AECOM Environment

Fourth Quarter 2022 – October, November, December Operation, Maintenance, and Monitoring Report

CHEM-TROL Site
NYSDEC Site No. 9-15-015
Report.hw915015.2023-02-07.4Q2022OMM

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

Submitted to:
NYSDEC
Region 9 Office
700 Delaware Avenue
Buffalo, NY 14209

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

February 7, 2023

AECOM Project No. 60652207.3

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

716 856 5636 tel
www.aecom.com

February 7, 2023

SUBMITTED VIA ELECTRONIC MAIL

Mr. Glenn May, PG
NYSDEC
Region 9 Office
700 Delaware Avenue
Buffalo, NY 14209

RE: S.C. Holdings, Inc., 4818 Lake Avenue, Blasdell, New York 14219
Fourth Quarter 2022 Operation, Maintenance, and Monitoring Report
Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2023-02-07.4Q2022OMM

Dear Mr. May:

Enclosed please find the Fourth Quarter 2022 (4Q22 – October, November, December) 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 4Q22:

- 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 4Q22 is as follows:

October 2022

AECOM collected the monthly monitoring samples on October 11, 2022; analytical data were received on October 19, 2022. As presented on Table 1 (October 11, 2022), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On October 21, 2022 Matrix Environmental installed a new pump in EW-1 and adjusted the pumping flow for the system.

November 2022

AECOM collected the monthly monitoring samples on November 15, 2022; analytical data were received on November 30, 2022. As presented on Table 1 (November 15, 2022), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

December 2022

AECOM collected the monthly monitoring samples on December 14, 2022; analytical data were received on December 22, 2022. As presented on Table 1 (December 14, 2022), there were no

exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On December 14, 2022, AECOM performed pressure washing and mechanical cleaning of the air stripper trays.

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

October 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: Sunny, 68 F
Date: 10/11/2022 Arrival Time: 1450 Departure Time: 1635

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		Slight leak from air stripper "door"
Building Heater	X	Turned heater off
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**	Flowing slowly
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	270 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	162 Inches
Flow Meter Reading	28,538,538 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	174 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	32 Inches H2O

Effluent Flow

Total System Meter Reading	73,529,731 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 at arrival.

Total system flow was timed at 2.0 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 (2Q2022) was collected on June 21, 2022.

The air stripper trays were last mechanically cleaned on September 15, 2022.

The monthly samples were collected today, October 11, 2022, by AECOM.

The annual grass mowing has been completed since the last monthly sampling.

The flow through the system has been below typical rates for this time of year. AECOM called subcontractor Matrix Environmental to schedule a site visit and review level settings. AECOM reviewing weather trends for below average precipitation.

Table 1
October 11, 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*	2,450	2,450	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	< 0.0001	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	3,200	< 5.0	10	ug/L	< 0.0001	0.012	lbs/day
Iron - Total	521	260	3,000	ug/L	0.01	3.61	lbs/day
TSS	< 4.0	5.2	20	mg/L	0.11		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 September 12, 2022 through October 11, 2022.*

Table 2
October 11, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 10/11/2022	units	Prior Report 9/12/2022
EW-1			
Pumping Rate	0	GPM	0
Water Level Above Transducer	270	Inches	274
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	162	Inches	179
Flow Meter Reading	28,538,538	gallons	28,538,192
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	174	Inches	197
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	32.0	inches H_2O	15.5
Effluent Flow			
Total System Meter Reading	73,529,731	gallons	73,458,671
Average System Flow Since Prior Report	2,450	gpd	
	102.1	gph	
	1.7	gpm	
Influent o-Chlorotoluene concentration	3,200	ug/L	
Current month mass removal	0.9	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: 480-202585-1
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:
10/19/2022 2:46:15 PM
Katelyn Ferguson, Project Manager I
katelyn.ferguson@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: 480-202585-1

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: 480-202585-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-202585-1

Comments
No additional comments.

Receipt
The samples were received on 10/12/2022 8:00 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 3.5º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-202585-2). 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 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 (480-202585-1) and Influent (480-202585-2).

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: 480-202585-1

Client Sample ID: Effluent — Lab Sample ID: 480-202585-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	260		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	5.2		4.0		mg/L	1		SM 2540D	Total/NA
pH	8.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	17.3	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-202585-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	3200		13		ug/L	40		624.1	Total/NA
Iron	521		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	16.6	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-202585-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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

Job ID: 480-202585-1

Client Sample ID: Effluent

Date Collected: 10/11/22 15:10
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-1

Matrix: Water

Method: 40CFR136A 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			10/12/22 17:06	1
1,1-Dichloroethane	ND		5.0		ug/L			10/12/22 17:06	1
1,1-Dichloroethene	ND		5.0		ug/L			10/12/22 17:06	1
Benzene	ND		5.0		ug/L			10/12/22 17:06	1
Chlorobenzene	ND		5.0		ug/L			10/12/22 17:06	1
Chloroethane	ND		5.0		ug/L			10/12/22 17:06	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/12/22 17:06	1
Toluene	ND		5.0		ug/L			10/12/22 17:06	1
Trichloroethene	ND		5.0		ug/L			10/12/22 17:06	1
o-Chlorotoluene	ND		5.0		ug/L			10/12/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*10/12/22 17:06*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/12/22 17:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/12/22 17:06*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*10/12/22 17:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**260**		50.0		ug/L		10/14/22 09:25	10/14/22 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	**5.2**		4.0		mg/L			10/17/22 17:46	1
pH (SM 4500 H+ B)	**8.1**	**HF**	0.1		SU			10/18/22 15:57	1
Temperature (SM 4500 H+ B)	**17.3**	**HF**	0.001		Degrees C			10/18/22 15:57	1

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

Job ID: 480-202585-1

Client Sample ID: Influent

Date Collected: 10/11/22 15:30
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-2

Matrix: Water

Method: 40CFR136A 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			10/12/22 17:30	40
1,1-Dichloroethane	ND		24		ug/L			10/12/22 17:30	40
1,1-Dichloroethene	ND		34		ug/L			10/12/22 17:30	40
Benzene	ND		24		ug/L			10/12/22 17:30	40
Chlorobenzene	ND		19		ug/L			10/12/22 17:30	40
Chloroethane	ND		35		ug/L			10/12/22 17:30	40
cis-1,2-Dichloroethene	ND		23		ug/L			10/12/22 17:30	40
Toluene	ND		18		ug/L			10/12/22 17:30	40
Trichloroethene	ND		24		ug/L			10/12/22 17:30	40
o-Chlorotoluene	**3200**		13		ug/L			10/12/22 17:30	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 130*		*10/12/22 17:30*	*40*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*10/12/22 17:30*	*40*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/12/22 17:30*	*40*
Toluene-d8 (Surr)	*97*		*77 - 120*		*10/12/22 17:30*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**521**		50.0		ug/L		10/14/22 09:25	10/14/22 23:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			10/17/22 17:46	1
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1		SU			10/18/22 15:57	1
Temperature (SM 4500 H+ B)	**16.6**	**HF**	0.001		Degrees C			10/18/22 15:57	1

Client Sample Results

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

Job ID: 480-202585-1

Client Sample ID: Trip Blank

Date Collected: 10/11/22 00:00
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-3

Matrix: Water

Method: 40CFR136A 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			10/12/22 17:54	1
1,1-Dichloroethane	ND		5.0		ug/L			10/12/22 17:54	1
1,1-Dichloroethene	ND		5.0		ug/L			10/12/22 17:54	1
Benzene	ND		5.0		ug/L			10/12/22 17:54	1
Chlorobenzene	ND		5.0		ug/L			10/12/22 17:54	1
Chloroethane	ND		5.0		ug/L			10/12/22 17:54	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/12/22 17:54	1
Toluene	ND		5.0		ug/L			10/12/22 17:54	1
Trichloroethene	ND		5.0		ug/L			10/12/22 17:54	1
o-Chlorotoluene	ND		5.0		ug/L			10/12/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 130*		*10/12/22 17:54*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*10/12/22 17:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/12/22 17:54*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*10/12/22 17:54*	*1*

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

Lab Sample ID: MB 480-645044/8
Matrix: Water
Analysis Batch: 645044

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			10/12/22 12:56	1
1,1-Dichloroethane	ND		5.0		ug/L			10/12/22 12:56	1
1,1-Dichloroethene	ND		5.0		ug/L			10/12/22 12:56	1
Benzene	ND		5.0		ug/L			10/12/22 12:56	1
Chlorobenzene	ND		5.0		ug/L			10/12/22 12:56	1
Chloroethane	ND		5.0		ug/L			10/12/22 12:56	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/12/22 12:56	1
Toluene	ND		5.0		ug/L			10/12/22 12:56	1
Trichloroethene	ND		5.0		ug/L			10/12/22 12:56	1
o-Chlorotoluene	ND		5.0		ug/L			10/12/22 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*10/12/22 12:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*10/12/22 12:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*10/12/22 12:56*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*10/12/22 12:56*	*1*

Lab Sample ID: LCS 480-645044/6
Matrix: Water
Analysis Batch: 645044

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	17.9		ug/L		90	52 - 162
1,1-Dichloroethane	20.0	17.9		ug/L		90	59 - 155
1,1-Dichloroethene	20.0	17.6		ug/L		88	1 - 234
Benzene	20.0	17.5		ug/L		88	37 - 151
Chlorobenzene	20.0	17.5		ug/L		87	37 - 160
Chloroethane	20.0	21.8		ug/L		109	14 - 230
Toluene	20.0	17.4		ug/L		87	47 - 150
Trichloroethene	20.0	17.7		ug/L		89	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*68 - 130*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*98*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-645362/1-A
Matrix: Water
Analysis Batch: 645695

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		10/14/22 09:25	10/14/22 22:51	1

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

Lab Sample ID: LCS 480-645362/2-A
Matrix: Water
Analysis Batch: 645695

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			10000	10260		ug/L		102	85 - 115		

Lab Sample ID: 480-202585-1 MS
Matrix: Water
Analysis Batch: 645695

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 645362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron	260		10000	10270		ug/L		100	70 - 130		

Lab Sample ID: 480-202585-1 MSD
Matrix: Water
Analysis Batch: 645695

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 645362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	260		10000	10400		ug/L		101	70 - 130	1	20

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

Lab Sample ID: MB 480-645923/1
Matrix: Water
Analysis Batch: 645923

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			10/17/22 17:46	1

Lab Sample ID: LCS 480-645923/2
Matrix: Water
Analysis Batch: 645923

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			401	381.2		mg/L		95	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-646071/1
Matrix: Water
Analysis Batch: 646071

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: 480-202585-1

GC/MS VOA

Analysis Batch: 645044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202585-1	Effluent	Total/NA	Water	624.1	
480-202585-2	Influent	Total/NA	Water	624.1	
480-202585-3	Trip Blank	Total/NA	Water	624.1	
MB 480-645044/8	Method Blank	Total/NA	Water	624.1	
LCS 480-645044/6	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 645362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202585-1	Effluent	Total Recoverable	Water	200.7	
480-202585-2	Influent	Total Recoverable	Water	200.7	
MB 480-645362/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-645362/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-202585-1 MS	Effluent	Total Recoverable	Water	200.7	
480-202585-1 MSD	Effluent	Total Recoverable	Water	200.7	

Analysis Batch: 645695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202585-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	645362
480-202585-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	645362
MB 480-645362/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	645362
LCS 480-645362/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	645362
480-202585-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	645362
480-202585-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	645362

General Chemistry

Analysis Batch: 645923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202585-1	Effluent	Total/NA	Water	SM 2540D	
480-202585-2	Influent	Total/NA	Water	SM 2540D	
MB 480-645923/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-645923/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 646071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-202585-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-202585-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-646071/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 480-202585-1

Client Sample ID: Effluent
Date Collected: 10/11/22 15:10
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	645044	ATG	EET BUF	10/12/22 17:06
Total Recoverable	Prep	200.7			645362	NVK	EET BUF	10/14/22 09:25
Total Recoverable	Analysis	200.7 Rev 4.4		1	645695	LMH	EET BUF	10/14/22 22:59
Total/NA	Analysis	SM 2540D		1	645923	EJL	EET BUF	10/17/22 17:46
Total/NA	Analysis	SM 4500 H+ B		1	646071	ARR	EET BUF	10/18/22 15:57

Client Sample ID: Influent
Date Collected: 10/11/22 15:30
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		40	645044	ATG	EET BUF	10/12/22 17:30
Total Recoverable	Prep	200.7			645362	NVK	EET BUF	10/14/22 09:25
Total Recoverable	Analysis	200.7 Rev 4.4		1	645695	LMH	EET BUF	10/14/22 23:29
Total/NA	Analysis	SM 2540D		1	645923	EJL	EET BUF	10/17/22 17:46
Total/NA	Analysis	SM 4500 H+ B		1	646071	ARR	EET BUF	10/18/22 15:57

Client Sample ID: Trip Blank
Date Collected: 10/11/22 00:00
Date Received: 10/12/22 08:00

Lab Sample ID: 480-202585-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	645044	ATG	EET BUF	10/12/22 17:54

Laboratory References:
EET 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: 480-202585-1

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: 480-202585-1

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

EET 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: 480-202585-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-202585-1	Effluent	Water	10/11/22 15:10	10/12/22 08:00
480-202585-2	Influent	Water	10/11/22 15:30	10/12/22 08:00
480-202585-3	Trip Blank	Water	10/11/22 00:00	10/12/22 08:00

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

Chain of Custody Record

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Client Information	Sampler: Sean P. Connelly	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-175478-28522.1
Client Contact: Chad Moose	Phone: (716)393-0870	E-Mail: Ryan.VanDette@et.eurofinsus.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 #: 11231631			
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, Y - Trizma, 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	10/11/22	1510	G	Water	N	N	1	3	1	1		
Influent	10/11/22	1530	G	Water	N	N	1	3	1	1		
Trip Blank	10/11/22	—	G	Water	N	N		1				

480-202585 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: 10/12/22 @ 0800	Company: Eurofins	Received by:	Date/Time: 10/12/22 @ 0800	Company: ETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 3.5 #1 ICE

Ver: 06/08/2021

November 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: T. Urban; C. Horrocks Weather/Temperature: Overcast, 32 F
Date: 11/15/2022 Arrival Time: 0730 Departure Time: 1400

Reason for Service: Inspect system, perform monthly sampling, clean system

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		Slight leak from air stripper "door"
Building Heater	X	Turned heater off
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 replaced October 21, 2022
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**	Flowing
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	7 (estimated) GPM (see Notes section)
Water Level Above Transducer	167 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	183 Inches
Flow Meter Reading	28,538,902 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	203 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	33 Inches H2O

Effluent Flow

Total System Meter Reading	73,763,360 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 6.5 (field test strip)

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

The system was on at arrival.

The EW-1 pump was replaced October 21, 2022.

Total system flow was timed at 7.0 gpm on system totalizer flow meter. All EW's are pumping. EW-1 estimated to produce the majority of flow.

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 (3Q2022) was collected on October 27, 2022.

The air stripper trays were mechanically cleaned today. The most recent prior cleaning was performed on September 15, 2022.

The monthly samples were not collected today, November 15, 2022.

Table 1
November 15, 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*	6,871	6,871	144,000	gpd	NA	NA	NA
pH	7.1	7.9	6.5 to 8.5	standard units	NA	NA	NA
Toluene	< 18	< 5.0	5	ug/L	< 0.0003	0.006	lbs/day
Chlorobenzene	< 19	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
cis-1,2-Dichloroethene	< 23	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
Benzene	< 24	< 5.0	5	ug/L	< 0.0003	0.006	lbs/day
1,1,1-Trichloroethane	< 15	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
Chloroethane	< 35	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
1,1-Dichloroethane	< 24	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
1,1-Dichloroethene	< 34	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
Trichloroethene	< 24	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
o-Chlorotoluene	1,400	< 5.0	10	ug/L	< 0.0003	0.012	lbs/day
Iron - Total	2,710	1,140	3,000	ug/L	0.07	3.61	lbs/day
TSS	< 4.0	5.6	20	mg/L	0.32		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 October 11, 2022 through November 15, 2022.*

Table 2
November 15, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 11/15/2022	units	Prior Report 10/11/2022
EW-1			
Pumping Rate	7	GPM	0
Water Level Above Transducer	167	Inches	270
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	183	Inches	162
Flow Meter Reading	28,538,902	gallons	28,538,538
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	203	Inches	174
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	33.0	inches H_2O	32.0
Effluent Flow			
Total System Meter Reading	73,763,360	gallons	73,529,731
Average System Flow Since Prior Report	6,871	gpd	
	286.3	gph	
	4.8	gpm	
Influent o-Chlorotoluene concentration	1,400	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

PREPARED FOR

Attn: Ryan Donovan
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

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JOB DESCRIPTION

ChemTrol Site - Monthly
ChemTrol Monthly Groundwater

JOB NUMBER

480-204020-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

Job Notes

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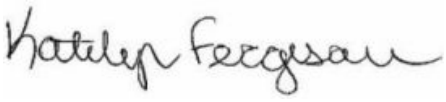

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Authorized for release by
Katelyn Ferguson, Project Manager I
katelyn.ferguson@et.eurofinsus.com
Designee for
Ryan VanDette, Project Manager II
Ryan.VanDette@et.eurofinsus.com
(716)504-9830

Table of Contents

Definitions/Glossary

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

Job ID: 480-204020-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance 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

Case Narrative

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

Job ID: 480-204020-1

Job ID: 480-204020-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-204020-1

Comments
No additional comments.

Receipt
The samples were received on 11/18/2022 2:00 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 6.9º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-204020-2). 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
Method 200.7 Rev 4.4: The continuing calibration blank (CCB 480-651489/22) contained Total Iron above the reporting limit (RL). All reported samples Effluent (480-204020-1), Influent (480-204020-2), (LCS 480-650881/2-A) and (MB 480-650881/1-A) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

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

General Chemistry
Methods 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 (480-204020-1) and Influent (480-204020-2).

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: 480-204020-1

Client Sample ID: Effluent — Lab Sample ID: 480-204020-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1140	^2	50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	5.6		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.7	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-204020-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1400		13		ug/L	40		624.1	Total/NA
Iron	2710	^2	50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	19.2	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-204020-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 480-204020-1

Client Sample ID: Effluent

Date Collected: 11/17/22 11:20
Date Received: 11/18/22 14:00

Lab Sample ID: 480-204020-1

Matrix: Water

Method: 40CFR136A 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			11/21/22 13:30	1
1,1-Dichloroethane	ND		5.0		ug/L			11/21/22 13:30	1
1,1-Dichloroethene	ND		5.0		ug/L			11/21/22 13:30	1
Benzene	ND		5.0		ug/L			11/21/22 13:30	1
Chlorobenzene	ND		5.0		ug/L			11/21/22 13:30	1
Chloroethane	ND		5.0		ug/L			11/21/22 13:30	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/21/22 13:30	1
Toluene	ND		5.0		ug/L			11/21/22 13:30	1
Trichloroethene	ND		5.0		ug/L			11/21/22 13:30	1
o-Chlorotoluene	ND		5.0		ug/L			11/21/22 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*11/21/22 13:30*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*11/21/22 13:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*11/21/22 13:30*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*11/21/22 13:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1140**	**^2**	50.0		ug/L		11/22/22 14:05	11/28/22 19:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	**5.6**		4.0		mg/L			11/23/22 16:43	1
pH (SM 4500 H+ B)	**7.9**	**HF**	0.1		SU			11/29/22 14:51	1
Temperature (SM 4500 H+ B)	**18.7**	**HF**	0.001		Degrees C			11/29/22 14:51	1

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

Job ID: 480-204020-1

Client Sample ID: Influent

Date Collected: 11/17/22 11:45
Date Received: 11/18/22 14:00

Lab Sample ID: 480-204020-2

Matrix: Water

Method: 40CFR136A 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			11/21/22 13:53	40
1,1-Dichloroethane	ND		24		ug/L			11/21/22 13:53	40
1,1-Dichloroethene	ND		34		ug/L			11/21/22 13:53	40
Benzene	ND		24		ug/L			11/21/22 13:53	40
Chlorobenzene	ND		19		ug/L			11/21/22 13:53	40
Chloroethane	ND		35		ug/L			11/21/22 13:53	40
cis-1,2-Dichloroethene	ND		23		ug/L			11/21/22 13:53	40
Toluene	ND		18		ug/L			11/21/22 13:53	40
Trichloroethene	ND		24		ug/L			11/21/22 13:53	40
o-Chlorotoluene	**1400**		13		ug/L			11/21/22 13:53	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*11/21/22 13:53*	*40*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*11/21/22 13:53*	*40*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*11/21/22 13:53*	*40*
Toluene-d8 (Surr)	*97*		*77 - 120*		*11/21/22 13:53*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2710**	**^2**	50.0		ug/L		11/22/22 14:05	11/28/22 19:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			11/23/22 16:43	1
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1		SU			11/29/22 15:05	1
Temperature (SM 4500 H+ B)	**19.2**	**HF**	0.001		Degrees C			11/29/22 15:05	1

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

Job ID: 480-204020-1

Client Sample ID: Trip Blank

Date Collected: 11/17/22 00:00
Date Received: 11/18/22 14:00

Lab Sample ID: 480-204020-3

Matrix: Water

Method: 40CFR136A 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			11/21/22 14:17	1
1,1-Dichloroethane	ND		5.0		ug/L			11/21/22 14:17	1
1,1-Dichloroethene	ND		5.0		ug/L			11/21/22 14:17	1
Benzene	ND		5.0		ug/L			11/21/22 14:17	1
Chlorobenzene	ND		5.0		ug/L			11/21/22 14:17	1
Chloroethane	ND		5.0		ug/L			11/21/22 14:17	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/21/22 14:17	1
Toluene	ND		5.0		ug/L			11/21/22 14:17	1
Trichloroethene	ND		5.0		ug/L			11/21/22 14:17	1
o-Chlorotoluene	ND		5.0		ug/L			11/21/22 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*		*11/21/22 14:17*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*11/21/22 14:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*11/21/22 14:17*	*1*
Toluene-d8 (Surr)	*94*		*77 - 120*		*11/21/22 14:17*	*1*

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

Lab Sample ID: MB 480-650788/8
Matrix: Water
Analysis Batch: 650788

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			11/21/22 12:57	1
1,1-Dichloroethane	ND		5.0		ug/L			11/21/22 12:57	1
1,1-Dichloroethene	ND		5.0		ug/L			11/21/22 12:57	1
Benzene	ND		5.0		ug/L			11/21/22 12:57	1
Chlorobenzene	ND		5.0		ug/L			11/21/22 12:57	1
Chloroethane	ND		5.0		ug/L			11/21/22 12:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/21/22 12:57	1
Toluene	ND		5.0		ug/L			11/21/22 12:57	1
Trichloroethene	ND		5.0		ug/L			11/21/22 12:57	1
o-Chlorotoluene	ND		5.0		ug/L			11/21/22 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*11/21/22 12:57*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*11/21/22 12:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*11/21/22 12:57*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*11/21/22 12:57*	*1*

Lab Sample ID: LCS 480-650788/6
Matrix: Water
Analysis Batch: 650788

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	19.5		ug/L		98	52 - 162
1,1-Dichloroethane	20.0	18.4		ug/L		92	59 - 155
1,1-Dichloroethene	20.0	19.4		ug/L		97	1 - 234
Benzene	20.0	18.6		ug/L		93	37 - 151
Chlorobenzene	20.0	18.3		ug/L		92	37 - 160
Chloroethane	20.0	20.5		ug/L		102	14 - 230
Toluene	20.0	18.1		ug/L		90	47 - 150
Trichloroethene	20.0	18.9		ug/L		95	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
4-Bromofluorobenzene (Surr)	*94*		*76 - 123*
Toluene-d8 (Surr)	*97*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-650881/1-A
Matrix: Water
Analysis Batch: 651489

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 650881

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		11/22/22 14:05	11/28/22 18:56	1

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

Lab Sample ID: LCS 480-650881/2-A
Matrix: Water
Analysis Batch: 651489

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 650881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			10000	11020		ug/L		110	85 - 115		

Lab Sample ID: 480-204020-2 MS
Matrix: Water
Analysis Batch: 651489

Client Sample ID: Influent
Prep Type: Total Recoverable
Prep Batch: 650881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron	2710	^2	10000	13530		ug/L		108	70 - 130		

Lab Sample ID: 480-204020-2 MSD
Matrix: Water
Analysis Batch: 651489

Client Sample ID: Influent
Prep Type: Total Recoverable
Prep Batch: 650881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	2710	^2	10000	13100		ug/L		104	70 - 130	3	20

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

Lab Sample ID: MB 480-651239/1
Matrix: Water
Analysis Batch: 651239

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			11/23/22 16:43	1

Lab Sample ID: LCS 480-651239/2
Matrix: Water
Analysis Batch: 651239

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			293	290.8		mg/L		99	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-651543/1
Matrix: Water
Analysis Batch: 651543

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: 480-204020-1

GC/MS VOA

Analysis Batch: 650788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204020-1	Effluent	Total/NA	Water	624.1	
480-204020-2	Influent	Total/NA	Water	624.1	
480-204020-3	Trip Blank	Total/NA	Water	624.1	
MB 480-650788/8	Method Blank	Total/NA	Water	624.1	
LCS 480-650788/6	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 650881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204020-1	Effluent	Total Recoverable	Water	200.7	
480-204020-2	Influent	Total Recoverable	Water	200.7	
MB 480-650881/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-650881/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-204020-2 MS	Influent	Total Recoverable	Water	200.7	
480-204020-2 MSD	Influent	Total Recoverable	Water	200.7	

Analysis Batch: 651489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204020-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	650881
480-204020-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	650881
MB 480-650881/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	650881
LCS 480-650881/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	650881
480-204020-2 MS	Influent	Total Recoverable	Water	200.7 Rev 4.4	650881
480-204020-2 MSD	Influent	Total Recoverable	Water	200.7 Rev 4.4	650881

General Chemistry

Analysis Batch: 651239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204020-1	Effluent	Total/NA	Water	SM 2540D	
480-204020-2	Influent	Total/NA	Water	SM 2540D	
MB 480-651239/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-651239/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 651543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204020-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-204020-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-651543/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Lab Chronicle

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

Job ID: 480-204020-1

Client Sample ID: Effluent
Lab Sample ID: 480-204020-1
Date Collected: 11/17/22 11:20
Matrix: Water
Date Received: 11/18/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	650788	ATG	EET BUF	11/21/22 13:30
Total Recoverable	Prep	200.7			650881	VAK	EET BUF	11/22/22 14:05
Total Recoverable	Analysis	200.7 Rev 4.4		1	651489	LMH	EET BUF	11/28/22 19:04
Total/NA	Analysis	SM 2540D		1	651239	SAK	EET BUF	11/23/22 16:43
Total/NA	Analysis	SM 4500 H+ B		1	651543	KMF	EET BUF	11/29/22 14:51

Client Sample ID: Influent
Lab Sample ID: 480-204020-2
Date Collected: 11/17/22 11:45
Matrix: Water
Date Received: 11/18/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		40	650788	ATG	EET BUF	11/21/22 13:53
Total Recoverable	Prep	200.7			650881	VAK	EET BUF	11/22/22 14:05
Total Recoverable	Analysis	200.7 Rev 4.4		1	651489	LMH	EET BUF	11/28/22 19:08
Total/NA	Analysis	SM 2540D		1	651239	SAK	EET BUF	11/23/22 16:43
Total/NA	Analysis	SM 4500 H+ B		1	651543	KMF	EET BUF	11/29/22 15:05

Client Sample ID: Trip Blank
Lab Sample ID: 480-204020-3
Date Collected: 11/17/22 00:00
Matrix: Water
Date Received: 11/18/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	650788	ATG	EET BUF	11/21/22 14:17

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

Accreditation/Certification Summary

Client: Waste Management
Job ID: 480-204020-1
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	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: 480-204020-1

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

EET 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: 480-204020-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-204020-1	Effluent	Water	11/17/22 11:20	11/18/22 14:00
480-204020-2	Influent	Water	11/17/22 11:45	11/18/22 14:00
480-204020-3	Trip Blank	Water	11/17/22 00:00	11/18/22 14:00

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

Syracuse #225

Client Information	Sampler: Tom Uhl	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-178044-28522.1
Client Contact: Chad Moose	Phone:	E-Mail: Ryan.VanDette@et.eurofinsus.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):			
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 11231631			
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, 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, Y - Trizma, Z - other (specify)

480-204020 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624.1_PREC - 624	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of	Special Instructions/Note:
			Preservation Code:				D	A	N	N		
Effluent	11/17/22	1120	G	Water			1	3	1	1	6	
Influent	11/17/22	1145	G	Water			1	3	1	1	6	
Trip Blank	11/17/22	—	G	Water				1			1	

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: Tom Uhl	Date/Time: 11/17/22 P	Company AECOM	Received by:
Relinquished by:	Date/Time: 1400	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

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

Received by: Date/Time: 11/17/22 1400 Company IMAS

Cooler # 1 1.1=

Ver: 06/08/2021

December 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: S. Connelly Weather/Temperature: Overcast, 19 F
Date: 12/14/2022 Arrival Time: 08:30 Departure Time: 13:30

Reason for Service: Inspect system, perform monthly sampling, clean system

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		Slight leak from air stripper "door"
Building Heater	X	Turned heater off
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 replaced October 21, 2022
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**	Flowing
Cleanout	**X**	

Instrumentation/Readings:

EW-1

Pumping Rate	5.5 (estimated) GPM (see Notes section)
Water Level Above Transducer	154 Inches
Flow Meter Reading	Not Working Gallons

EW-2

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	180 Inches
Flow Meter Reading	28,541,401 Gallons

EW-3

Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	219 Inches
Flow Meter Reading	15,696,383 Gallons

Air Stripper

Stripper Blower Pressure	17 Inches H2O

Effluent Flow

Total System Meter Reading	73,887,507 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 at arrival.

Total system flow was timed at 5.5 gpm on system totalizer flow meter. All EW's are pumping. EW-1 estimated to produce the majority of flow.

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 (4Q2022) was collected today, December 14, 2022.

The air stripper trays were mechanically cleaned today. The most recent prior cleaning was performed on September 15, 2022.

The monthly samples were collected today, December 14, 2022.

Table 1
December 14, 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*	4,281	4,281	144,000	gpd	NA	NA	NA
pH	7.1	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	1,400	< 5.0	10	ug/L	< 0.0002	0.012	lbs/day
Iron - Total	1,700	1,250	3,000	ug/L	0.04	3.61	lbs/day
TSS	< 4.0	< 4.0	20	mg/L	< 0.14		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 November 15, 2022 through December 14, 2022.*

Table 2
December 14, 2022 Summary of Influent and Effluent Data

Chem-Trol Site
Town of Hamburg, New York

Instrumentation/Readings:	Current Report 12/14/2022	units	Prior Report 11/15/2022
EW-1			
Pumping Rate	5.5	GPM	7
Water Level Above Transducer	154	Inches	167
Flow Meter Reading	NW	gallons	NW
EW-2			
Pumping Rate	0	GPM	0
Water Level Above Transducer	180	Inches	183
Flow Meter Reading	28,541,401	gallons	28,538,902
EW-3			
Pumping Rate	0	GPM	0
Water Level Above Transducer	219	Inches	203
Flow Meter Reading	15,696,383	gallons	15,696,383
Air Stripper			
Stripper Blower Pressure	17.0	inches H_2O	33.0
Effluent Flow			
Total System Meter Reading	73,887,507	gallons	73,763,360
Average System Flow Since Prior Report	4,281	gpd	
	178.4	gph	
	3.0	gpm	
Influent o-Chlorotoluene concentration	1,400	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

PREPARED FOR

Attn: Ryan Donovan
Waste Management
600 New Ludlow Road
South Hadley, Massachusetts 01075

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JOB DESCRIPTION

ChemTrol Site - Monthly
ChemTrol Monthly Groundwater

JOB NUMBER

480-204792-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-204792-1

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: 480-204792-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-204792-1

Comments
No additional comments.

Receipt
The samples were received on 12/15/2022 9:00 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 4.2º C.

GC/MS VOA
Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-204792-2). 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: 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 (480-204792-1) and Influent (480-204792-2).

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: 480-204792-1

Client Sample ID: Effluent — Lab Sample ID: 480-204792-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1250		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	16.4	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Influent — Lab Sample ID: 480-204792-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	1400		13		ug/L	40		624.1	Total/NA
Iron	1700		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
pH	7.1	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	16.5	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-204792-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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

Job ID: 480-204792-1

Client Sample ID: Effluent

Date Collected: 12/14/22 09:00
Date Received: 12/15/22 09:00

Lab Sample ID: 480-204792-1

Matrix: Water

Method: 40CFR136A 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			12/15/22 21:00	1
1,1-Dichloroethane	ND		5.0		ug/L			12/15/22 21:00	1
1,1-Dichloroethene	ND		5.0		ug/L			12/15/22 21:00	1
Benzene	ND		5.0		ug/L			12/15/22 21:00	1
Chlorobenzene	ND		5.0		ug/L			12/15/22 21:00	1
Chloroethane	ND		5.0		ug/L			12/15/22 21:00	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/15/22 21:00	1
Toluene	ND		5.0		ug/L			12/15/22 21:00	1
Trichloroethene	ND		5.0		ug/L			12/15/22 21:00	1
o-Chlorotoluene	ND		5.0		ug/L			12/15/22 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*12/15/22 21:00*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/15/22 21:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/15/22 21:00*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*12/15/22 21:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1250**		50.0		ug/L		12/19/22 08:55	12/20/22 04:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			12/20/22 12:48	1
pH (SM 4500 H+ B)	**8.1**	**HF**	0.1		SU			12/17/22 15:17	1
Temperature (SM 4500 H+ B)	**16.4**	**HF**	0.001		Degrees C			12/17/22 15:17	1

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

Job ID: 480-204792-1

Client Sample ID: Influent

Date Collected: 12/14/22 09:15
Date Received: 12/15/22 09:00

Lab Sample ID: 480-204792-2

Matrix: Water

Method: 40CFR136A 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			12/15/22 21:24	40
1,1-Dichloroethane	ND		24		ug/L			12/15/22 21:24	40
1,1-Dichloroethene	ND		34		ug/L			12/15/22 21:24	40
Benzene	ND		24		ug/L			12/15/22 21:24	40
Chlorobenzene	ND		19		ug/L			12/15/22 21:24	40
Chloroethane	ND		35		ug/L			12/15/22 21:24	40
cis-1,2-Dichloroethene	ND		23		ug/L			12/15/22 21:24	40
Toluene	ND		18		ug/L			12/15/22 21:24	40
Trichloroethene	ND		24		ug/L			12/15/22 21:24	40
o-Chlorotoluene	**1400**		13		ug/L			12/15/22 21:24	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*12/15/22 21:24*	*40*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*12/15/22 21:24*	*40*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*12/15/22 21:24*	*40*
Toluene-d8 (Surr)	*96*		*77 - 120*		*12/15/22 21:24*	*40*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**1700**		50.0		ug/L		12/19/22 08:55	12/20/22 04:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	ND		4.0		mg/L			12/20/22 12:48	1
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1		SU			12/17/22 15:18	1
Temperature (SM 4500 H+ B)	**16.5**	**HF**	0.001		Degrees C			12/17/22 15:18	1

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

Job ID: 480-204792-1

Client Sample ID: Trip Blank
Date Collected: 12/14/22 00:00
Date Received: 12/15/22 09:00

Lab Sample ID: 480-204792-3
Matrix: Water

Method: 40CFR136A 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			12/15/22 21:47	1
1,1-Dichloroethane	ND		5.0		ug/L			12/15/22 21:47	1
1,1-Dichloroethene	ND		5.0		ug/L			12/15/22 21:47	1
Benzene	ND		5.0		ug/L			12/15/22 21:47	1
Chlorobenzene	ND		5.0		ug/L			12/15/22 21:47	1
Chloroethane	ND		5.0		ug/L			12/15/22 21:47	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/15/22 21:47	1
Toluene	ND		5.0		ug/L			12/15/22 21:47	1
Trichloroethene	ND		5.0		ug/L			12/15/22 21:47	1
o-Chlorotoluene	ND		5.0		ug/L			12/15/22 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*12/15/22 21:47*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/15/22 21:47*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*12/15/22 21:47*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*12/15/22 21:47*	*1*

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

Lab Sample ID: MB 480-653603/8
Matrix: Water
Analysis Batch: 653603

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			12/15/22 16:48	1
1,1-Dichloroethane	ND		5.0		ug/L			12/15/22 16:48	1
1,1-Dichloroethene	ND		5.0		ug/L			12/15/22 16:48	1
Benzene	ND		5.0		ug/L			12/15/22 16:48	1
Chlorobenzene	ND		5.0		ug/L			12/15/22 16:48	1
Chloroethane	ND		5.0		ug/L			12/15/22 16:48	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/15/22 16:48	1
Toluene	ND		5.0		ug/L			12/15/22 16:48	1
Trichloroethene	ND		5.0		ug/L			12/15/22 16:48	1
o-Chlorotoluene	ND		5.0		ug/L			12/15/22 16:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*12/15/22 16:48*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/15/22 16:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/15/22 16:48*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*12/15/22 16:48*	*1*

Lab Sample ID: LCS 480-653603/6
Matrix: Water
Analysis Batch: 653603

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		109	52 - 162
1,1-Dichloroethane	20.0	20.7		ug/L		103	59 - 155
1,1-Dichloroethene	20.0	22.2		ug/L		111	1 - 234
Benzene	20.0	20.8		ug/L		104	37 - 151
Chlorobenzene	20.0	19.7		ug/L		99	37 - 160
Chloroethane	20.0	20.9		ug/L		105	14 - 230
Toluene	20.0	19.9		ug/L		100	47 - 150
Trichloroethene	20.0	20.6		ug/L		103	71 - 157

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*68 - 130*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*
Toluene-d8 (Surr)	*96*		*77 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-653794/1-A
Matrix: Water
Analysis Batch: 654051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 653794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		12/19/22 08:55	12/20/22 03:28	1

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

Job ID: 480-204792-1

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

Lab Sample ID: LCS 480-653794/2-A
Matrix: Water
Analysis Batch: 654051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 653794

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			10000	10140		ug/L		101	85 - 115		

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

Lab Sample ID: MB 480-654076/1
Matrix: Water
Analysis Batch: 654076

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			12/20/22 12:48	1

Lab Sample ID: LCS 480-654076/2
Matrix: Water
Analysis Batch: 654076

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			341	325.2		mg/L		95	88 - 110		

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-654058/1
Matrix: Water
Analysis Batch: 654058

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: 480-204792-1

GC/MS VOA

Analysis Batch: 653603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204792-1	Effluent	Total/NA	Water	624.1	
480-204792-2	Influent	Total/NA	Water	624.1	
480-204792-3	Trip Blank	Total/NA	Water	624.1	
MB 480-653603/8	Method Blank	Total/NA	Water	624.1	
LCS 480-653603/6	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 653794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204792-1	Effluent	Total Recoverable	Water	200.7	
480-204792-2	Influent	Total Recoverable	Water	200.7	
MB 480-653794/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-653794/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 654051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204792-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	653794
480-204792-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	653794
MB 480-653794/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	653794
LCS 480-653794/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	653794

General Chemistry

Analysis Batch: 654058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204792-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-204792-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-654058/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 654076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204792-1	Effluent	Total/NA	Water	SM 2540D	
480-204792-2	Influent	Total/NA	Water	SM 2540D	
MB 480-654076/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-654076/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Lab Chronicle

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

Job ID: 480-204792-1

Client Sample ID: Effluent

Lab Sample ID: 480-204792-1

Date Collected: 12/14/22 09:00
Matrix: Water
Date Received: 12/15/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	653603	ATG	EET BUF	12/15/22 21:00
Total Recoverable	Prep	200.7			653794	VAK	EET BUF	12/19/22 08:55
Total Recoverable	Analysis	200.7 Rev 4.4		1	654051	LMH	EET BUF	12/20/22 04:10
Total/NA	Analysis	SM 2540D		1	654076	SAK	EET BUF	12/20/22 12:48
Total/NA	Analysis	SM 4500 H+ B		1	654058	KMF	EET BUF	12/17/22 15:17

Client Sample ID: Influent

Lab Sample ID: 480-204792-2

Date Collected: 12/14/22 09:15
Matrix: Water
Date Received: 12/15/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		40	653603	ATG	EET BUF	12/15/22 21:24
Total Recoverable	Prep	200.7			653794	VAK	EET BUF	12/19/22 08:55
Total Recoverable	Analysis	200.7 Rev 4.4		1	654051	LMH	EET BUF	12/20/22 04:14
Total/NA	Analysis	SM 2540D		1	654076	SAK	EET BUF	12/20/22 12:48
Total/NA	Analysis	SM 4500 H+ B		1	654058	KMF	EET BUF	12/17/22 15:18

Client Sample ID: Trip Blank

Lab Sample ID: 480-204792-3

Date Collected: 12/14/22 00:00
Matrix: Water
Date Received: 12/15/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	653603	ATG	EET BUF	12/15/22 21:47

Laboratory References:

EET 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: 480-204792-1

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: 480-204792-1

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

EET 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: 480-204792-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-204792-1	Effluent	Water	12/14/22 09:00	12/15/22 09:00
480-204792-2	Influent	Water	12/14/22 09:15	12/15/22 09:00
480-204792-3	Trip Blank	Water	12/14/22 00:00	12/15/22 09:00

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-178165-28522.1
Client Contact: Chad Moose	Phone: (716) 393 0870	E-Mail: Ryan.VanDette@et.eurofinsus.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):			
State, Zip: PA, 19067	Compliance Project: Δ Yes Δ No			
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO #: 11231631			
Email: cmoose@wm.com	WO #:			
Project Name: ChemTrol Site/NY22 Event Desc: ChemTrol Monthly Groundwate	Project #: 48002447			
Site: New York	SSOW#:			

Analysis Requested

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	12/14/22	0900	G	Water	N	N	1	3	1	1		
Influent	12/14/22	0915	G	Water	N	N	1	3	1	1		
Trip Blank	12/14/22	—	—	Water	N	N		1				

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, Y - Trizma, Z - other (specify)

Other:

480-204792 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
1	[signature]	12/15/22 @0900		[signature]	12/15/22 @0900	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 4.2 IR

Ver: 06/08/2021