AECOM Environment

First Quarter 2022 – January, February, March Operation, Maintenance, and Monitoring Report

CHEM-TROL Site
NYSDEC Site No. 9-15-015
Report.hw915015.2022-04-22.1Q2022OMM

Site:
CHEM-TROL Site
4800 Lake Avenue
Blasdell, New York 14219

Submitted to:
NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

Prepared for:
SC Holdings, Inc.
600 New Ludlow Road
South Hadley, MA 01075

Prepared by:
AECOM
1 John James Audubon Parkway, Suite 210
Amherst, New York 14228

April 22, 2022

AECOM Project No. 60652207.3

AECOM
1 John James Audubon Pkwy
Suite 210
Amherst, NY 14228

716 856 5636 tel
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April 22, 2022

SUBMITTED VIA ELECTRONIC MAIL

Mr. Glenn May, PG
NYSDEC
Region 9 Office
270 Michigan Avenue
Buffalo, NY 14203

RE: S.C. Holdings, Inc., 4818 Lake Avenue, Blasdell, New York 14219
First Quarter 2022 Operation, Maintenance, and Monitoring Report
Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2022-04-22.1Q2022OMM

Dear Mr. May:

Enclosed please find the First Quarter 2022 (1Q22 – January, February, March) Operation, Maintenance, and Monitoring Report for the "Chem-Trol" project site. AECOM is submitting this quarterly monitoring report on behalf of our client, SC Holdings, Inc.

The enclosed report contains the following information for 1Q22:

- Operation, Maintenance and Monitoring Checklists
- Summary Tables of Analytical Results and Flow Readings
- Copies of Analytical Results and Chain-of-Custody Forms

A summary of each month within 1Q22 is as follows:

January 2022

AECOM collected the monthly monitoring samples on January 5 2022; analytical data were received on January 18, 2022. As presented on Table 1 (January 5, 2022), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

February 2022

AECOM collected the monthly monitoring samples on February 23, 2022; analytical data were received on March 3, 2022. As presented on Table 1 (February 23, 2022), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

March 2022

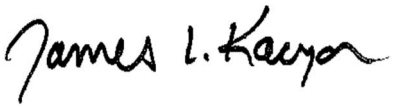
On March 17, 2022, AECOM performed pressure washing and mechanical cleaning of the air stripper trays.

AECOM collected the monthly monitoring samples on March 24, 2022; analytical data were received on April 7, 2022. As presented on Table 1 (March 24, 2022), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On March 15, 2022, AECOM collected the 1Q22 quarterly groundwater levels.

If you have any questions regarding the information presented in this report please contact me at (716) 923-1300.

Very truly yours,
AECOM



James L. Kaczor
Project Manager

Enclosure

cc: Ryan Donovan (SC Holdings, Inc.) (electronic copy)
60652207 Project File

January 2022

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Sean P. Connelly Weather/Temperature: Overcast, 28 F
Date: 1/5/2022 Arrival Time: 16:00 Departure Time: 17:15

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See Notes/Explanations section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel.
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		None
Building Heater	X	Heater is on.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	
Iron Removal Filter	**NA**	As of June 2021, there is no longer an iron removal filter tank.
Flow Meters	**X**	See Notes/Explanations section.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	Pump is currently down
EW-1 Transducer	**X**	
EW-1 Flow Meter		EW-1 flow meter/totalizer screen no longer functioning.
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	294 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	186 Inches
Flow Meter Reading	28,528,922 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	205 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	19.5 Inches H2O

Effluent Flow

Total System Meter Reading	72,663,348 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Total system flow was timed at 3.5 gpm on system totalizer flow meter. During the visit, EW-2, and EW-3 influent valves were individually closed to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-2 and EW-3. EW-1 is currently down.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (4Q2021) was collected on December 9, 2021.

The air stripper trays were last mechanically cleaned on December 1, 2021.

The monthly samples were collected today, January 5, 2021, by AECOM.

Table 1
January 5, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	2,567	2,567	144,000	gpd	NA	NA	NA
pH	7.2	7.9	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0001	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0001	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
o-Chlorotoluene	2,100	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Iron - Total	1,370	927	3,000	ug/L	0.02	3.61	lbs/day
TSS	< 4.0	< 4.0	20	mg/L	< 0.09		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured December 2, 2021 through January 5, 2022.*

Table 2
January 5, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 1/5/2022	units	Prior Report 12/2/2021
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	294	Inches	292
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	186	Inches	184
Flow Meter Reading	28,528,922	gallons	28,528,920
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	205	Inches	215
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	19.5	inches H_2O	14.0
Effluent Flow			
Total System Meter Reading	72,663,348	gallons	72,578,625
Average System Flow Since Prior Report	2,567	gpd	
	107.0	gph	
	1.8	gpm	
Influent o-Chlorotoluene concentration	2,100	ug/L	
Current month mass removal	0.7	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-193922-1
Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
1/18/2022 2:28:23 PM
Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Job ID: 480-193922-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-193922-1

Comments
No additional comments.

Receipt
The samples were received on 1/6/2022 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-193922-2). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-193922-1) and Influent (480-193922-2).

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

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Client Sample ID: Effluent — Lab Sample ID: 480-193922-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	927		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.3	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-193922-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	2100		13		ug/L	40		624.1	Total/NA
Iron	1370		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.2	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	22.4	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-193922-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Client Sample ID: Effluent

Date Collected: 01/05/22 16:10
Date Received: 01/06/22 13:00

Lab Sample ID: 480-193922-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/06/22 17:38	1
1,1-Dichloroethane	ND		5.0		ug/L			01/06/22 17:38	1
1,1-Dichloroethene	ND		5.0		ug/L			01/06/22 17:38	1
Benzene	ND		5.0		ug/L			01/06/22 17:38	1
Chlorobenzene	ND		5.0		ug/L			01/06/22 17:38	1
Chloroethane	ND		5.0		ug/L			01/06/22 17:38	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/06/22 17:38	1
Toluene	ND		5.0		ug/L			01/06/22 17:38	1
Trichloroethene	ND		5.0		ug/L			01/06/22 17:38	1
o-Chlorotoluene	ND		5.0		ug/L			01/06/22 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*01/06/22 17:38*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*01/06/22 17:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*01/06/22 17:38*	*1*
Toluene-d8 (Surr)	*102*		*77 - 120*		*01/06/22 17:38*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**927**		50.0		ug/L		01/07/22 09:21	01/07/22 17:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/07/22 12:56	1
pH	**7.9**	**HF**	0.1		SU			01/09/22 16:31	1
Temperature	**22.3**	**HF**	0.001		Degrees C			01/09/22 16:31	1

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Client Sample ID: Influent

Date Collected: 01/05/22 16:30
Date Received: 01/06/22 13:00

Lab Sample ID: 480-193922-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			01/06/22 18:03	40
1,1-Dichloroethane	ND		24		ug/L			01/06/22 18:03	40
1,1-Dichloroethene	ND		34		ug/L			01/06/22 18:03	40
Benzene	ND		24		ug/L			01/06/22 18:03	40
Chlorobenzene	ND		19		ug/L			01/06/22 18:03	40
Chloroethane	ND		35		ug/L			01/06/22 18:03	40
cis-1,2-Dichloroethene	ND		23		ug/L			01/06/22 18:03	40
Toluene	ND		18		ug/L			01/06/22 18:03	40
Trichloroethene	ND		24		ug/L			01/06/22 18:03	40
o-Chlorotoluene	**2100**		13		ug/L			01/06/22 18:03	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*01/06/22 18:03*	*40*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*01/06/22 18:03*	*40*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*01/06/22 18:03*	*40*
Toluene-d8 (Surr)	*99*		*77 - 120*		*01/06/22 18:03*	*40*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1370**		50.0		ug/L		01/07/22 09:21	01/07/22 17:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/07/22 12:56	1
pH	**7.2**	**HF**	0.1		SU			01/09/22 16:34	1
Temperature	**22.4**	**HF**	0.001		Degrees C			01/09/22 16:34	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Client Sample ID: Trip Blank

Date Collected: 01/05/22 00:00
Date Received: 01/06/22 13:00

Lab Sample ID: 480-193922-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/06/22 18:26	1
1,1-Dichloroethane	ND		5.0		ug/L			01/06/22 18:26	1
1,1-Dichloroethene	ND		5.0		ug/L			01/06/22 18:26	1
Benzene	ND		5.0		ug/L			01/06/22 18:26	1
Chlorobenzene	ND		5.0		ug/L			01/06/22 18:26	1
Chloroethane	ND		5.0		ug/L			01/06/22 18:26	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/06/22 18:26	1
Toluene	ND		5.0		ug/L			01/06/22 18:26	1
Trichloroethene	ND		5.0		ug/L			01/06/22 18:26	1
o-Chlorotoluene	ND		5.0		ug/L			01/06/22 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*		*01/06/22 18:26*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*01/06/22 18:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*01/06/22 18:26*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*01/06/22 18:26*	*1*

QC Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-611000/8
Matrix: Water
Analysis Batch: 611000

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			01/06/22 16:11	1
1,1-Dichloroethane	ND		5.0		ug/L			01/06/22 16:11	1
1,1-Dichloroethene	ND		5.0		ug/L			01/06/22 16:11	1
Benzene	ND		5.0		ug/L			01/06/22 16:11	1
Chlorobenzene	ND		5.0		ug/L			01/06/22 16:11	1
Chloroethane	ND		5.0		ug/L			01/06/22 16:11	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/06/22 16:11	1
Toluene	ND		5.0		ug/L			01/06/22 16:11	1
Trichloroethene	ND		5.0		ug/L			01/06/22 16:11	1
o-Chlorotoluene	ND		5.0		ug/L			01/06/22 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*01/06/22 16:11*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*01/06/22 16:11*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*01/06/22 16:11*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*01/06/22 16:11*	*1*

Lab Sample ID: LCS 480-611000/6
Matrix: Water
Analysis Batch: 611000

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.7		ug/L		108	52 - 162
1,1-Dichloroethane	20.0	21.4		ug/L		107	59 - 155
1,1-Dichloroethene	20.0	22.4		ug/L		112	1 - 234
Benzene	20.0	22.2		ug/L		111	37 - 151
Chlorobenzene	20.0	21.8		ug/L		109	37 - 160
Chloroethane	20.0	22.3		ug/L		111	14 - 230
Toluene	20.0	20.8		ug/L		104	47 - 150
Trichloroethene	20.0	21.8		ug/L		109	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*
Dibromofluoromethane (Surr)	*105*		*75 - 123*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-611005/1-A
Matrix: Water
Analysis Batch: 611211

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 611005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		01/07/22 09:21	01/07/22 16:04	1

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

Lab Sample ID: LCS 480-611005/2-A
Matrix: Water
Analysis Batch: 611211

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 611005

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10000	9835		ug/L		98	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-611118/1
Matrix: Water
Analysis Batch: 611118

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			01/07/22 12:56	1

Lab Sample ID: LCS 480-611118/2
Matrix: Water
Analysis Batch: 611118

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			292	286.4		mg/L		98	88 - 110		

Lab Sample ID: 480-193922-1 DU
Matrix: Water
Analysis Batch: 611118

Client Sample ID: Effluent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			4.80		mg/L				NC	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-611162/23
Matrix: Water
Analysis Batch: 611162

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	7.1		SU		101	99 - 101		

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

GC/MS VOA

Analysis Batch: 611000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193922-1	Effluent	Total/NA	Water	624.1	
480-193922-2	Influent	Total/NA	Water	624.1	
480-193922-3	Trip Blank	Total/NA	Water	624.1	
MB 480-611000/8	Method Blank	Total/NA	Water	624.1	
LCS 480-611000/6	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 611005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193922-1	Effluent	Total Recoverable	Water	200.7	
480-193922-2	Influent	Total Recoverable	Water	200.7	
MB 480-611005/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-611005/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 611211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193922-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	611005
480-193922-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	611005
MB 480-611005/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	611005
LCS 480-611005/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	611005

General Chemistry

Analysis Batch: 611118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193922-1	Effluent	Total/NA	Water	SM 2540D	
480-193922-2	Influent	Total/NA	Water	SM 2540D	
MB 480-611118/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-611118/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-193922-1 DU	Effluent	Total/NA	Water	SM 2540D	

Analysis Batch: 611162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-193922-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-193922-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-611162/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Client Sample ID: Effluent
Lab Sample ID: 480-193922-1
Date Collected: 01/05/22 16:10
Matrix: Water
Date Received: 01/06/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	611000	01/06/22 17:38	ATG	TAL BUF
Total Recoverable	Prep	200.7			611005	01/07/22 09:21	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	611211	01/07/22 17:00	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	611118	01/07/22 12:56	EJL	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	611162	01/09/22 16:31	KEB	TAL BUF

Client Sample ID: Influent
Lab Sample ID: 480-193922-2
Date Collected: 01/05/22 16:30
Matrix: Water
Date Received: 01/06/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	611000	01/06/22 18:03	ATG	TAL BUF
Total Recoverable	Prep	200.7			611005	01/07/22 09:21	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	611211	01/07/22 17:04	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	611118	01/07/22 12:56	EJL	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	611162	01/09/22 16:34	KEB	TAL BUF

Client Sample ID: Trip Blank
Lab Sample ID: 480-193922-3
Date Collected: 01/05/22 00:00
Matrix: Water
Date Received: 01/06/22 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	611000	01/06/22 18:26	ATG	TAL BUF

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

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Laboratory: Eurofins 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
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-193922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-193922-1	Effluent	Water	01/05/22 16:10	01/06/22 13:00
480-193922-2	Influent	Water	01/05/22 16:30	01/06/22 13:00
480-193922-3	Trip Blank	Water	01/05/22 00:00	01/06/22 13:00

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: [signature]	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-168539-28522.1
Client Contact: Chad Moose	Phone: (716) 393-0870	E-Mail: Ryan.VanDette@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:	Analysis Requested		Job #:

Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:
City: Morrisville	TAT Requested (days): STD
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 10132351
Email: cmoose@wm.com	WO #:
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwat	Project #: 48002447
Site: New York	SSOW#:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	D	A	N	N	X	
Effluent	1/5/22	1610	G	Water	N	N	1	3	1	1		
Influent	1/5/22	1630	G	Water	N	N	1	3	1	1		
Trip Blank	1/5/22	-	-	Water	N	N		1				

480-193922 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/6/22 C	[signature]	[signature]	1-6-21 13:00	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.0 ICE

Ver: 06/08/2021

February 2022

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Emily Au Weather/Temperature: Overcast, 32 F
Date: 2/23/2022 Arrival Time: 10:00 Departure Time: 11:00

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See Notes/Explanations section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel.
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		None
Building Heater	X	Heater is on.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	
Iron Removal Filter	**NA**	As of June 2021, there is no longer an iron removal filter tank.
Flow Meters	**X**	See Notes/Explanations section.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	Pump is currently down
EW-1 Transducer	**X**	
EW-1 Flow Meter		EW-1 flow meter/totalizer screen no longer functioning.
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	300 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	1 GPM (see Notes section)
Water Level Above Transducer	193 Inches
Flow Meter Reading	28,537,930 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	224 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	34 Inches H2O

Effluent Flow

Total System Meter Reading	72,843,287 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Total system flow was timed at 4.5 gpm on system totalizer flow meter. During the visit, EW-2, and EW-3 influent valves were individually closed to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-2 and EW-3. EW-1 is currently down.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (4Q2021) was collected on December 9, 2021.

The air stripper trays were last mechanically cleaned on December 1, 2021.

The monthly samples were collected today, February 23, 2022, by AECOM.

Table 1
February 23, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	3,749	3,749	144,000	gpd	NA	NA	NA
pH	7.0	8.1	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	1,800	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	699	436	3,000	ug/L	0.01	3.61	lbs/day
TSS	< 4.0	< 4.0	20	mg/L	< 0.13		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured January 5, 2022 through February 23, 2022.*

Table 2
February 23, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 2/23/2022	units	Prior Report 1/5/2022
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	300	Inches	294
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	1	GPM	0
Water Level Above Transducer	193	Inches	186
Flow Meter Reading	28,537,930	gallons	28,528,922
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	224	Inches	205
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	34.0	inches H_2O	19.5
Effluent Flow			
Total System Meter Reading	72,843,287	gallons	72,663,348
Average System Flow Since Prior Report	3,749	gpd	
	156.2	gph	
	2.6	gpm	
Influent o-Chlorotoluene concentration	1,800	ug/L	
Current month mass removal	1.2	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-195265-1
Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
3/3/2022 3:22:36 PM
Joshua Velez, Project Management Assistant I
joshua.velez@eurofinset.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Job ID: 480-195265-1

Job ID: 480-195265-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-195265-1

Comments
No additional comments.

Receipt
The samples were received on 2/23/2022 11:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 6.2º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-195265-2). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Methods 9040C, SM 4500 H+ B: 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: Effluent (480-195265-1) and Influent (480-195265-2).

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

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Client Sample ID: Effluent — Lab Sample ID: 480-195265-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	436		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	8.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.7	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-195265-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1800		13		ug/L	40		624.1	Total/NA
Iron	699		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.0	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	20.1	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank - 022322 — Lab Sample ID: 480-195265-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Client Sample ID: Effluent

Date Collected: 02/23/22 09:50
Date Received: 02/23/22 11:30

Lab Sample ID: 480-195265-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			02/23/22 16:50	1
1,1-Dichloroethane	ND		5.0		ug/L			02/23/22 16:50	1
1,1-Dichloroethene	ND		5.0		ug/L			02/23/22 16:50	1
Benzene	ND		5.0		ug/L			02/23/22 16:50	1
Chlorobenzene	ND		5.0		ug/L			02/23/22 16:50	1
Chloroethane	ND		5.0		ug/L			02/23/22 16:50	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/23/22 16:50	1
Toluene	ND		5.0		ug/L			02/23/22 16:50	1
Trichloroethene	ND		5.0		ug/L			02/23/22 16:50	1
o-Chlorotoluene	ND		5.0		ug/L			02/23/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*02/23/22 16:50*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*02/23/22 16:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*02/23/22 16:50*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/23/22 16:50*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**436**		50.0		ug/L		02/25/22 09:19	02/25/22 23:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			02/26/22 17:52	1
pH	**8.1**	**HF**	0.1		SU			02/24/22 14:27	1
Temperature	**19.7**	**HF**	0.001		Degrees C			02/24/22 14:27	1

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Client Sample ID: Influent

Date Collected: 02/23/22 10:10
Date Received: 02/23/22 11:30

Lab Sample ID: 480-195265-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			02/23/22 17:13	40
1,1-Dichloroethane	ND		24		ug/L			02/23/22 17:13	40
1,1-Dichloroethene	ND		34		ug/L			02/23/22 17:13	40
Benzene	ND		24		ug/L			02/23/22 17:13	40
Chlorobenzene	ND		19		ug/L			02/23/22 17:13	40
Chloroethane	ND		35		ug/L			02/23/22 17:13	40
cis-1,2-Dichloroethene	ND		23		ug/L			02/23/22 17:13	40
Toluene	ND		18		ug/L			02/23/22 17:13	40
Trichloroethene	ND		24		ug/L			02/23/22 17:13	40
o-Chlorotoluene	**1800**		13		ug/L			02/23/22 17:13	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*02/23/22 17:13*	*40*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*02/23/22 17:13*	*40*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*02/23/22 17:13*	*40*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/23/22 17:13*	*40*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**699**		50.0		ug/L		02/25/22 09:19	02/25/22 23:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			02/26/22 17:52	1
pH	**7.0**	**HF**	0.1		SU			02/24/22 14:28	1
Temperature	**20.1**	**HF**	0.001		Degrees C			02/24/22 14:28	1

Client Sample Results

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Client Sample ID: Trip Blank - 022322

Date Collected: 02/23/22 00:00
Date Received: 02/23/22 11:30

Lab Sample ID: 480-195265-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			02/23/22 17:36	1
1,1-Dichloroethane	ND		5.0		ug/L			02/23/22 17:36	1
1,1-Dichloroethene	ND		5.0		ug/L			02/23/22 17:36	1
Benzene	ND		5.0		ug/L			02/23/22 17:36	1
Chlorobenzene	ND		5.0		ug/L			02/23/22 17:36	1
Chloroethane	ND		5.0		ug/L			02/23/22 17:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/23/22 17:36	1
Toluene	ND		5.0		ug/L			02/23/22 17:36	1
Trichloroethene	ND		5.0		ug/L			02/23/22 17:36	1
o-Chlorotoluene	ND		5.0		ug/L			02/23/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*02/23/22 17:36*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*02/23/22 17:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*02/23/22 17:36*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/23/22 17:36*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-615781/8
Matrix: Water
Analysis Batch: 615781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			02/23/22 12:24	1
1,1-Dichloroethane	ND		5.0		ug/L			02/23/22 12:24	1
1,1-Dichloroethene	ND		5.0		ug/L			02/23/22 12:24	1
Benzene	ND		5.0		ug/L			02/23/22 12:24	1
Chlorobenzene	ND		5.0		ug/L			02/23/22 12:24	1
Chloroethane	ND		5.0		ug/L			02/23/22 12:24	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/23/22 12:24	1
Toluene	ND		5.0		ug/L			02/23/22 12:24	1
Trichloroethene	ND		5.0		ug/L			02/23/22 12:24	1
o-Chlorotoluene	ND		5.0		ug/L			02/23/22 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*02/23/22 12:24*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/23/22 12:24*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*02/23/22 12:24*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*02/23/22 12:24*	*1*

Lab Sample ID: LCS 480-615781/6
Matrix: Water
Analysis Batch: 615781

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	52 - 162
1,1-Dichloroethane	20.0	18.8		ug/L		94	59 - 155
1,1-Dichloroethene	20.0	17.0		ug/L		85	1 - 234
Benzene	20.0	18.8		ug/L		94	37 - 151
Chlorobenzene	20.0	19.3		ug/L		96	37 - 160
Chloroethane	20.0	19.7		ug/L		98	14 - 230
Toluene	20.0	19.1		ug/L		96	47 - 150
Trichloroethene	20.0	17.6		ug/L		88	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
Dibromofluoromethane (Surr)	*105*		*75 - 123*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*102*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-615984/1-A
Matrix: Water
Analysis Batch: 616247

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 615984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		02/25/22 09:19	02/25/22 21:29	1

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

Lab Sample ID: LCS 480-615984/2-A
Matrix: Water
Analysis Batch: 616247

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 615984

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10000	10240		ug/L		102	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-616182/1
Matrix: Water
Analysis Batch: 616182

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			02/26/22 17:52	1

Lab Sample ID: LCS 480-616182/2
Matrix: Water
Analysis Batch: 616182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	5330	5310		mg/L		100	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-616012/21
Matrix: Water
Analysis Batch: 616012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

GC/MS VOA

Analysis Batch: 615781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195265-1	Effluent	Total/NA	Water	624.1	
480-195265-2	Influent	Total/NA	Water	624.1	
480-195265-3	Trip Blank - 022322	Total/NA	Water	624.1	
MB 480-615781/8	Method Blank	Total/NA	Water	624.1	
LCS 480-615781/6	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 615984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195265-1	Effluent	Total Recoverable	Water	200.7	
480-195265-2	Influent	Total Recoverable	Water	200.7	
MB 480-615984/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-615984/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 616247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195265-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	615984
480-195265-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	615984
MB 480-615984/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	615984
LCS 480-615984/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	615984

General Chemistry

Analysis Batch: 616012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195265-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-195265-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-616012/21	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 616182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195265-1	Effluent	Total/NA	Water	SM 2540D	
480-195265-2	Influent	Total/NA	Water	SM 2540D	
MB 480-616182/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-616182/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Client Sample ID: Effluent
Lab Sample ID: 480-195265-1
Date Collected: 02/23/22 09:50
Matrix: Water
Date Received: 02/23/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	615781	02/23/22 16:50	ATG	TAL BUF
Total Recoverable	Prep	200.7			615984	02/25/22 09:19	NBS	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	616247	02/25/22 23:08	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	616182	02/26/22 17:52	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	616012	02/24/22 14:27	PRD	TAL BUF

Client Sample ID: Influent
Lab Sample ID: 480-195265-2
Date Collected: 02/23/22 10:10
Matrix: Water
Date Received: 02/23/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	615781	02/23/22 17:13	ATG	TAL BUF
Total Recoverable	Prep	200.7			615984	02/25/22 09:19	NBS	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	616247	02/25/22 23:12	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	616182	02/26/22 17:52	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	616012	02/24/22 14:28	PRD	TAL BUF

Client Sample ID: Trip Blank - 022322
Lab Sample ID: 480-195265-3
Date Collected: 02/23/22 00:00
Matrix: Water
Date Received: 02/23/22 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	615781	02/23/22 17:36	ATG	TAL BUF

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

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-195265-1
Project/Site: ChemTrol Site - Monthly

Laboratory: Eurofins 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
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-195265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195265-1	Effluent	Water	02/23/22 09:50	02/23/22 11:30
480-195265-2	Influent	Water	02/23/22 10:10	02/23/22 11:30
480-195265-3	Trip Blank - 022322	Water	02/23/22 00:00	02/23/22 11:30

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Emily Av	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-169543-28522.1
Client Contact: Chad Moose	Phone: 716-531-3312	E-Mail: Ryan.VanDette@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:			
City: Morrisville	TAT Requested (days): STD.			
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 10132351			
Email: cmoose@wm.com	WO #:			
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	2/23/22	950	G	Water	N	N	1	3	1	1		
Influent	2/23/22	1010	G	Water	N	N	1	3	1	1		
Trip Blank - 022322	2/23/22	-	TRIP	Water	N	N		1				

480-195265 Chain of Custody

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:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Emily Av	2/23/22 1130	AECOM			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 2/23/22 1630	Company TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.2 IR ICE

Ver: 06/08/2021

March 2022

Operation, Maintenance & Monitoring Checklist

Groundwater Treatment System
CHEM-TROL Site
Town of Hamburg, New York

This summary inspection checklist is to be completed during each site inspection. Note all items, which require repair or maintenance. Use the last page to note any additional comments or unusual events.

General

Service by: Emily Au Weather/Temperature: Overcast, 32 F
Date: 3/24/2022 Arrival Time: 9:30 Departure Time: 11:00

Reason for Service: Inspect system and perform monthly sampling

Inspection Items:	OK:	Comments:
Site Appearance/Condition	X	See Notes/Explanations section.
Building Exterior		
Overhead Door	X	Wood lintel decaying, header exposed.
Siding	X	Metal trim missing from lintel.
Roof and Discharge Pipe	X	
Building Interior		
Indication of Spills or Leaks		None
Building Heater	X	Heater is on.
Phone System	X	Disconnected
Exhaust Fan		Could not get fan to work.
Fire Extinguisher	X	
First Aid & Eye Wash	X	

Groundwater Treatment System

Air Stripper	**X**	
Iron Removal Filter	**NA**	As of June 2021, there is no longer an iron removal filter tank.
Flow Meters	**X**	See Notes/Explanations section.
Gauges	**X**	
Stripper Blower	**X**	
Indication of Alarm	**X**	

Groundwater Treatment Wells

EW-1 Pump	**X**	Pump is currently down
EW-1 Transducer	**X**	
EW-1 Flow Meter		EW-1 flow meter/totalizer screen no longer functioning.
EW-2 Pump	**X**	
EW-2 Transducer	**X**	
EW- 2 Flow Meter	**X**	
EW-3 Pump	**X**	
EW-3 Transducer	**X**	
EW-3 Flow Meter	**X**	

Effluent Discharge

Outfall	**X**	
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	296 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	189 Inches
Flow Meter Reading	28,538,117 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	214 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	15 Inches H2O

Effluent Flow

Total System Meter Reading	72,999,200 Gallons

Influent/Effluent Sampling

AQUEOUS:
Monthly monitoring samples of aqueous phase system influent and effluent were collected and submitted for the following analyses:

- VOCs by EPA Method 624 (CFR136 624)
- Iron by MCAWW 200.7
- TSS by MCAWW SM18-20 2540 D
- pH by MCAWW SM18-20 4500-H+B

pH measurements must be made in the field:

Influent pH 7.0 (field test strip)
Effluent pH 7.0 (field test strip)

Notes/Explanations
(Please include any additional information on those items that require attention as indicated above.)

The system was on upon arrival.

Total system flow was timed at 4.5 gpm on system totalizer flow meter. During the visit, EW-2, and EW-3 influent valves were individually closed to test flow by reading response on transducer elevation; noted rise in transducer elevation when valve was closed and drop when valve was opened confirming well was pumping for EW-2 and EW-3. EW-1 is currently down.

The SVE building overhead door flashing has wind and header damage.

The AS building overhead door flashing needs replacement.

The most recent round of water levels (1Q2022) was collected on March 15, 2022.

The air stripper trays were last mechanically cleaned on March 17, 2022.

The monthly samples were collected today, March 24, 2022, by AECOM.

Table 1
March 24, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Parameters	Concentration				Mass Loading		
	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow*	5,029	5,029	144,000	gpd	NA	NA	NA
pH	6.9	7.7	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0002	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethane	30	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
o-Chlorotoluene	2,500	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	1,160	729	3,000	ug/L	0.03	3.61	lbs/day
TSS	< 4.0	< 4.0	20	mg/L	< 0.17		lbs/day

Notes:

*1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.*

2) < indicates Not Detected at or above the laboratory reporting limit.

3) NA indicates Not Applicable.

4) "J" indicates an estimated concentration below the method detection limit.

5) E - Estimated Value, result above calibration curve

6) D - Dilution

7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.

** Average daily flow as measured February 23, 2022 through March 24, 2022.*

Table 2
March 24, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 3/24/2022	units	Prior Report 2/23/2022
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	296	Inches	300
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	1	GPM	1
Water Level Above Transducer	189	Inches	193
Flow Meter Reading	28,538,117	gallons	28,537,930
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	214	Inches	224
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	15.0	inches H_2O	34.0
Effluent Flow			
Total System Meter Reading	72,999,200	gallons	72,843,287
Average System Flow Since Prior Report	5,029	gpd	
	209.6	gph	
	3.5	gpm	
Influent o-Chlorotoluene concentration	2,500	ug/L	
Current month mass removal	1.5	kilograms	

Note: NA indicates Not Available.
NW - Not working
ug/L - micrograms per liter

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-196080-1
Client Project/Site: ChemTrol Site - Monthly
Sampling Event: ChemTrol Monthly Groundwater

For:
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Authorized for release by:
4/7/2022 5:20:59 PM
Joshua Velez, Project Management Assistant I
Joshua.Velez@et.eurofinsus.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
Ryan.VanDette@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Job ID: 480-196080-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-196080-1

Comments
No additional comments.

Receipt
The samples were received on 3/24/2022 12:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-196080-2), (480-196080-D-2 MS) and (480-196080-D-2 MSD). Elevated reporting limits (RLs) are provided.

Method 624.1: Due to the high concentration of 2-Chlorotoluene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-619017 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 624.1: The results reported for the following sample do not concur with results previously reported for this site: Influent (480-196080-2). 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.

Metals
Method 200.7 Rev 4.4: The method blank for preparation batch 480-619142 and analytical batch 480-620199 contained Total Iron above the reporting limit (RL). Associated sample Influent (480-196080-2) was not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry
Methods 9040B, 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: Effluent (480-196080-1) and Influent (480-196080-2).

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

Detection Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Client Sample ID: Effluent — Lab Sample ID: 480-196080-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	729		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.7	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	20.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-196080-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	30		24		ug/L	40		624.1	Total/NA
o-Chlorotoluene	2500	F1	13		ug/L	40		624.1	Total/NA
Iron	1160		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	6.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.4	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-196080-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Client Sample ID: Effluent

Date Collected: 03/24/22 10:00
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-1

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			03/25/22 00:18	1
1,1-Dichloroethane	ND		5.0		ug/L			03/25/22 00:18	1
1,1-Dichloroethene	ND		5.0		ug/L			03/25/22 00:18	1
Benzene	ND		5.0		ug/L			03/25/22 00:18	1
Chlorobenzene	ND		5.0		ug/L			03/25/22 00:18	1
Chloroethane	ND		5.0		ug/L			03/25/22 00:18	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/25/22 00:18	1
Toluene	ND		5.0		ug/L			03/25/22 00:18	1
Trichloroethene	ND		5.0		ug/L			03/25/22 00:18	1
o-Chlorotoluene	ND		5.0		ug/L			03/25/22 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*03/25/22 00:18*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/25/22 00:18*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*03/25/22 00:18*	*1*
Toluene-d8 (Surr)	*101*		*77 - 120*		*03/25/22 00:18*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**729**		50.0		ug/L		04/06/22 09:28	04/06/22 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			03/30/22 10:27	1
pH	**7.7**	**HF**	0.1		SU			03/29/22 14:00	1
Temperature	**20.0**	**HF**	0.001		Degrees C			03/29/22 14:00	1

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Client Sample ID: Influent

Date Collected: 03/24/22 10:15
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-2

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			03/25/22 00:41	40
1,1-Dichloroethane	**30**		24		ug/L			03/25/22 00:41	40
1,1-Dichloroethene	ND		34		ug/L			03/25/22 00:41	40
Benzene	ND		24		ug/L			03/25/22 00:41	40
Chlorobenzene	ND		19		ug/L			03/25/22 00:41	40
Chloroethane	ND		35		ug/L			03/25/22 00:41	40
cis-1,2-Dichloroethene	ND		23		ug/L			03/25/22 00:41	40
Toluene	ND		18		ug/L			03/25/22 00:41	40
Trichloroethene	ND		24		ug/L			03/25/22 00:41	40
o-Chlorotoluene	**2500**	**F1**	13		ug/L			03/25/22 00:41	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*03/25/22 00:41*	*40*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*03/25/22 00:41*	*40*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*03/25/22 00:41*	*40*
Toluene-d8 (Surr)	*101*		*77 - 120*		*03/25/22 00:41*	*40*

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1160**		50.0		ug/L		03/30/22 09:42	04/02/22 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			03/30/22 10:27	1
pH	**6.9**	**HF**	0.1		SU			03/29/22 14:01	1
Temperature	**19.4**	**HF**	0.001		Degrees C			03/29/22 14:01	1

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Client Sample ID: Trip Blank

Date Collected: 03/24/22 00:00
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-3

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			03/25/22 01:05	1
1,1-Dichloroethane	ND		5.0		ug/L			03/25/22 01:05	1
1,1-Dichloroethene	ND		5.0		ug/L			03/25/22 01:05	1
Benzene	ND		5.0		ug/L			03/25/22 01:05	1
Chlorobenzene	ND		5.0		ug/L			03/25/22 01:05	1
Chloroethane	ND		5.0		ug/L			03/25/22 01:05	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/25/22 01:05	1
Toluene	ND		5.0		ug/L			03/25/22 01:05	1
Trichloroethene	ND		5.0		ug/L			03/25/22 01:05	1
o-Chlorotoluene	ND		5.0		ug/L			03/25/22 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*03/25/22 01:05*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*03/25/22 01:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*03/25/22 01:05*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*03/25/22 01:05*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-619017/8
Matrix: Water
Analysis Batch: 619017

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			03/24/22 17:45	1
1,1-Dichloroethane	ND		5.0		ug/L			03/24/22 17:45	1
1,1-Dichloroethene	ND		5.0		ug/L			03/24/22 17:45	1
Benzene	ND		5.0		ug/L			03/24/22 17:45	1
Chlorobenzene	ND		5.0		ug/L			03/24/22 17:45	1
Chloroethane	ND		5.0		ug/L			03/24/22 17:45	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/24/22 17:45	1
Toluene	ND		5.0		ug/L			03/24/22 17:45	1
Trichloroethene	ND		5.0		ug/L			03/24/22 17:45	1
o-Chlorotoluene	ND		5.0		ug/L			03/24/22 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*03/24/22 17:45*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*03/24/22 17:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*03/24/22 17:45*	*1*
Toluene-d8 (Surr)	*100*		*77 - 120*		*03/24/22 17:45*	*1*

Lab Sample ID: LCS 480-619017/6
Matrix: Water
Analysis Batch: 619017

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	22.5		ug/L		113	52 - 162
1,1-Dichloroethane	20.0	21.6		ug/L		108	59 - 155
1,1-Dichloroethene	20.0	22.1		ug/L		111	1 - 234
Benzene	20.0	21.3		ug/L		106	37 - 151
Chlorobenzene	20.0	21.1		ug/L		106	37 - 160
Chloroethane	20.0	23.1		ug/L		115	14 - 230
Toluene	20.0	21.2		ug/L		106	47 - 150
Trichloroethene	20.0	20.7		ug/L		103	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 130*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*100*		*77 - 120*

Lab Sample ID: 480-196080-2 MS
Matrix: Water
Analysis Batch: 619017

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND		800	752		ug/L		94	52 - 162
1,1-Dichloroethane	30		800	898		ug/L		109	59 - 155
1,1-Dichloroethene	ND		800	885		ug/L		111	1 - 234
Benzene	ND		800	856		ug/L		107	37 - 151
Chlorobenzene	ND		800	863		ug/L		108	37 - 160
Chloroethane	ND		800	935		ug/L		117	14 - 230

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-196080-2 MS
Matrix: Water
Analysis Batch: 619017

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	ND		800	866		ug/L		108	47 - 150
Trichloroethene	ND		800	821		ug/L		103	71 - 157

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*

Lab Sample ID: 480-196080-2 MSD
Matrix: Water
Analysis Batch: 619017

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		800	767		ug/L		96	52 - 162	2	15
1,1-Dichloroethane	30		800	903		ug/L		109	59 - 155	1	15
1,1-Dichloroethene	ND		800	919		ug/L		115	1 - 234	4	15
Benzene	ND		800	878		ug/L		110	37 - 151	3	15
Chlorobenzene	ND		800	871		ug/L		109	37 - 160	1	15
Chloroethane	ND		800	908		ug/L		113	14 - 230	3	15
Toluene	ND		800	881		ug/L		110	47 - 150	2	15
Trichloroethene	ND		800	858		ug/L		107	71 - 157	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*
Toluene-d8 (Surr)	*101*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-619142/1-A
Matrix: Water
Analysis Batch: 620199

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 619142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	81.73		50.0		ug/L		03/30/22 09:42	04/02/22 16:32	1

Lab Sample ID: LCS 480-619142/2-A
Matrix: Water
Analysis Batch: 620199

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 619142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	10000	10450		ug/L		104	85 - 115

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

Lab Sample ID: MB 480-620536/1-A
Matrix: Water
Analysis Batch: 620756

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 620536

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		04/06/22 09:28	04/06/22 18:07	1

Lab Sample ID: LCS 480-620536/2-A
Matrix: Water
Analysis Batch: 620756

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 620536

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			10000	9745		ug/L		97	85 - 115		

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-619690/1
Matrix: Water
Analysis Batch: 619690

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			03/30/22 10:27	1

Lab Sample ID: LCS 480-619690/2
Matrix: Water
Analysis Batch: 619690

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			490	484.4		mg/L		99	88 - 110		

Lab Sample ID: 480-196080-2 DU
Matrix: Water
Analysis Batch: 619690

Client Sample ID: Influent
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	ND			ND		mg/L				NC	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-619589/23
Matrix: Water
Analysis Batch: 619589

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

QC Association Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

GC/MS VOA

Analysis Batch: 619017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-1	Effluent	Total/NA	Water	624.1	
480-196080-2	Influent	Total/NA	Water	624.1	
480-196080-3	Trip Blank	Total/NA	Water	624.1	
MB 480-619017/8	Method Blank	Total/NA	Water	624.1	
LCS 480-619017/6	Lab Control Sample	Total/NA	Water	624.1	
480-196080-2 MS	Influent	Total/NA	Water	624.1	
480-196080-2 MSD	Influent	Total/NA	Water	624.1	

Metals

Prep Batch: 619142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-2	Influent	Total Recoverable	Water	200.7	
MB 480-619142/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-619142/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 620199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	619142
MB 480-619142/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	619142
LCS 480-619142/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	619142

Prep Batch: 620536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-1	Effluent	Total Recoverable	Water	200.7	
MB 480-620536/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-620536/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 620756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	620536
MB 480-620536/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	620536
LCS 480-620536/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	620536

General Chemistry

Analysis Batch: 619589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-196080-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-619589/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 619690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196080-1	Effluent	Total/NA	Water	SM 2540D	
480-196080-2	Influent	Total/NA	Water	SM 2540D	
MB 480-619690/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-619690/2	Lab Control Sample	Total/NA	Water	SM 2540D	
480-196080-2 DU	Influent	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Client Sample ID: Effluent
Date Collected: 03/24/22 10:00
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	619017	03/25/22 00:18	ATG	TAL BUF
Total Recoverable	Prep	200.7			620536	04/06/22 09:28	NBS	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	620756	04/06/22 17:52	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	619690	03/30/22 10:27	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	619589	03/29/22 14:00	KEB	TAL BUF

Client Sample ID: Influent
Date Collected: 03/24/22 10:15
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	619017	03/25/22 00:41	ATG	TAL BUF
Total Recoverable	Prep	200.7			619142	03/30/22 09:42	NBS	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	620199	04/02/22 17:58	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	619690	03/30/22 10:27	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	619589	03/29/22 14:01	KEB	TAL BUF

Client Sample ID: Trip Blank
Date Collected: 03/24/22 00:00
Date Received: 03/24/22 12:10

Lab Sample ID: 480-196080-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	619017	03/25/22 01:05	ATG	TAL BUF

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

Accreditation/Certification Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

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
624.1		Water	o-Chlorotoluene
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Recoverable Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: Waste Management
Project/Site: ChemTrol Site - Monthly

Job ID: 480-196080-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196080-1	Effluent	Water	03/24/22 10:00	03/24/22 12:10
480-196080-2	Influent	Water	03/24/22 10:15	03/24/22 12:10
480-196080-3	Trip Blank	Water	03/24/22 00:00	03/24/22 12:10

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Emily Au	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-170380-28522.1
Client Contact: Chad Moose	Phone: 716-531-3312	E-Mail: Ryan.VanDette@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #:
Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:			
City: Morrisville	TAT Requested (days): Standard			
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 10132351			
Email: cmoose@wm.com	WO #:			
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	3/24/22	1000	G	Water	N	N	3	3	1	1		1 iron (1)
Influent	3/24/22	1015	G	Water	N	N	3	3	1	1		1 iron (2)
Trip Blank	3/24/22	—	TRIP	Water	N	N		1				

480-196080 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are ...
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 3/24/22 1210	Company: AECOM	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/24/22 1210	Company TAL	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.9 ICE

Ver: 06/08/2021

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