.29		mg/L		103	80 - 120
Sodium	10.0	10.81		mg/L		108	80 - 120

Lab Sample ID: 480-189539-3 MS

Matrix: Water

Analysis Batch: 596950

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 596518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		0.200	0.197		mg/L		98	75 - 125
Calcium	179		10.0	184.8	4	mg/L		60	75 - 125
Iron	0.26		10.0	10.54	^+	mg/L		103	75 - 125
Lead	ND		0.200	0.205		mg/L		103	75 - 125
Magnesium	36.2		10.0	45.23		mg/L		90	75 - 125
Manganese	4.9		0.200	4.98	4	mg/L		54	75 - 125
Potassium	2.1		10.0	12.78		mg/L		106	75 - 125
Sodium	45.2		10.0	54.79	4	mg/L		96	75 - 125

Lab Sample ID: 480-189539-3 MSD

Matrix: Water

Analysis Batch: 596950

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 596518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	ND		0.200	0.196		mg/L		98	75 - 125	0	20
Calcium	179		10.0	186.9	4	mg/L		81	75 - 125	1	20
Iron	0.26		10.0	10.52	^+	mg/L		103	75 - 125	0	20
Lead	ND		0.200	0.206		mg/L		103	75 - 125	0	20
Magnesium	36.2		10.0	45.60		mg/L		94	75 - 125	1	20
Manganese	4.9		0.200	4.99	4	mg/L		64	75 - 125	0	20
Potassium	2.1		10.0	12.85		mg/L		107	75 - 125	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

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

Lab Sample ID: 480-189539-3 MSD

Matrix: Water

Analysis Batch: 596950

Client Sample ID: MW-2B

Prep Type: Total/NA

Prep Batch: 596518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	45.2		10.0	55.57	4	mg/L		104	75 - 125	1	20

Lab Sample ID: MB 480-596670/1-B

Matrix: Water

Analysis Batch: 597555

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 597284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020		mg/L		09/22/21 09:19	09/22/21 16:58	1
Calcium	ND		0.50		mg/L		09/22/21 09:19	09/22/21 16:58	1
Iron	ND		0.050		mg/L		09/22/21 09:19	09/22/21 16:58	1
Lead	ND		0.010		mg/L		09/22/21 09:19	09/22/21 16:58	1
Magnesium	ND		0.20		mg/L		09/22/21 09:19	09/22/21 16:58	1
Manganese	ND		0.0030		mg/L		09/22/21 09:19	09/22/21 16:58	1
Sodium	ND		1.0		mg/L		09/22/21 09:19	09/22/21 16:58	1

Lab Sample ID: MB 480-596670/1-B

Matrix: Water

Analysis Batch: 597549

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 597284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50		mg/L		09/22/21 09:19	09/23/21 03:50	1

Lab Sample ID: LCS 480-596670/2-B

Matrix: Water

Analysis Batch: 597555

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 597284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.200	0.203		mg/L		101	80 - 120
Calcium	10.0	9.97		mg/L		100	80 - 120
Iron	10.0	10.20		mg/L		102	80 - 120
Lead	0.200	0.196		mg/L		98	80 - 120
Magnesium	10.0	10.08		mg/L		101	80 - 120
Manganese	0.200	0.207		mg/L		104	80 - 120
Sodium	10.0	10.06		mg/L		100	80 - 120

Lab Sample ID: LCS 480-596670/2-B

Matrix: Water

Analysis Batch: 597549

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 597284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.52		mg/L		95	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-596665/28

Matrix: Water

Analysis Batch: 596665

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/17/21 00:03	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-596665/4
Matrix: Water
Analysis Batch: 596665

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 16:39	1

Lab Sample ID: LCS 480-596665/27
Matrix: Water
Analysis Batch: 596665

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.05		mg/L		101	90 - 110

Lab Sample ID: LCS 480-596665/3
Matrix: Water
Analysis Batch: 596665

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	5.07		mg/L		101	90 - 110

Lab Sample ID: 480-189539-3 MS
Matrix: Water
Analysis Batch: 596665

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	0.87		10.0	10.39		mg/L		95	80 - 120

Lab Sample ID: MB 480-596681/4
Matrix: Water
Analysis Batch: 596681

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		0.20		mg/L			09/16/21 17:00	1

Lab Sample ID: LCS 480-596681/3
Matrix: Water
Analysis Batch: 596681

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromide	5.00	4.85		mg/L		97	90 - 110

Method: 310.2 - Alkalinity

Lab Sample ID: MB 480-597123/138
Matrix: Water
Analysis Batch: 597123

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/21/21 00:10	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 310.2 - Alkalinity (Continued)

Lab Sample ID: MB 480-597123/147

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/21/21 00:14	1

Lab Sample ID: MB 480-597123/159

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/21/21 00:53	1

Lab Sample ID: MB 480-597123/53

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/20/21 23:37	1

Lab Sample ID: MB 480-597123/61

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/20/21 23:39	1

Lab Sample ID: MB 480-597123/73

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/20/21 23:43	1

Lab Sample ID: MB 480-597123/85

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		10.0		mg/L			09/20/21 23:48	1

Lab Sample ID: LCS 480-597123/146

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	49.10		mg/L		98	90 - 110

Lab Sample ID: LCS 480-597123/158

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	50.12		mg/L		100	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 310.2 - Alkalinity

Lab Sample ID: LCS 480-597123/60

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	53.32		mg/L		107	90 - 110

Lab Sample ID: LCS 480-597123/72

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	51.09		mg/L		102	90 - 110

Lab Sample ID: LCS 480-597123/84

Matrix: Water

Analysis Batch: 597123

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	50.0	52.86		mg/L		106	90 - 110

Lab Sample ID: 480-189539-1 MS

Matrix: Water

Analysis Batch: 597123

Client Sample ID: MW-1A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	125	F1	20.0	149.5	4	mg/L		123	60 - 140

Lab Sample ID: 480-189539-1 MSD

Matrix: Water

Analysis Batch: 597123

Client Sample ID: MW-1A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	125	F1	20.0	150.9	4	mg/L		130	60 - 140	1	20

Lab Sample ID: 480-189539-7 MS

Matrix: Water

Analysis Batch: 597123

Client Sample ID: MW-5A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	146	F1	20.0	166.3	4	mg/L		103	60 - 140

Lab Sample ID: 480-189539-7 MSD

Matrix: Water

Analysis Batch: 597123

Client Sample ID: MW-5A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	146	F1	20.0	166.0	4	mg/L		102	60 - 140	0	20

Lab Sample ID: 480-189575-1 MS

Matrix: Water

Analysis Batch: 597123

Client Sample ID: CD-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	128	F1	20.0	157.5	4	mg/L		149	60 - 140

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 310.2 - Alkalinity

Lab Sample ID: 480-189575-1 MSD

Matrix: Water

Analysis Batch: 597123

Client Sample ID: CD-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity, Total	128	F1	20.0	150.8	4	mg/L		116	60 - 140	4	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-596427/3

Matrix: Water

Analysis Batch: 596427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/15/21 11:41	1

Lab Sample ID: LCS 480-596427/4

Matrix: Water

Analysis Batch: 596427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 480-189539-10 MS

Matrix: Water

Analysis Batch: 596427

Client Sample ID: MW-7A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.12	F1	0.200	0.291	F1	mg/L		86	90 - 110

Lab Sample ID: 480-189539-10 DU

Matrix: Water

Analysis Batch: 596427

Client Sample ID: MW-7A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	0.12	F1	0.127		mg/L		6	20

Lab Sample ID: MB 480-596584/3

Matrix: Water

Analysis Batch: 596584

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/16/21 08:04	1

Lab Sample ID: LCS 480-596584/4

Matrix: Water

Analysis Batch: 596584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-189575-2 MS

Matrix: Water

Analysis Batch: 596584

Client Sample ID: CD-1RA

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.029		0.200	0.244		mg/L		108	90 - 110

Lab Sample ID: MB 480-597053/3

Matrix: Water

Analysis Batch: 597053

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/20/21 09:08	1

Lab Sample ID: MB 480-597053/51

Matrix: Water

Analysis Batch: 597053

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020		mg/L			09/20/21 09:49	1

Lab Sample ID: LCS 480-597053/4

Matrix: Water

Analysis Batch: 597053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: LCS 480-597053/52

Matrix: Water

Analysis Batch: 597053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 480-596616/1-A

Matrix: Water

Analysis Batch: 596803

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 596616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/16/21 11:07	09/17/21 06:44	1

Lab Sample ID: LCS 480-596616/2-A

Matrix: Water

Analysis Batch: 596803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 596616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.57		mg/L		103	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 480-189539-3 MS
Matrix: Water
Analysis Batch: 596803

Client Sample ID: MW-2B
Prep Type: Total/NA
Prep Batch: 596616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	1.3		1.00	2.24		mg/L		97	90 - 110

Lab Sample ID: 480-189539-4 DU
Matrix: Water
Analysis Batch: 596803

Client Sample ID: MW-3A
Prep Type: Total/NA
Prep Batch: 596616

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.90		1.01		mg/L		12	20

Lab Sample ID: MB 480-596991/1-A
Matrix: Water
Analysis Batch: 597027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		0.20		mg/L		09/19/21 12:50	09/20/21 07:19	1

Lab Sample ID: LCS 480-596991/2-A
Matrix: Water
Analysis Batch: 597027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	2.50	2.59		mg/L		103	90 - 110

Lab Sample ID: 480-189539-1 MS
Matrix: Water
Analysis Batch: 597027

Client Sample ID: MW-1A
Prep Type: Total/NA
Prep Batch: 596991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.37		1.00	1.29		mg/L		92	90 - 110

Lab Sample ID: 480-189539-2 DU
Matrix: Water
Analysis Batch: 597027

Client Sample ID: MW-2A
Prep Type: Total/NA
Prep Batch: 596991

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Kjeldahl Nitrogen	7.0		6.78		mg/L		4	20

Method: 410.4 - COD

Lab Sample ID: MB 480-596654/76
Matrix: Water
Analysis Batch: 596654

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/16/21 07:57	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-596654/77

Matrix: Water

Analysis Batch: 596654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.45		mg/L		102	90 - 110

Lab Sample ID: 480-189539-6 MS

Matrix: Water

Analysis Batch: 596654

Client Sample ID: MW-4A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	42.13		mg/L		84	75 - 125

Lab Sample ID: MB 480-597427/4

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1

Lab Sample ID: MB 480-597427/52

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1

Lab Sample ID: MB 480-597427/76

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/21/21 20:03	1

Lab Sample ID: LCS 480-597427/5

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	26.21		mg/L		105	90 - 110

Lab Sample ID: LCS 480-597427/53

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	24.82		mg/L		99	90 - 110

Lab Sample ID: LCS 480-597427/77

Matrix: Water

Analysis Batch: 597427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.34		mg/L		101	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 410.4 - COD

Lab Sample ID: 480-189575-3 MS

Matrix: Water

Analysis Batch: 597427

Client Sample ID: MW-1B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	40.98		mg/L		82	75 - 125

Lab Sample ID: 480-189575-3 MSD

Matrix: Water

Analysis Batch: 597427

Client Sample ID: MW-1B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	ND		50.0	41.64		mg/L		83	75 - 125	2	20

Lab Sample ID: MB 480-597638/28

Matrix: Water

Analysis Batch: 597638

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0		mg/L			09/22/21 19:06	1

Lab Sample ID: LCS 480-597638/29

Matrix: Water

Analysis Batch: 597638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	25.0	25.62		mg/L		102	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-596623/16

Matrix: Water

Analysis Batch: 596623

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 07:56	1

Lab Sample ID: MB 480-596623/44

Matrix: Water

Analysis Batch: 596623

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	ND		0.010		mg/L			09/16/21 09:40	1

Lab Sample ID: LCS 480-596623/17

Matrix: Water

Analysis Batch: 596623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0982		mg/L		98	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-596623/45

Matrix: Water

Analysis Batch: 596623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	0.100	0.0997		mg/L		100	90 - 110

Lab Sample ID: 480-189539-4 MS

Matrix: Water

Analysis Batch: 596623

Client Sample ID: MW-3A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenolics, Total Recoverable	ND	F1	0.100	0.0962		mg/L		96	90 - 110

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 480-597310/53

Matrix: Water

Analysis Batch: 597310

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0		mg/L			09/22/21 00:56	1

Lab Sample ID: LCS 480-597310/54

Matrix: Water

Analysis Batch: 597310

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	30.0	31.49		mg/L		105	90 - 110

Lab Sample ID: 480-189539-5 MS

Matrix: Water

Analysis Batch: 597310

Client Sample ID: MW-3B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	11.9	F1	20.0	39.96	F1	mg/L		140	60 - 128

Lab Sample ID: 480-189539-5 MSD

Matrix: Water

Analysis Batch: 597310

Client Sample ID: MW-3B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfate	11.9	F1	20.0	39.44	F1	mg/L		138	60 - 128	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-596625/1

Matrix: Water

Analysis Batch: 596625

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/16/21 11:33	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 480-596625/2

Matrix: Water

Analysis Batch: 596625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	510	491.0		mg/L		96	85 - 115

Lab Sample ID: MB 480-596704/1

Matrix: Water

Analysis Batch: 596704

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/16/21 15:47	1

Lab Sample ID: LCS 480-596704/2

Matrix: Water

Analysis Batch: 596704

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	510	475.0		mg/L		93	85 - 115

Lab Sample ID: MB 480-596839/1

Matrix: Water

Analysis Batch: 596839

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0		mg/L			09/17/21 12:13	1

Lab Sample ID: LCS 480-596839/2

Matrix: Water

Analysis Batch: 596839

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	510	485.0		mg/L		95	85 - 115

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 480-597309/35

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 22:05	1

Lab Sample ID: MB 480-597309/47

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 22:10	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MB 480-597309/57

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 22:14	1

Lab Sample ID: MB 480-597309/69

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 22:21	1

Lab Sample ID: MB 480-597309/81

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 22:35	1

Lab Sample ID: MB 480-597309/99

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.0		mg/L			09/21/21 23:25	1

Lab Sample ID: LCS 480-597309/46

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.18		mg/L		109	90 - 110

Lab Sample ID: LCS 480-597309/56

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.22		mg/L		109	90 - 110

Lab Sample ID: LCS 480-597309/68

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.12		mg/L		108	90 - 110

Lab Sample ID: LCS 480-597309/80

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.05		mg/L		108	90 - 110

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: LCS 480-597309/98

Matrix: Water

Analysis Batch: 597309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	27.07		mg/L		108	90 - 110

Lab Sample ID: 480-189539-5 MS

Matrix: Water

Analysis Batch: 597309

Client Sample ID: MW-3B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21.6	F1	20.0	40.16		mg/L		93	74 - 131

Lab Sample ID: 480-189539-5 MSD

Matrix: Water

Analysis Batch: 597309

Client Sample ID: MW-3B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	21.6	F1	20.0	40.49		mg/L		95	74 - 131	1	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-596525/1

Matrix: Water

Analysis Batch: 596525

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			09/15/21 12:28	1

Lab Sample ID: LCS 480-596525/2

Matrix: Water

Analysis Batch: 596525

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	201.1		mg/L		102	85 - 115

Lab Sample ID: USB 480-596705/1

Matrix: Water

Analysis Batch: 596705

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0		mg/L			09/16/21 09:12	1

Lab Sample ID: LCS 480-596705/2

Matrix: Water

Analysis Batch: 596705

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	175.4		mg/L		89	85 - 115

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: SM 5210B - BOD, 5-Day (Continued)

Lab Sample ID: 480-189539-6 DU
Matrix: Water
Analysis Batch: 596705

Client Sample ID: MW-4A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Biochemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: SM 5310C - TOC

Lab Sample ID: MB 480-596902/28
Matrix: Water
Analysis Batch: 596902

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/16/21 17:53	1
TOC Result 1	ND		1.0		mg/L			09/16/21 17:53	1
TOC Result 2	ND		1.0		mg/L			09/16/21 17:53	1

Lab Sample ID: MB 480-596902/52
Matrix: Water
Analysis Batch: 596902

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			09/16/21 23:58	1
TOC Result 1	ND		1.0		mg/L			09/16/21 23:58	1
TOC Result 2	ND		1.0		mg/L			09/16/21 23:58	1

Lab Sample ID: LCS 480-596902/29
Matrix: Water
Analysis Batch: 596902

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	59.62		mg/L		99	90 - 110
TOC Result 1	60.0	59.97		mg/L		100	90 - 110
TOC Result 2	60.0	59.26		mg/L		99	90 - 110

Lab Sample ID: LCS 480-596902/53
Matrix: Water
Analysis Batch: 596902

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	59.65		mg/L		99	90 - 110
TOC Result 1	60.0	59.68		mg/L		99	90 - 110
TOC Result 2	60.0	59.62		mg/L		99	90 - 110

Lab Sample ID: 480-189539-3 MS
Matrix: Water
Analysis Batch: 596902

Client Sample ID: MW-2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	5.2		22.7	28.55		mg/L		103	54 - 131
TOC Result 1	5.1		22.7	28.26		mg/L		102	54 - 131
TOC Result 2	5.4		22.7	28.85		mg/L		103	54 - 131

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QC Sample Results

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method: SM 5310C - TOC

Lab Sample ID: 480-189539-3 MSD

Matrix: Water

Analysis Batch: 596902

Client Sample ID: MW-2B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	5.2		22.7	28.73		mg/L		103	54 - 131	1	20
TOC Result 1	5.1		22.7	28.33		mg/L		102	54 - 131	0	20
TOC Result 2	5.4		22.7	29.14		mg/L		104	54 - 131	1	20

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Metals

Prep Batch: 596518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	3005A	
480-189539-2	MW-2A	Total/NA	Water	3005A	
480-189539-3	MW-2B	Total/NA	Water	3005A	
480-189539-4	MW-3A	Total/NA	Water	3005A	
480-189539-5	MW-3B	Total/NA	Water	3005A	
480-189539-6	MW-4A	Total/NA	Water	3005A	
480-189539-7	MW-5A	Total/NA	Water	3005A	
480-189539-8	MW-6A	Total/NA	Water	3005A	
480-189539-9	MW-6B	Total/NA	Water	3005A	
480-189539-10	MW-7A	Total/NA	Water	3005A	
480-189575-1	CD-1	Total/NA	Water	3005A	
480-189575-2	CD-1RA	Total/NA	Water	3005A	
480-189575-3	MW-1B	Total/NA	Water	3005A	
MB 480-596518/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-596518/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-189539-3 MS	MW-2B	Total/NA	Water	3005A	
480-189539-3 MSD	MW-2B	Total/NA	Water	3005A	

Filtration Batch: 596670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-2	MW-2A	Dissolved	Water	FILTRATION	
480-189539-8	MW-6A	Dissolved	Water	FILTRATION	
480-189575-1	CD-1	Dissolved	Water	FILTRATION	
MB 480-596670/1-B	Method Blank	Dissolved	Water	FILTRATION	
LCS 480-596670/2-B	Lab Control Sample	Dissolved	Water	FILTRATION	

Analysis Batch: 596802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-4	MW-3A	Total/NA	Water	6010C	596518
480-189539-5	MW-3B	Total/NA	Water	6010C	596518
480-189539-6	MW-4A	Total/NA	Water	6010C	596518
480-189539-7	MW-5A	Total/NA	Water	6010C	596518
480-189539-9	MW-6B	Total/NA	Water	6010C	596518
480-189575-3	MW-1B	Total/NA	Water	6010C	596518

Analysis Batch: 596950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	6010C	596518
480-189539-2	MW-2A	Total/NA	Water	6010C	596518
480-189539-3	MW-2B	Total/NA	Water	6010C	596518
480-189539-4	MW-3A	Total/NA	Water	6010C	596518
480-189539-5	MW-3B	Total/NA	Water	6010C	596518
480-189539-6	MW-4A	Total/NA	Water	6010C	596518
480-189539-7	MW-5A	Total/NA	Water	6010C	596518
480-189539-8	MW-6A	Total/NA	Water	6010C	596518
480-189539-9	MW-6B	Total/NA	Water	6010C	596518
480-189539-10	MW-7A	Total/NA	Water	6010C	596518
480-189575-1	CD-1	Total/NA	Water	6010C	596518
480-189575-1	CD-1	Total/NA	Water	6010C	596518
480-189575-2	CD-1RA	Total/NA	Water	6010C	596518
480-189575-3	MW-1B	Total/NA	Water	6010C	596518

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Metals (Continued)

Analysis Batch: 596950 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-596518/1-A	Method Blank	Total/NA	Water	6010C	596518
LCS 480-596518/2-A	Lab Control Sample	Total/NA	Water	6010C	596518
480-189539-3 MS	MW-2B	Total/NA	Water	6010C	596518
480-189539-3 MSD	MW-2B	Total/NA	Water	6010C	596518

Prep Batch: 597284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-2	MW-2A	Dissolved	Water	3005A	596670
480-189539-8	MW-6A	Dissolved	Water	3005A	596670
480-189575-1	CD-1	Dissolved	Water	3005A	596670
MB 480-596670/1-B	Method Blank	Dissolved	Water	3005A	596670
LCS 480-596670/2-B	Lab Control Sample	Dissolved	Water	3005A	596670

Analysis Batch: 597531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	SM 2340B	
480-189539-2	MW-2A	Total/NA	Water	SM 2340B	
480-189539-3	MW-2B	Total/NA	Water	SM 2340B	
480-189539-4	MW-3A	Total/NA	Water	SM 2340B	
480-189539-5	MW-3B	Total/NA	Water	SM 2340B	
480-189539-6	MW-4A	Total/NA	Water	SM 2340B	
480-189539-7	MW-5A	Total/NA	Water	SM 2340B	
480-189539-8	MW-6A	Total/NA	Water	SM 2340B	
480-189539-9	MW-6B	Total/NA	Water	SM 2340B	
480-189539-10	MW-7A	Total/NA	Water	SM 2340B	
480-189575-1	CD-1	Total/NA	Water	SM 2340B	
480-189575-2	CD-1RA	Total/NA	Water	SM 2340B	
480-189575-3	MW-1B	Total/NA	Water	SM 2340B	

Analysis Batch: 597549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-2	MW-2A	Dissolved	Water	6010C	597284
480-189539-8	MW-6A	Dissolved	Water	6010C	597284
480-189575-1	CD-1	Dissolved	Water	6010C	597284
MB 480-596670/1-B	Method Blank	Dissolved	Water	6010C	597284
LCS 480-596670/2-B	Lab Control Sample	Dissolved	Water	6010C	597284

Analysis Batch: 597555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-2	MW-2A	Dissolved	Water	6010C	597284
480-189539-8	MW-6A	Dissolved	Water	6010C	597284
480-189575-1	CD-1	Dissolved	Water	6010C	597284
MB 480-596670/1-B	Method Blank	Dissolved	Water	6010C	597284
LCS 480-596670/2-B	Lab Control Sample	Dissolved	Water	6010C	597284

General Chemistry

Analysis Batch: 596427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	350.1	
480-189539-3	MW-2B	Total/NA	Water	350.1	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry (Continued)

Analysis Batch: 596427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-4	MW-3A	Total/NA	Water	350.1	
480-189539-5	MW-3B	Total/NA	Water	350.1	
480-189539-6	MW-4A	Total/NA	Water	350.1	
480-189539-7	MW-5A	Total/NA	Water	350.1	
480-189539-8	MW-6A	Total/NA	Water	350.1	
480-189539-9	MW-6B	Total/NA	Water	350.1	
480-189539-10	MW-7A	Total/NA	Water	350.1	
MB 480-596427/3	Method Blank	Total/NA	Water	350.1	
LCS 480-596427/4	Lab Control Sample	Total/NA	Water	350.1	
480-189539-10 MS	MW-7A	Total/NA	Water	350.1	
480-189539-10 DU	MW-7A	Total/NA	Water	350.1	

Analysis Batch: 596525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	SM 5210B	
480-189539-2	MW-2A	Total/NA	Water	SM 5210B	
480-189539-3	MW-2B	Total/NA	Water	SM 5210B	
480-189539-4	MW-3A	Total/NA	Water	SM 5210B	
480-189539-5	MW-3B	Total/NA	Water	SM 5210B	
480-189539-10	MW-7A	Total/NA	Water	SM 5210B	
480-189575-1	CD-1	Total/NA	Water	SM 5210B	
480-189575-2	CD-1RA	Total/NA	Water	SM 5210B	
480-189575-3	MW-1B	Total/NA	Water	SM 5210B	
USB 480-596525/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-596525/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 596538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	353.2	
480-189539-2	MW-2A	Total/NA	Water	353.2	
480-189539-3	MW-2B	Total/NA	Water	353.2	
480-189539-4	MW-3A	Total/NA	Water	353.2	
480-189539-5	MW-3B	Total/NA	Water	353.2	
480-189539-6	MW-4A	Total/NA	Water	353.2	
480-189539-7	MW-5A	Total/NA	Water	353.2	
480-189539-8	MW-6A	Total/NA	Water	353.2	
480-189539-9	MW-6B	Total/NA	Water	353.2	
480-189539-10	MW-7A	Total/NA	Water	353.2	
480-189575-1	CD-1	Total/NA	Water	353.2	
480-189575-2	CD-1RA	Total/NA	Water	353.2	
480-189575-3	MW-1B	Total/NA	Water	353.2	

Analysis Batch: 596584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189575-1	CD-1	Total/NA	Water	350.1	
480-189575-2	CD-1RA	Total/NA	Water	350.1	
480-189575-3	MW-1B	Total/NA	Water	350.1	
MB 480-596584/3	Method Blank	Total/NA	Water	350.1	
LCS 480-596584/4	Lab Control Sample	Total/NA	Water	350.1	
480-189575-2 MS	CD-1RA	Total/NA	Water	350.1	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry

Prep Batch: 596616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-3	MW-2B	Total/NA	Water	351.2	
480-189539-4	MW-3A	Total/NA	Water	351.2	
480-189539-5	MW-3B	Total/NA	Water	351.2	
480-189539-6	MW-4A	Total/NA	Water	351.2	
480-189539-7	MW-5A	Total/NA	Water	351.2	
480-189539-8	MW-6A	Total/NA	Water	351.2	
480-189539-9	MW-6B	Total/NA	Water	351.2	
480-189539-10	MW-7A	Total/NA	Water	351.2	
480-189575-1	CD-1	Total/NA	Water	351.2	
480-189575-2	CD-1RA	Total/NA	Water	351.2	
480-189575-3	MW-1B	Total/NA	Water	351.2	
MB 480-596616/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-596616/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-189539-3 MS	MW-2B	Total/NA	Water	351.2	
480-189539-4 DU	MW-3A	Total/NA	Water	351.2	

Analysis Batch: 596623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	420.4	
480-189539-2	MW-2A	Total/NA	Water	420.4	
480-189539-3	MW-2B	Total/NA	Water	420.4	
480-189539-4	MW-3A	Total/NA	Water	420.4	
480-189539-5	MW-3B	Total/NA	Water	420.4	
480-189539-6	MW-4A	Total/NA	Water	420.4	
480-189539-7	MW-5A	Total/NA	Water	420.4	
480-189539-8	MW-6A	Total/NA	Water	420.4	
480-189539-9	MW-6B	Total/NA	Water	420.4	
480-189539-10	MW-7A	Total/NA	Water	420.4	
480-189575-1	CD-1	Total/NA	Water	420.4	
480-189575-2	CD-1RA	Total/NA	Water	420.4	
480-189575-3	MW-1B	Total/NA	Water	420.4	
MB 480-596623/16	Method Blank	Total/NA	Water	420.4	
MB 480-596623/44	Method Blank	Total/NA	Water	420.4	
LCS 480-596623/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-596623/45	Lab Control Sample	Total/NA	Water	420.4	
480-189539-4 MS	MW-3A	Total/NA	Water	420.4	

Analysis Batch: 596625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189575-1	CD-1	Total/NA	Water	SM 2540C	
480-189575-2	CD-1RA	Total/NA	Water	SM 2540C	
480-189575-3	MW-1B	Total/NA	Water	SM 2540C	
MB 480-596625/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-596625/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 596654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	410.4	
480-189539-2	MW-2A	Total/NA	Water	410.4	
480-189539-3	MW-2B	Total/NA	Water	410.4	
480-189539-4	MW-3A	Total/NA	Water	410.4	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry (Continued)

Analysis Batch: 596654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-5	MW-3B	Total/NA	Water	410.4	
480-189539-6	MW-4A	Total/NA	Water	410.4	
480-189539-7	MW-5A	Total/NA	Water	410.4	
MB 480-596654/76	Method Blank	Total/NA	Water	410.4	
LCS 480-596654/77	Lab Control Sample	Total/NA	Water	410.4	
480-189539-6 MS	MW-4A	Total/NA	Water	410.4	

Analysis Batch: 596665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	300.0	
480-189539-2	MW-2A	Total/NA	Water	300.0	
480-189539-3	MW-2B	Total/NA	Water	300.0	
480-189539-4	MW-3A	Total/NA	Water	300.0	
480-189539-5	MW-3B	Total/NA	Water	300.0	
480-189539-6	MW-4A	Total/NA	Water	300.0	
480-189539-7	MW-5A	Total/NA	Water	300.0	
480-189539-8	MW-6A	Total/NA	Water	300.0	
480-189539-9	MW-6B	Total/NA	Water	300.0	
480-189539-10	MW-7A	Total/NA	Water	300.0	
MB 480-596665/28	Method Blank	Total/NA	Water	300.0	
MB 480-596665/4	Method Blank	Total/NA	Water	300.0	
LCS 480-596665/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-596665/3	Lab Control Sample	Total/NA	Water	300.0	
480-189539-3 MS	MW-2B	Total/NA	Water	300.0	

Analysis Batch: 596681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189575-1	CD-1	Total/NA	Water	300.0	
480-189575-2	CD-1RA	Total/NA	Water	300.0	
480-189575-3	MW-1B	Total/NA	Water	300.0	
MB 480-596681/4	Method Blank	Total/NA	Water	300.0	
LCS 480-596681/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 596704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	SM 2540C	
480-189539-2	MW-2A	Total/NA	Water	SM 2540C	
480-189539-3	MW-2B	Total/NA	Water	SM 2540C	
MB 480-596704/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-596704/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 596705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-6	MW-4A	Total/NA	Water	SM 5210B	
480-189539-7	MW-5A	Total/NA	Water	SM 5210B	
480-189539-8	MW-6A	Total/NA	Water	SM 5210B	
480-189539-9	MW-6B	Total/NA	Water	SM 5210B	
USB 480-596705/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-596705/2	Lab Control Sample	Total/NA	Water	SM 5210B	
480-189539-6 DU	MW-4A	Total/NA	Water	SM 5210B	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry

Analysis Batch: 596803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-3	MW-2B	Total/NA	Water	351.2	596616
480-189539-4	MW-3A	Total/NA	Water	351.2	596616
480-189539-5	MW-3B	Total/NA	Water	351.2	596616
480-189539-6	MW-4A	Total/NA	Water	351.2	596616
480-189539-7	MW-5A	Total/NA	Water	351.2	596616
480-189539-8	MW-6A	Total/NA	Water	351.2	596616
480-189539-9	MW-6B	Total/NA	Water	351.2	596616
480-189539-10	MW-7A	Total/NA	Water	351.2	596616
480-189575-1	CD-1	Total/NA	Water	351.2	596616
480-189575-2	CD-1RA	Total/NA	Water	351.2	596616
480-189575-3	MW-1B	Total/NA	Water	351.2	596616
MB 480-596616/1-A	Method Blank	Total/NA	Water	351.2	596616
LCS 480-596616/2-A	Lab Control Sample	Total/NA	Water	351.2	596616
480-189539-3 MS	MW-2B	Total/NA	Water	351.2	596616
480-189539-4 DU	MW-3A	Total/NA	Water	351.2	596616

Analysis Batch: 596839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-4	MW-3A	Total/NA	Water	SM 2540C	
480-189539-5	MW-3B	Total/NA	Water	SM 2540C	
480-189539-6	MW-4A	Total/NA	Water	SM 2540C	
480-189539-7	MW-5A	Total/NA	Water	SM 2540C	
480-189539-8	MW-6A	Total/NA	Water	SM 2540C	
480-189539-9	MW-6B	Total/NA	Water	SM 2540C	
480-189539-10	MW-7A	Total/NA	Water	SM 2540C	
MB 480-596839/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-596839/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 596902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	SM 5310C	
480-189539-2	MW-2A	Total/NA	Water	SM 5310C	
480-189539-3	MW-2B	Total/NA	Water	SM 5310C	
480-189539-4	MW-3A	Total/NA	Water	SM 5310C	
480-189539-5	MW-3B	Total/NA	Water	SM 5310C	
480-189539-6	MW-4A	Total/NA	Water	SM 5310C	
480-189539-7	MW-5A	Total/NA	Water	SM 5310C	
480-189539-8	MW-6A	Total/NA	Water	SM 5310C	
480-189539-9	MW-6B	Total/NA	Water	SM 5310C	
480-189539-10	MW-7A	Total/NA	Water	SM 5310C	
480-189575-1	CD-1	Total/NA	Water	SM 5310C	
480-189575-2	CD-1RA	Total/NA	Water	SM 5310C	
480-189575-3	MW-1B	Total/NA	Water	SM 5310C	
MB 480-596902/28	Method Blank	Total/NA	Water	SM 5310C	
MB 480-596902/52	Method Blank	Total/NA	Water	SM 5310C	
LCS 480-596902/29	Lab Control Sample	Total/NA	Water	SM 5310C	
LCS 480-596902/53	Lab Control Sample	Total/NA	Water	SM 5310C	
480-189539-3 MS	MW-2B	Total/NA	Water	SM 5310C	
480-189539-3 MSD	MW-2B	Total/NA	Water	SM 5310C	

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QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry

Prep Batch: 596991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	351.2	
480-189539-2	MW-2A	Total/NA	Water	351.2	
MB 480-596991/1-A	Method Blank	Total/NA	Water	351.2	
LCS 480-596991/2-A	Lab Control Sample	Total/NA	Water	351.2	
480-189539-1 MS	MW-1A	Total/NA	Water	351.2	
480-189539-2 DU	MW-2A	Total/NA	Water	351.2	

Analysis Batch: 597027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	351.2	596991
480-189539-2	MW-2A	Total/NA	Water	351.2	596991
MB 480-596991/1-A	Method Blank	Total/NA	Water	351.2	596991
LCS 480-596991/2-A	Lab Control Sample	Total/NA	Water	351.2	596991
480-189539-1 MS	MW-1A	Total/NA	Water	351.2	596991
480-189539-2 DU	MW-2A	Total/NA	Water	351.2	596991

Analysis Batch: 597053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-2	MW-2A	Total/NA	Water	350.1	
MB 480-597053/3	Method Blank	Total/NA	Water	350.1	
MB 480-597053/51	Method Blank	Total/NA	Water	350.1	
LCS 480-597053/4	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-597053/52	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 597123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	310.2	
480-189539-2	MW-2A	Total/NA	Water	310.2	
480-189539-3	MW-2B	Total/NA	Water	310.2	
480-189539-4	MW-3A	Total/NA	Water	310.2	
480-189539-5	MW-3B	Total/NA	Water	310.2	
480-189539-6	MW-4A	Total/NA	Water	310.2	
480-189539-7	MW-5A	Total/NA	Water	310.2	
480-189539-8	MW-6A	Total/NA	Water	310.2	
480-189539-9	MW-6B	Total/NA	Water	310.2	
480-189539-10	MW-7A	Total/NA	Water	310.2	
480-189575-1	CD-1	Total/NA	Water	310.2	
480-189575-2	CD-1RA	Total/NA	Water	310.2	
480-189575-3	MW-1B	Total/NA	Water	310.2	
MB 480-597123/138	Method Blank	Total/NA	Water	310.2	
MB 480-597123/147	Method Blank	Total/NA	Water	310.2	
MB 480-597123/159	Method Blank	Total/NA	Water	310.2	
MB 480-597123/53	Method Blank	Total/NA	Water	310.2	
MB 480-597123/61	Method Blank	Total/NA	Water	310.2	
MB 480-597123/73	Method Blank	Total/NA	Water	310.2	
MB 480-597123/85	Method Blank	Total/NA	Water	310.2	
LCS 480-597123/146	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-597123/158	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-597123/60	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-597123/72	Lab Control Sample	Total/NA	Water	310.2	
LCS 480-597123/84	Lab Control Sample	Total/NA	Water	310.2	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry (Continued)

Analysis Batch: 597123 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1 MS	MW-1A	Total/NA	Water	310.2	
480-189539-1 MSD	MW-1A	Total/NA	Water	310.2	
480-189539-7 MS	MW-5A	Total/NA	Water	310.2	
480-189539-7 MSD	MW-5A	Total/NA	Water	310.2	
480-189575-1 MS	CD-1	Total/NA	Water	310.2	
480-189575-1 MSD	CD-1	Total/NA	Water	310.2	

Analysis Batch: 597309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	SM 4500 Cl- E	
480-189539-2	MW-2A	Total/NA	Water	SM 4500 Cl- E	
480-189539-3	MW-2B	Total/NA	Water	SM 4500 Cl- E	
480-189539-4	MW-3A	Total/NA	Water	SM 4500 Cl- E	
480-189539-5	MW-3B	Total/NA	Water	SM 4500 Cl- E	
480-189539-6	MW-4A	Total/NA	Water	SM 4500 Cl- E	
480-189539-7	MW-5A	Total/NA	Water	SM 4500 Cl- E	
480-189539-8	MW-6A	Total/NA	Water	SM 4500 Cl- E	
480-189539-9	MW-6B	Total/NA	Water	SM 4500 Cl- E	
480-189539-10	MW-7A	Total/NA	Water	SM 4500 Cl- E	
480-189575-1	CD-1	Total/NA	Water	SM 4500 Cl- E	
480-189575-2	CD-1RA	Total/NA	Water	SM 4500 Cl- E	
480-189575-3	MW-1B	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/35	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/47	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/57	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/69	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/81	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 480-597309/99	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 480-597309/46	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-597309/56	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-597309/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-597309/80	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 480-597309/98	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
480-189539-5 MS	MW-3B	Total/NA	Water	SM 4500 Cl- E	
480-189539-5 MSD	MW-3B	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 597310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	9038	
480-189539-2	MW-2A	Total/NA	Water	9038	
480-189539-3	MW-2B	Total/NA	Water	9038	
480-189539-4	MW-3A	Total/NA	Water	9038	
480-189539-5	MW-3B	Total/NA	Water	9038	
480-189539-6	MW-4A	Total/NA	Water	9038	
480-189539-7	MW-5A	Total/NA	Water	9038	
480-189539-8	MW-6A	Total/NA	Water	9038	
480-189539-9	MW-6B	Total/NA	Water	9038	
480-189539-10	MW-7A	Total/NA	Water	9038	
480-189575-1	CD-1	Total/NA	Water	9038	
480-189575-2	CD-1RA	Total/NA	Water	9038	
480-189575-3	MW-1B	Total/NA	Water	9038	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

General Chemistry (Continued)

Analysis Batch: 597310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-597310/53	Method Blank	Total/NA	Water	9038	
LCS 480-597310/54	Lab Control Sample	Total/NA	Water	9038	
480-189539-5 MS	MW-3B	Total/NA	Water	9038	
480-189539-5 MSD	MW-3B	Total/NA	Water	9038	

Analysis Batch: 597427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-8	MW-6A	Total/NA	Water	410.4	
480-189539-9	MW-6B	Total/NA	Water	410.4	
480-189575-1	CD-1	Total/NA	Water	410.4	
480-189575-2	CD-1RA	Total/NA	Water	410.4	
480-189575-3	MW-1B	Total/NA	Water	410.4	
MB 480-597427/4	Method Blank	Total/NA	Water	410.4	
MB 480-597427/52	Method Blank	Total/NA	Water	410.4	
MB 480-597427/76	Method Blank	Total/NA	Water	410.4	
LCS 480-597427/5	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-597427/53	Lab Control Sample	Total/NA	Water	410.4	
LCS 480-597427/77	Lab Control Sample	Total/NA	Water	410.4	
480-189575-3 MS	MW-1B	Total/NA	Water	410.4	
480-189575-3 MSD	MW-1B	Total/NA	Water	410.4	

Analysis Batch: 597638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-10	MW-7A	Total/NA	Water	410.4	
MB 480-597638/28	Method Blank	Total/NA	Water	410.4	
LCS 480-597638/29	Lab Control Sample	Total/NA	Water	410.4	

Field Service / Mobile Lab

Analysis Batch: 598354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-189539-1	MW-1A	Total/NA	Water	Field Sampling	
480-189539-2	MW-2A	Total/NA	Water	Field Sampling	
480-189539-3	MW-2B	Total/NA	Water	Field Sampling	
480-189539-4	MW-3A	Total/NA	Water	Field Sampling	
480-189539-5	MW-3B	Total/NA	Water	Field Sampling	
480-189539-6	MW-4A	Total/NA	Water	Field Sampling	
480-189539-7	MW-5A	Total/NA	Water	Field Sampling	
480-189539-8	MW-6A	Total/NA	Water	Field Sampling	
480-189539-9	MW-6B	Total/NA	Water	Field Sampling	
480-189539-10	MW-7A	Total/NA	Water	Field Sampling	
480-189575-1	CD-1	Total/NA	Water	Field Sampling	
480-189575-2	CD-1RA	Total/NA	Water	Field Sampling	
480-189575-3	MW-1B	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-1A

Lab Sample ID: 480-189539-1

Date Collected: 09/14/21 08:45

Matrix: Water

Date Received: 09/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 15:42	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/16/21 21:54	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:40	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:45	CLT	TAL BUF
Total/NA	Prep	351.2			596991	09/19/21 12:50	KEB	TAL BUF
Total/NA	Analysis	351.2		1	597027	09/20/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 18:59	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 08:18	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:13	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:30	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596704	09/16/21 15:47	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 22:12	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/16/21 22:57	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 08:45	FLD	TAL BUF

Client Sample ID: MW-2A

Lab Sample ID: 480-189539-2

Date Collected: 09/14/21 09:10

Matrix: Water

Date Received: 09/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597549	09/23/21 04:02	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597555	09/22/21 17:21	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 15:46	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		2	596665	09/16/21 22:13	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	597123	09/21/21 00:51	SRW	TAL BUF
Total/NA	Analysis	350.1		5	597053	09/20/21 10:07	CLT	TAL BUF
Total/NA	Prep	351.2			596991	09/19/21 12:50	KEB	TAL BUF
Total/NA	Analysis	351.2		2	597027	09/20/21 08:44	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 20:53	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 08:21	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:17	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:30	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596704	09/16/21 15:47	JGO	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-2A

Date Collected: 09/14/21 09:10

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 22:14	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/16/21 23:12	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 09:10	FLD	TAL BUF

Client Sample ID: MW-2B

Date Collected: 09/14/21 09:30

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 15:50	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		2	596665	09/16/21 22:31	IMZ	TAL BUF
Total/NA	Analysis	310.2		8	597123	09/21/21 00:52	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:57	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:01	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 11:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:21	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:30	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596704	09/16/21 15:47	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		2	597309	09/21/21 22:28	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 00:28	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 09:30	FLD	TAL BUF

Client Sample ID: MW-3A

Date Collected: 09/14/21 10:15

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:21	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/16/21 23:35	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/17/21 00:22	IMZ	TAL BUF
Total/NA	Analysis	310.2		1	597123	09/21/21 00:52	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:47	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-3A

Date Collected: 09/14/21 10:15

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	596538	09/15/21 19:07	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 11:06	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:46	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:31	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 CI- E		1	597309	09/21/21 22:14	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 01:15	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 10:15	FLD	TAL BUF

Client Sample ID: MW-3B

Date Collected: 09/14/21 10:35

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:25	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/16/21 23:39	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/17/21 00:41	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/21/21 00:52	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:48	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:09	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 11:43	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:53	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:31	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 CI- E		1	597309	09/21/21 22:15	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 01:31	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 10:35	FLD	TAL BUF

Client Sample ID: MW-4A

Date Collected: 09/14/21 11:00

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:29	LMH	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-4A

Date Collected: 09/14/21 11:00

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/16/21 23:43	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		2	596665	09/17/21 00:59	IMZ	TAL BUF
Total/NA	Analysis	310.2		6	597123	09/20/21 23:42	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:51	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:10	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 08:29	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 09:57	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:31	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 CI- E		1	597309	09/21/21 22:16	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596705	09/16/21 09:12	MJB	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 01:46	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 11:00	FLD	TAL BUF

Client Sample ID: MW-5A

Date Collected: 09/14/21 11:20

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:33	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/16/21 23:58	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/17/21 01:18	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:42	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:52	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:11	ALT	TAL BUF
Total/NA	Analysis	410.4		1	596654	09/16/21 11:46	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:01	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:31	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 CI- E		1	597309	09/21/21 23:24	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596705	09/16/21 09:12	MJB	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 02:01	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 11:20	FLD	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-6A

Date Collected: 09/14/21 11:45

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597549	09/23/21 04:17	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597555	09/22/21 17:24	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:37	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/17/21 01:36	IMZ	TAL BUF
Total/NA	Analysis	310.2		3	597123	09/20/21 23:44	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:53	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 20:54	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597427	09/21/21 20:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:04	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 00:58	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 23:26	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596705	09/16/21 09:12	MJB	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 02:17	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 11:45	FLD	TAL BUF

Client Sample ID: MW-6B

Date Collected: 09/14/21 12:15

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:41	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/17/21 00:05	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596665	09/17/21 03:27	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:44	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:53	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:14	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597427	09/21/21 20:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:08	CLT	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-6B

Date Collected: 09/14/21 12:15

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9038		1	597310	09/22/21 00:58	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 23:47	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596705	09/16/21 09:12	MJB	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 03:03	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 12:15	FLD	TAL BUF

Client Sample ID: MW-7A

Date Collected: 09/14/21 08:25

Date Received: 09/15/21 08:00

Lab Sample ID: 480-189539-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 16:56	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		2	596665	09/17/21 03:45	IMZ	TAL BUF
Total/NA	Analysis	310.2		5	597123	09/20/21 23:44	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596427	09/15/21 11:54	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:05	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:15	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597638	09/22/21 19:06	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:12	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 00:58	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596839	09/17/21 12:13	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 23:26	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 03:18	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/14/21 08:25	FLD	TAL BUF

Client Sample ID: CD-1

Date Collected: 09/13/21 11:45

Date Received: 09/15/21 10:30

Lab Sample ID: 480-189575-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597549	09/23/21 04:21	LMH	TAL BUF
Dissolved	Filtration	FILTRATION			596670	09/16/21 13:50	ADM	TAL BUF
Dissolved	Prep	3005A			597284	09/22/21 09:19	ADM	TAL BUF
Dissolved	Analysis	6010C		1	597555	09/22/21 17:28	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 17:12	LMH	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: CD-1

Date Collected: 09/13/21 11:45

Date Received: 09/15/21 10:30

Lab Sample ID: 480-189575-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		2	596950	09/17/21 17:16	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596681	09/16/21 17:19	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:48	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596584	09/16/21 08:07	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 21:08	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597427	09/21/21 20:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:41	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 00:59	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596625	09/16/21 11:33	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 23:27	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 04:19	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/13/21 11:45	FLD	TAL BUF

Client Sample ID: CD-1RA

Date Collected: 09/13/21 12:30

Date Received: 09/15/21 10:30

Lab Sample ID: 480-189575-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 17:20	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596681	09/16/21 17:38	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:49	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596584	09/16/21 08:05	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:29	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597427	09/21/21 20:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:45	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:00	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596625	09/16/21 11:33	JGO	TAL BUF
Total/NA	Analysis	SM 4500 Cl- E		1	597309	09/21/21 23:27	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 04:34	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/13/21 12:30	FLD	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Client Sample ID: MW-1B

Lab Sample ID: 480-189575-3

Date Collected: 09/13/21 13:25

Matrix: Water

Date Received: 09/15/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596950	09/17/21 17:24	LMH	TAL BUF
Total/NA	Prep	3005A			596518	09/16/21 10:56	ADM	TAL BUF
Total/NA	Analysis	6010C		1	596802	09/17/21 00:42	LMH	TAL BUF
Total/NA	Analysis	SM 2340B		1	597531	09/23/21 09:10	JJP	TAL BUF
Total/NA	Analysis	300.0		1	596681	09/16/21 17:56	IMZ	TAL BUF
Total/NA	Analysis	310.2		2	597123	09/20/21 23:50	SRW	TAL BUF
Total/NA	Analysis	350.1		1	596584	09/16/21 08:08	CLT	TAL BUF
Total/NA	Prep	351.2			596616	09/16/21 11:07	KEB	TAL BUF
Total/NA	Analysis	351.2		1	596803	09/17/21 08:13	CLT	TAL BUF
Total/NA	Analysis	353.2		1	596538	09/15/21 19:34	ALT	TAL BUF
Total/NA	Analysis	410.4		1	597427	09/21/21 20:03	CSS	TAL BUF
Total/NA	Analysis	420.4		1	596623	09/16/21 10:48	CLT	TAL BUF
Total/NA	Analysis	9038		1	597310	09/22/21 01:00	SRW	TAL BUF
Total/NA	Analysis	SM 2540C		1	596625	09/16/21 11:33	JGO	TAL BUF
Total/NA	Analysis	SM 4500 CI- E		1	597309	09/21/21 23:27	SRW	TAL BUF
Total/NA	Analysis	SM 5210B		1	596525	09/15/21 12:28	CSS	TAL BUF
Total/NA	Analysis	SM 5310C		1	596902	09/17/21 04:50	CLA	TAL BUF
Total/NA	Analysis	Field Sampling		1	598354	09/13/21 13:25	FLD	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

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	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
300.0		Water	Bromide
9038		Water	Sulfate
Field Sampling		Water	Field Conductivity
Field Sampling		Water	Field EH/ORP
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Field Turbidity
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Static Water Level
SM 2540C		Water	Total Dissolved Solids
SM 5310C		Water	TOC Result 1
SM 5310C		Water	TOC Result 2

Method Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL BUF
SM 2340B	Total Hardness (as CaCO ₃) by calculation	SM	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
310.2	Alkalinity	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
410.4	COD	MCAWW	TAL BUF
420.4	Phenolics, Total Recoverable	MCAWW	TAL BUF
9038	Sulfate, Turbidimetric	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 4500 Cl- E	Chloride, Total	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310C	TOC	SM	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
FILTRATION	Sample Filtration	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Sample Summary

Client: Cortland Cty Soil & Water Cons District
Project/Site: Towslee Landfill - Routine

Job ID: 480-189539-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-189539-1	MW-1A	Water	09/14/21 08:45	09/15/21 08:00
480-189539-2	MW-2A	Water	09/14/21 09:10	09/15/21 08:00
480-189539-3	MW-2B	Water	09/14/21 09:30	09/15/21 08:00
480-189539-4	MW-3A	Water	09/14/21 10:15	09/15/21 08:00
480-189539-5	MW-3B	Water	09/14/21 10:35	09/15/21 08:00
480-189539-6	MW-4A	Water	09/14/21 11:00	09/15/21 08:00
480-189539-7	MW-5A	Water	09/14/21 11:20	09/15/21 08:00
480-189539-8	MW-6A	Water	09/14/21 11:45	09/15/21 08:00
480-189539-9	MW-6B	Water	09/14/21 12:15	09/15/21 08:00
480-189539-10	MW-7A	Water	09/14/21 08:25	09/15/21 08:00
480-189575-1	CD-1	Water	09/13/21 11:45	09/15/21 10:30
480-189575-2	CD-1RA	Water	09/13/21 12:30	09/15/21 10:30
480-189575-3	MW-1B	Water	09/13/21 13:25	09/15/21 10:30

Chain of Custody Record

[illegible]

Chain of Custody Record

Client Information Client Contact: Ms. Kathleen McGrath Company: Cortland City Soil & Water Cons District Address: 100 Grange Place Rm 202 City: Cortland State: NY Zip: 13045 Phone: 607-345-4624(Tel) Email: kathleen.mcgrath@cortlandswcd.org Project Name: Cortland Landfill/ Event Desc: Towstee Landfill - Routine Site: New York		Lab PM: Johnson, Oriette S E-Mail: Oriette.Johnson@Eurofinset.com PWSID:		Sampler: K McGrath Phone:		COC No: 480-164044-17547.2 Page: 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): Compliance Project: ☒ Yes ☐ No PO #: Purchase Order not required WO #: Project #: 48009337 SSOW#:		Analysis Requested 300.0, 28D - Bromide 350.1, 351.2, 410.4 6010C, SM2340B 5210B - Biochemical Oxygen Demand 2540C, Calcd - Total Dissolved Solids 353.2, 353.2, Nitrite, 9038, Nitrate, Calc, SM4500, CL E 310.2 - Alkalinity, Total 5310C - Total Organic Carbon 420.4, NP - Total Phenolics Total Number of containers					
Sample Identification MW-6B MW-7A		Sample Date 9/14/21 9/14/21	Sample Time 12:15 8:25	Sample Type G G	Matrix W=water, S=solid, O=soil, B=biomass, T=tissue, A=air Water Water	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	
Preservation Code:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Special Instructions/Note:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by: K McGrath		Date: 9/14/21		Time: 3:00pm		Company:	
Relinquished by: K McGrath		Date: 9/14/21		Time: 1900		Company:	
Relinquished by:		Date:		Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver: 06/08/2021	

Chain of Custody Record

Client Information Client Contact: Ms. Kathleen McGrath Company: Cortland City Soil & Water Cons District Address: 100 Grange Place Rm 202 City: Cortland State: NY, Zip: 13045 Phone: 607-345-4624(Tel) Email: kathleen.mcgrath@corlandswcd.org Project Name: Cortland Landfill/ Event Desc: Towslee Landfill - Routine Site: New York		Sample: RE McGrath Lab PM: Johnson, Oriette S Phone: _____ E-Mail: Oriette.Johnson@Eurofins.com PWSID: _____		QOC No: 480-164044-17547.1 Page: Page 1 of 2 State of Origin: #225 Job #: _____										
Due Date Requested: TAT Requested (days): regular Compliance Project: ☒ Yes ☐ No PO #: _____ Purchase Order not required WO #: _____		Analysis Requested 5210B - Biochemical Oxygen Demand 6010C, SM2340B 350.1, 351.2, 410.4 300.0, 28D - Bromide Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)												
Sample Identification Sample Date Sample Time Sample Type (G=grab, B=solid, L=liquid, S=suspension) Matrix (W=water, B=solid, L=liquid, S=suspension) Preservation Code: _____		Total Number of Containers: _____ Note: _____ Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)												
CD-1	9/13/21	11:45	G	Water	CD-1	9/13/21	11:45	G	Water	CD-1	9/13/21	11:45	G	Water
CD-1RA	9/13/21	12:30	G	Water	CD-1RA	9/13/21	12:30	G	Water	CD-1RA	9/13/21	12:30	G	Water
MW-1A	9/13/21	1:25	G	Water	MW-1A	9/13/21	1:25	G	Water	MW-1A	9/13/21	1:25	G	Water
MW-1B				Water	MW-1B				Water	MW-1B				Water
MW-2A				Water	MW-2A				Water	MW-2A				Water
MW-2B				Water	MW-2B				Water	MW-2B				Water
MW-3A				Water	MW-3A				Water	MW-3A				Water
MW-3B				Water	MW-3B				Water	MW-3B				Water
MW-4A				Water	MW-4A				Water	MW-4A				Water
MW-5A				Water	MW-5A				Water	MW-5A				Water
MW-6A				Water	MW-6A				Water	MW-6A				Water
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements: _____				
Empty Kit Relinquished by: _____ Date/Time: 9/13/21, 16:45 Company: Syn										Method of Shipment: _____ Date/Time: 9/13/21, 16:45 Company: Syn				
Relinquished by: _____ Date/Time: 9/13/21, 19:05 Company: Syn										Relinquished by: _____ Date/Time: 9/13/21, 19:05 Company: Syn				
Relinquished by: _____ Date/Time: _____ Company: _____										Relinquished by: _____ Date/Time: _____ Company: _____				
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.: _____										Cooler Temperature(s) °C and Other Remarks: #1 3.4, 3.7				

order	SAMPDATE	PROTOCOL	METHOD	PCODE	Datasource	CLIENTID	PARAMETER	RESULT	RL	FLAGS	UM
1	9/13/21	EPA	Field Sampling	STL00392	CortSWCD	CD-1	Field Turbidity	343			NTRU
2	9/13/21	EPA	Field Sampling	STL00246	CortSWCD	CD-1	Field Temperature	13.3			DEGREES C
3	9/13/21	EPA	Field Sampling	STL00082	CortSWCD	CD-1	Field Oxygen, Dissolved	3.29			MG/L
4	9/13/21	EPA	Field Sampling	STL00244	CortSWCD	CD-1	Field Conductivity	212.0			UMHOS/CM
5	9/13/21	EPA	Field Sampling	STL00199	CortSWCD	CD-1	Field pH	7.55			SU
6	9/13/21	EPA	Field Sampling	STL00811	CortSWCD	CD-1	Field EH/ORP	166.2			mV
7	9/13/21	EPA	Field Sampling	STL00598	CortSWCD	CD-1	Field Static Water Level	8.22	0.01		FT
1	9/13/21	EPA	Field Sampling	STL00392	CortSWCD	CD-1RA	Field Turbidity	14.5			NTU
2	9/13/21	EPA	Field Sampling	STL00246	CortSWCD	CD-1RA	Field Temperature	12.2			DEGREES C
3	9/13/21	EPA	Field Sampling	STL00082	CortSWCD	CD-1RA	Field Oxygen, Dissolved	1.90			MG/L
4	9/13/21	EPA	Field Sampling	STL00244	CortSWCD	CD-1RA	Field Conductivity	228.1			UMHOS/CM
5	9/13/21	EPA	Field Sampling	STL00199	CortSWCD	CD-1RA	Field pH	7.42			SU
6	9/13/21	EPA	Field Sampling	STL00811	CortSWCD	CD-1RA	Field EH/ORP	162.4			mV
7	9/13/21	EPA	Field Sampling	STL00598	CortSWCD	CD-1RA	Field Static Water Level	6.00	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-1A	Field Turbidity	9.12			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-1A	Field Temperature	17.1			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-1A	Field Oxygen, Dissolved	2033			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-1A	Field Conductivity	321.7			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-1A	Field pH	7.1			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-1A	Field EH/ORP	56.6			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-1A	Field Static Water Level	4.53	0.01		FT
1	9/13/21	EPA	Field Sampling	STL00392	CortSWCD	MW-1B	Field Turbidity	4.63			NTU
2	9/13/21	EPA	Field Sampling	STL00246	CortSWCD	MW-1B	Field Temperature	12.4			DEGREES C
3	9/13/21	EPA	Field Sampling	STL00082	CortSWCD	MW-1B	Field Oxygen, Dissolved	2.58			MG/L
4	9/13/21	EPA	Field Sampling	STL00244	CortSWCD	MW-1B	Field Conductivity	181.9			UMHOS/CM
5	9/13/21	EPA	Field Sampling	STL00199	CortSWCD	MW-1B	Field pH	7.31			SU
6	9/13/21	EPA	Field Sampling	STL00811	CortSWCD	MW-1B	Field EH/ORP	163.2			mV
7	9/13/21	EPA	Field Sampling	STL00598	CortSWCD	MW-1B	Field Static Water Level	2.39	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-2A	Field Turbidity	65.6			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-2A	Field Temperature	16.2			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-2A	Field Oxygen, Dissolved	4.32			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-2A	Field Conductivity	535			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-2A	Field pH	6.16			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-2A	Field EH/ORP	22.9			mV

7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-2A	Field Static Water Level	5.33	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-2B	Field Turbidity	1.30			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-2B	Field Temperature	14.6			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-2B	Field Oxygen, Dissolved	3.85			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-2B	Field Conductivity	1015			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-2B	Field pH	6.14			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-2B	Field EH/ORP	72.3			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-2B	Field Static Water Level	8.08	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-3A	Field Turbidity	4.96			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-3A	Field Temperature	13.9			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-3A	Field Oxygen, Dissolved	3.10			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-3A	Field Conductivity	132.4			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-3A	Field pH	6.13			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-3A	Field EH/ORP	159.6			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-3A	Field Static Water Level	9.09	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-3B	Field Turbidity	1.76			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-3B	Field Temperature	12.3			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-3B	Field Oxygen, Dissolved	4.25			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-3B	Field Conductivity	270.6			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-3B	Field pH	6.37			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-3B	Field EH/ORP	132.6			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-3B	Field Static Water Level	15.41	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-4A	Field Turbidity	3.50			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-4A	Field Temperature	13.5			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-4A	Field Oxygen, Dissolved	3.15			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-4A	Field Conductivity	611			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-4A	Field pH	6.29			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-4A	Field EH/ORP	137.7			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-4A	Field Static Water Level	8.47	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-5A	Field Turbidity	3.22			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-5A	Field Temperature	16.5			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-5A	Field Oxygen, Dissolved	3.72			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-5A	Field Conductivity	262.6			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-5A	Field pH	7.07			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-5A	Field EH/ORP	124.1			mV

7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-5A	Field Static Water Level	8.97	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-6A	Field Turbidity	199			NTRU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-6A	Field Temperature	14.3			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-6A	Field Oxygen, Dissolved	2.97			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-6A	Field Conductivity	402.4			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-6A	Field pH	6.46			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-6A	Field EH/ORP	153.2			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-6A	Field Static Water Level	11.72	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-6B	Field Turbidity	5.72			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-6B	Field Temperature	13.3			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-6B	Field Oxygen, Dissolved	1.98			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-6B	Field Conductivity	313.0			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-6B	Field pH	6.38			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-6B	Field EH/ORP	146.4			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-6B	Field Static Water Level	11.88	0.01		FT
1	9/14/21	EPA	Field Sampling	STL00392	CortSWCD	MW-7A	Field Turbidity	3.9			NTU
2	9/14/21	EPA	Field Sampling	STL00246	CortSWCD	MW-7A	Field Temperature	15.4			DEGREES C
3	9/14/21	EPA	Field Sampling	STL00082	CortSWCD	MW-7A	Field Oxygen, Dissolved	2.32			MG/L
4	9/14/21	EPA	Field Sampling	STL00244	CortSWCD	MW-7A	Field Conductivity	500			UMHOS/CM
5	9/14/21	EPA	Field Sampling	STL00199	CortSWCD	MW-7A	Field pH	7.02			SU
6	9/14/21	EPA	Field Sampling	STL00811	CortSWCD	MW-7A	Field EH/ORP	12.3			mV
7	9/14/21	EPA	Field Sampling	STL00598	CortSWCD	MW-7A	Field Static Water Level	4.43	0.01		FT

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-189539-1

SDG Number:

Login Number: 189539

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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

Login Sample Receipt Checklist

Client: Cortland Cty Soil & Water Cons District

Job Number: 480-189539-1

SDG Number:

Login Number: 189575

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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	CCSWCD
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Cortland County Landfill Groundwater Sampling

Year/Quarter 21/3

INSTRUMENT CALIBRATION:

Turbidity 0.0 Lot # 19450097 Exp. 5/21 10.0 Lot # 20020047 Exp. 7/21

pH 4.0 Lot # CC657900 Exp. 4/20/22 7.0 Lot # CC704904 Exp. 12/9/22

10.0 Lot # CC656950 Exp. 4/13/22

Conductivity Lot # 7912120 Exp. 12/21

Zobells/ORP Lot# L022-20 Exp. 2/4/22

DO by % _____

Karl Z McLaugh
Signature

9/10/21
Date

Don't prepurge

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID CD-1

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 11:45

Weather _____

Method of Sampling:

Bailer

Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 14.28

Purge Volume Goal (gal) 2.97 → 3

Depth to Water (ft.; from top of PVC) 8.22

Actual Volume Purged (gal) 3

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
11:45	343	13.3	3.29	212.0	7.55	166.2

COMMENTS AND OBSERVATIONS: Diss metals

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/21

By: KEM

Agency: Cortland Co SWCD

PREPURGE**PUMP!****FIELD OBSERVATIONS** Year 2021 Quarter _____Landfill TowsleeSample Point ID CD1-RAField Personnel KEM/TBSample Matrix MW- Water**SAMPLING INFORMATION:**Date/Time 9/13/21 12:10Weather 12:30 68°F Sunny WNW 7MPH

Method of Sampling:

Bailer

Grab

Dedicated?

YES

NO

Well Diameter 2"Well Depth to Bottom (ft.; from top of PVC) 48.99Purge Volume Goal (gal) 21.06 → 21Depth to Water (ft.; from top of PVC) 6.0Actual Volume Purged (gal) 21**SAMPLING DATA:**

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
12:10	14.5	12.2	1.90	228.1	7.42	162.4

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/21By: KEMAgency: Cortland Co SWCD

~~ARTESIAN~~

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-1A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/14/21 8:45

Weather _____

Method of Sampling:

Bailer Grab

Dedicated?

YES

NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 35.50

Purge Volume Goal (gal)

15.15 → 15 1/2

Depth to Water (ft.; from top of PVC) 4.53

Actual Volume Purged (gal)

6 Dry
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>8:45</u>	<u>9.12</u>	<u>17.1</u>	<u>2.33</u>	<u>321.7</u>	<u>7.08</u>	<u>56.6</u>

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

ARTESIAN

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-1B

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 1:25

Weather _____

Method of Sampling: Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 55.00

Purge Volume Goal (gal) 24.3 → 24 1/2

Depth to Water (ft.; from top of PVC) 2.34

Actual Volume Purged (gal) 24 1/2

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>1:25</u>	<u>4.63</u>	<u>12.4</u>	<u>2.58</u>	<u>181.9</u>	<u>7.31</u>	<u>163.2</u>

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/13/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-2A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 12:30 pm 9/14/21 9:10
purge sample

Weather _____

Method of Sampling: Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 12.80

Purge Volume Goal (gal) 3.66 → 4

Depth to Water (ft.; from top of PVC) 5.33

Actual Volume Purged (gal) 3.5 9/13/21 Empty

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>9:10</u>	<u>65.6</u>	<u>16.2</u>	<u>4.32</u>	<u>535</u>	<u>6.16</u>	<u>22.9</u>

COMMENTS AND OBSERVATIONS: Diss metals

Small Shake in Well

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-2B

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 12:45 pm } purge 9/14/21 9:30
sample

Weather _____

Method of Sampling: Bailer Grab Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 33.50

Purge Volume Goal (gal) 12.45 → 12 1/2

Depth to Water (ft.; from top of PVC) 8.08

Actual Volume Purged (gal) 12 1/2
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
9:30	1.30	14.6	3.85	1015	6.14	72.3

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: ICGM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-3A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/14/21 10:15

Weather _____

Method of Sampling: Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 22.40

Purge Volume Goal (gal) 6.51 → 6 1/2

Depth to Water (ft.; from top of PVC) 9.09

Actual Volume Purged (gal) 4 1/2 Dry
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
10:15	4.96	13.9	3.10	132.4	6.13	159.6

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-3B

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/14/21 10:35

Weather _____

Method of Sampling: Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 44.40

Purge Volume Goal (gal) 14.19 → 14 1/2

Depth to Water (ft.; from top of PVC) 15.41

Actual Volume Purged (gal) 9 Dry
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>10:35</u>	<u>1.76</u>	<u>12.3</u>	<u>4.25</u>	<u>270.6</u>	<u>6.37</u>	<u>132.6</u>

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-4A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/14/21 11:00

Weather _____

Method of Sampling: Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 32.40

Purge Volume Goal (gal) 11.73 → 12

Depth to Water (ft.; from top of PVC) 8.47

Actual Volume Purged (gal) 5 1/2 Dry
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
11:00	3.50	13.5	3.15	611	6.29	137.7

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-5A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 1:25 pm } purge 9/14/21 11:20 } sample

Weather _____

Method of Sampling: Bailer Grab Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 32.30

Purge Volume Goal (gal) 6.54 → 6 1/2

Depth to Water (ft.; from top of PVC) 8.97

Actual Volume Purged (gal) 4.5 Empty
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>11:20</u>	<u>3.22</u>	<u>16.5</u>	<u>3.72</u>	<u>262.6</u>	<u>7.07</u>	<u>124.1</u>

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: VKM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-6A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 2:10 pm 3 purge 9/14/21 11:45 } sample

Weather _____

Method of Sampling:

☒ Bailer ☐ Grab

Dedicated? ☒ YES ☐ NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 19.16

Purge Volume Goal (gal) 3.63 → 4

Depth to Water (ft.; from top of PVC) 11.72

Actual Volume Purged (gal) 4.0
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
11:45	199	14.3	2.97	402.4	6.46	153.2

COMMENTS AND OBSERVATIONS: Diss metals

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-6B

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 9/13/21 1:50 pm } purge 9/14/21 12:15 } sample

Weather 75°F overcast 55w 10 MPH

Method of Sampling:

Bailer Grab

Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 40.80

Purge Volume Goal (gal) 14.2 → 14 1/2

Depth to Water (ft.; from top of PVC) 11.88

Actual Volume Purged (gal) 11.0 9/13/21 Empty

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
<u>12:15</u>	<u>5.72</u>	<u>13.3</u>	<u>1.98</u>	<u>313.0</u>	<u>6.38</u>	<u>146.4</u>

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: Kem

Agency: Cortland Co SWCD

FIELD OBSERVATIONS Year 2021 Quarter 3

Landfill Towslee

Sample Point ID MW-7A

Field Personnel KEM/TB

Sample Matrix MW- Water

SAMPLING INFORMATION:

Date/Time 2:25 pm 9/13/21 9/14/21 8:25
(page) (sample)

Weather 60°F SSE 3 Overcast

Method of Sampling: Bailer Grab Dedicated? YES NO

Well Diameter 2"

Well Depth to Bottom (ft.; from top of PVC) 22.60

Purge Volume Goal (gal) 8.91 → 9

Depth to Water (ft.; from top of PVC) 4.43

Actual Volume Purged (gal) 9 gal
9/13/21

SAMPLING DATA:

Time	Turbidity (NTU)	Temperature (°C)	DO (mg/L)	Conductivity (µmhos/cm)	pH (std units)	ORP (mV)
8:25	3.9	15.4	2.32	500	7.02	12.3

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, state and site-specific protocols.

Date: 9/14/21

By: KEM

Agency: Cortland Co SWCD

Landfill

Towslee

Year, Quarter

2021, 3

Date

9/13/21

Initials

KGM

Time	ID	Sample Location	%CH4	
8:10	CD-1/CD-1RA	GW monitoring well	00.0	00.0
9:09	MW-1A/B	GW monitoring well	00.0	00.0
8:38	MW-2A/B	GW monitoring well	00.0	00.0
8:23	MW-3A/B	GW monitoring well	00.0	00.0
8:32	MW-4A	GW monitoring well	00.0	
8:02	MW-5A	GW monitoring well	00.0	
7:58	MW-6A/B	GW monitoring well	00.0	00.0
9:01	MW-7A	GW monitoring well	00.0	
9:46	Scale House	Basement Ambient	00.0	

Weather	8:00AM 57°F cloudy NW 2 MPH
Equipment	GEM2000