

# Fourth Quarter 2021 – October, November, December Operation, Maintenance, and Monitoring Report

CHEM-TROL Site NYSDEC Site No. 9-15-015 Report.hw915015.2022-03-09.4Q2021OMM

#### 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:

Waste Management 100 Brandywine Boulevard, Suite 300 Newtown, PA 18940

### Prepared by:

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

March 9, 2022

AECOM Project No. 60652207.3



AECOM 1 John James Audubon Pkwy Suite 210 Amherst, NY 14228 716 856 5636 tel www.aecom.com

March 9, 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

Fourth Quarter 2021 Operation, Maintenance, and Monitoring Report

Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2022-03-09.4Q2021OMM

Dear Mr. May:

Enclosed please find the Fourth Quarter 2021 (4Q21 – 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, S.C. Holdings, Inc.

The enclosed report contains the following information for 4Q21:

- 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 4Q21 is as follows:

### October 2021

On October 11, 2021, AECOM performed pressure washing and mechanical cleaning of the air stripper trays.

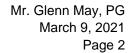
AECOM collected the monthly monitoring samples on October 21, 2021; analytical data were received on November 2, 2021. As presented on Table 1 (October 21, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

#### November 2021

AECOM collected the monthly monitoring samples on November 19, 2021; analytical data were received on November 29, 2021. As presented on Table 1 (November 19, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

#### December 2021

On December 1, 2021, AECOM performed pressure washing and mechanical cleaning of the air stripper trays.





AECOM collected the monthly monitoring samples on December 2, 2021; analytical data were received on December 13, 2021. As presented on Table 1 (December 2, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

On December 9, 2021, AECOM collected the 4Q21 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

James L. Kauyon

**Enclosure** 

cc: Mr. Chad Moose (Waste Management) (electronic copy)

Ryan Donovan, (Waste Management) (electronic copy)

60652207 Project File



### 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: Mostly cloudy, 59 F Date: <u>10/21/2021</u> Arrival Time: <u>8:45</u> Departure Time: 12:45 Reason for Service: Inspect system and perform monthly sampling **Inspection Items: Comments:** OK: X See Notes/Explanations section. Site Appearance/Condition **Building Exterior** $\mathbf{X}$ Overhead Door Wood lintel decaying, header exposed. $\mathbf{X}$ Siding Metal trim missing from lintel. Roof and Discharge Pipe $\mathbf{X}$ **Building Interior** Indication of Spills or Leaks None **Building Heater** $\mathbf{X}$ Breaker was on; however, the heater was off. X Phone System Disconnected Exhaust Fan Could not get fan to work. Fire Extinguisher X

 $\mathbf{X}$ 

First Aid & Eye Wash

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	<u>X</u>	1 map to containly be the
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	
	X	

X

Outfall

Cleanout

Instrumentation/Readings:	
EW-1	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>193</u> Inches
Flow Meter Reading	Not Working Gallons
EW-2	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	175Inches
Flow Meter Reading	<u>28,528,522</u> Gallons
EW-3	
Pumping Rate	OGPM (see Notes section)
Water Level Above Transducer	<u>193</u> Inches
Flow Meter Reading	<u>15,696,383</u> Gallons
Air Stripper	
Stripper Blower Pressure	<u>16.5</u> Inches H2O
Effluent Flow	
Total System Meter Reading	<u>72,526,092</u> 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 initially on upon arrival.

Total system flow was timed at 2.5 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 (3Q2021) was collected on 9/20/21.

With the replacement of the former HDPE shallow tray air stripper with a QED EZ-Tray stainless steel air stripper unit, acid washes will no longer be necessary. The trays in the new unit are removable and mechanical cleaning methods will be utilized for cleaning (pressure washer). The air stripper trays were mechanically cleaned on 10/11/2021.

The monthly samples were collected today, 10/21/21, by AECOM.

Table 1
October 21, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

		Conce		Mass Loading			
Parameters	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow <sup>*</sup> pH	1,742 7.0	1,742 7.9	144,000 6.5 to 8.5	gpd standard units	NA NA	NA NA	NA NA
Toluene Chlorobenzene cis-1,2-Dichloroethene Benzene 1,1,1-Trichloroethane Chloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trichloroethene o-Chlorotoluene	< 36 < 38 < 46 < 48 < 31 < 70 < 47 < 68 < 48 3,000	< 5.0 < 5.0	5 10 10 5 10 10 10 10 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	< 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001	0.006 0.012 0.012 0.006 0.012 0.012 0.012 0.012 0.012 0.012	lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day
Iron - Total TSS	1,090 4.4	449 5.2	3,000 20	ug/L mg/L	0.01 0.08	3.61	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.

<sup>\*</sup> Average daily flow as measured September 16, 2021 through October 21, 2021.

# Table 2 October 21, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

Instrumen	ntation/Readings:	Current Report 10/21/2021	units	Prior Report 9/16/2021
L 11-1	Pumping Rate	0	GPM	0
	Water Level Above Transducer	193	Inches	289
	Flow Meter Reading	NW	gallons	NW
EW-2				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	175	Inches	182
	Flow Meter Reading	28,528,522	gallons	28,528,522
EW-3				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	193	Inches	202
	Flow Meter Reading	15,696,383	gallons	15,696,383
Air Strippe	er			
	Stripper Blower Pressure	16.5	inches H <sub>2</sub> O	>20
Effluent F	low			
	Total System Meter Reading	72,526,092	gallons	72,465,127
	Average System Flow Since Prior Report	1,742	gpd	
		72.6	gph	
		1.2	gpm	
	Influent o-Chlorotoluene concentration	3,000	ug/L	
	Current month mass removal	0.7	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

## **ANALYTICAL REPORT**

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

Laboratory Job ID: 480-191263-1

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: 11/2/2021 2:58:00 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

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

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

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

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Client: Waste Management

Laboratory Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

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### **Definitions/Glossary**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

#### **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**

Appreviation	i nese commonly used appreviations may or may not be present in this report.
п	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

Duplicate Error Ratio (normalized absolute difference) **DER** 

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 MLMinimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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** 

Relative Error Ratio (Radiochemistry) **RER** 

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC** 

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### **Case Narrative**

Client: Waste Management

Job ID: 480-191263-1 Project/Site: ChemTrol Site - Monthly

Job ID: 480-191263-1

Laboratory: Eurofins TestAmerica, Buffalo

**Narrative** 

Job Narrative 480-191263-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/21/2021 2:35 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 3.5° C.

#### **GC/MS VOA**

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-191263-C), (480-191263-C-2 MS) and (480-191263-C-2 MSD). 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.

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 (480-191263-1) and Influent (480-191263-2).

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

**Client Sample ID: Effluent** 

Lab Sample ID: 480-191263-1

Job ID: 480-191263-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	449		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
pН	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	17.5	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

### Client Sample ID: Influent Lab Sample ID: 480-191263-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac [	Method	Prep Type
o-Chlorotoluene	3000	26	ug/L	80	624.1	Total/NA
Iron	1090	50.0	ug/L	1	200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	4.4	4.0	mg/L	1	SM 2540D	Total/NA
pH	7.2 HF	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	17.9 HF	0.001	Degrees C	1	SM 4500 H+ B	Total/NA

### Client Sample ID: Trip Blank Lab Sample ID: 480-191263-3

No Detections.

11/2/2021

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### **Client Sample Results**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

Iron

**Client Sample ID: Effluent** Lab Sample ID: 480-191263-1

Date Collected: 10/21/21 09:30 **Matrix: Water** Date Received: 10/21/21 14:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/22/21 19:19	1
1,1-Dichloroethane	ND		5.0		ug/L			10/22/21 19:19	1
1,1-Dichloroethene	ND		5.0		ug/L			10/22/21 19:19	1
Benzene	ND		5.0		ug/L			10/22/21 19:19	1
Chlorobenzene	ND		5.0		ug/L			10/22/21 19:19	1
Chloroethane	ND		5.0		ug/L			10/22/21 19:19	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/22/21 19:19	1
Toluene	ND		5.0		ug/L			10/22/21 19:19	1
Trichloroethene	ND		5.0		ug/L			10/22/21 19:19	1
o-Chlorotoluene	ND		5.0		ug/L			10/22/21 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		68 - 130			-		10/22/21 19:19	1
Dibromofluoromethane (Surr)	98		75 - 123					10/22/21 19:19	1
4-Bromofluorobenzene (Surr)	102		76 - 123					10/22/21 19:19	1
Toluene-d8 (Surr)	103		77 - 120					10/22/21 19:19	1
Method: 200.7 Rev 4.4 - Me	tals (ICP) - Tot	al Recove	rable						
Analyte	` '	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.2		4.0		mg/L			10/26/21 16:33	1
pH	7.9	HF	0.1		SU			10/28/21 20:36	1
Temperature	17.5	HF	0.001		Degrees C			10/28/21 20:36	1

50.0

ug/L

449

10/26/21 09:49 10/27/21 23:25

11/2/2021

### **Client Sample Results**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

Lab Sample ID: 480-191263-2

**Matrix: Water** 

Date Collected: 10/21/21 10:00 Date Received: 10/21/21 14:35

**Client Sample ID: Influent** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		31		ug/L			10/22/21 19:43	80
1,1-Dichloroethane	ND		47		ug/L			10/22/21 19:43	80
1,1-Dichloroethene	ND		68		ug/L			10/22/21 19:43	80
Benzene	ND		48		ug/L			10/22/21 19:43	80
Chlorobenzene	ND		38		ug/L			10/22/21 19:43	80
Chloroethane	ND		70		ug/L			10/22/21 19:43	80
cis-1,2-Dichloroethene	ND		46		ug/L			10/22/21 19:43	80
Toluene	ND		36		ug/L			10/22/21 19:43	80
Trichloroethene	ND		48		ug/L			10/22/21 19:43	80
o-Chlorotoluene	3000		26		ug/L			10/22/21 19:43	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130					10/22/21 19:43	80
Dibromofluoromethane (Surr)	100		75 - 123					10/22/21 19:43	80
4-Bromofluorobenzene (Surr)	102		76 - 123					10/22/21 19:43	80
Toluene-d8 (Surr)	103		77 - 120					10/22/21 19:43	80
Method: 200.7 Rev 4.4 - Me	etals (ICP) - Tot	al Recove	rable						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1090		50.0		ug/L		10/26/21 09:49	10/27/21 23:44	1

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.4		4.0		mg/L			10/26/21 16:33	1
pH	7.2	HF	0.1		SU			10/28/21 20:37	1
Temperature	17.9	HF	0.001		Degrees C			10/28/21 20:37	1

### **Client Sample Results**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

Client Sample ID: Trip Blank Lab Sample ID: 480-191263-3

Matrix: Water

Date Collected: 10/21/21 00:00 Date Received: 10/21/21 14:35

Method: 624.1 - Volatile Or	ganic Compou	nds (GC/N	IS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/22/21 20:06	1
1,1-Dichloroethane	ND		5.0		ug/L			10/22/21 20:06	1
1,1-Dichloroethene	ND		5.0		ug/L			10/22/21 20:06	1
Benzene	ND		5.0		ug/L			10/22/21 20:06	1
Chlorobenzene	ND		5.0		ug/L			10/22/21 20:06	1
Chloroethane	ND		5.0		ug/L			10/22/21 20:06	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/22/21 20:06	1
Toluene	ND		5.0		ug/L			10/22/21 20:06	1
Trichloroethene	ND		5.0		ug/L			10/22/21 20:06	1
o-Chlorotoluene	ND		5.0		ug/L			10/22/21 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130			-		10/22/21 20:06	1
Dibromofluoromethane (Surr)	102		75 - 123					10/22/21 20:06	1
4-Bromofluorobenzene (Surr)	101		76 - 123					10/22/21 20:06	1
Toluene-d8 (Surr)	104		77 - 120					10/22/21 20:06	1

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Client: Waste Management

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: MB 480-601676/7

**Matrix: Water** 

**Analysis Batch: 601676** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Job ID: 480-191263-1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			10/22/21 18:05	1
1,1-Dichloroethane	ND		5.0		ug/L			10/22/21 18:05	1
1,1-Dichloroethene	ND		5.0		ug/L			10/22/21 18:05	1
Benzene	ND		5.0		ug/L			10/22/21 18:05	1
Chlorobenzene	ND		5.0		ug/L			10/22/21 18:05	1
Chloroethane	ND		5.0		ug/L			10/22/21 18:05	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/22/21 18:05	1
Toluene	ND		5.0		ug/L			10/22/21 18:05	1
Trichloroethene	ND		5.0		ug/L			10/22/21 18:05	1
o-Chlorotoluene	ND		5.0		ug/L			10/22/21 18:05	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 130		10/22/21 18:05	1
Dibromofluoromethane (Surr)	101		75 - 123		10/22/21 18:05	1
4-Bromofluorobenzene (Surr)	100		76 - 123		10/22/21 18:05	1
Toluene-d8 (Surr)	103		77 - 120		10/22/21 18:05	1

Lab Sample ID: LCS 480-601676/5

**Matrix: Water** 

**Analysis Batch: 601676** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	20.0	21.1		ug/L		106	52 - 162	
1,1-Dichloroethane	20.0	22.4		ug/L		112	59 - 155	
1,1-Dichloroethene	20.0	22.6		ug/L		113	1 - 234	
Benzene	20.0	22.3		ug/L		112	37 - 151	
Chlorobenzene	20.0	21.5		ug/L		107	37 - 160	
Chloroethane	20.0	21.9		ug/L		110	14 - 230	
Toluene	20.0	21.8		ug/L		109	47 - 150	
Trichloroethene	20.0	20.7		ug/L		104	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 130
Dibromofluoromethane (Surr)	103		75 - 123
4-Bromofluorobenzene (Surr)	104		76 - 123
Toluene-d8 (Surr)	105		77 - 120

Lab Sample ID: 480-191263-2 MS

**Matrix: Water** 

Analysis Batch: 601676

Sample	Sample	Spike	MS	MS				%Rec.	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ND		1600	1640		ug/L		102	52 - 162	
ND		1600	1840		ug/L		115	59 - 155	
ND		1600	1810		ug/L		113	1 - 234	
ND		1600	1820		ug/L		114	37 - 151	
ND		1600	1710		ug/L		107	37 - 160	
ND		1600	2140		ug/L		133	14 - 230	
	Result ND ND ND ND ND ND ND	ND ND ND ND	Result         Qualifier         Added           ND         1600           ND         1600           ND         1600           ND         1600           ND         1600           ND         1600	Result         Qualifier         Added         Result           ND         1600         1640           ND         1600         1840           ND         1600         1810           ND         1600         1820           ND         1600         1710	Result         Qualifier         Added         Result         Qualifier           ND         1600         1640           ND         1600         1840           ND         1600         1810           ND         1600         1820           ND         1600         1710	Result         Qualifier         Added         Result         Qualifier         Unit           ND         1600         1640         ug/L           ND         1600         1840         ug/L           ND         1600         1810         ug/L           ND         1600         1820         ug/L           ND         1600         1710         ug/L	Result         Qualifier         Added         Result         Qualifier         Unit         D           ND         1600         1640         ug/L         ug/L           ND         1600         1840         ug/L           ND         1600         1810         ug/L           ND         1600         1820         ug/L           ND         1600         1710         ug/L	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec           ND         1600         1640         ug/L         102           ND         1600         1840         ug/L         115           ND         1600         1810         ug/L         113           ND         1600         1820         ug/L         114           ND         1600         1710         ug/L         107	Result         Qualifier         Added         Result         Qualifier         Unit         D         %Rec         Limits           ND         1600         1640         ug/L         102         52 - 162           ND         1600         1840         ug/L         115         59 - 155           ND         1600         1810         ug/L         113         1 - 234           ND         1600         1820         ug/L         114         37 - 151           ND         1600         1710         ug/L         107         37 - 160

Eurofins TestAmerica, Buffalo

**Client Sample ID: Influent** 

Prep Type: Total/NA

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Client: Waste Management

Job ID: 480-191263-1 Project/Site: ChemTrol Site - Monthly

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

**Matrix: Water** 

**Analysis Batch: 601676** 

Lab Sample ID: 480-191263-2 MS

**Client Sample ID: Influent** 

Prep Type: Total/NA

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Toluene ND 1600 1740 ug/L 109 47 - 150 Trichloroethene ND 1600 1640 ug/L 103 71 - 157

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 68 - 130 Dibromofluoromethane (Surr) 100 75 - 123 4-Bromofluorobenzene (Surr) 102 76 - 123 Toluene-d8 (Surr) 104 77 - 120

Lab Sample ID: 480-191263-2 MSD **Client Sample ID: Influent Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 601676** 

Sample Sample Spike MSD MSD %Rec. **RPD** Qualifier RPD Result Qualifier Limits Limit **Analyte** Result Added Unit D %Rec 1,1,1-Trichloroethane ND 1600 1580 99 52 - 162 3 15 ug/L ND 1,1-Dichloroethane 1600 1740 ug/L 109 59 - 155 6 15 ND 1600 1690 105 1 - 234 1,1-Dichloroethene ug/L 15 ND 1600 1700 ug/L 106 37 - 15115 Benzene Chlorobenzene ND 1600 1670 ug/L 104 37 - 160 15 Chloroethane ND 1600 1950 ug/L 122 14 - 230 15

1690

1590

ug/L

ug/L

1600

1600

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 96 68 - 130 Dibromofluoromethane (Surr) 99 75 - 123 4-Bromofluorobenzene (Surr) 102 76 - 123 Toluene-d8 (Surr) 104 77 - 120

ND

ND

Lab Sample ID: MB 480-601678/7

**Matrix: Water** 

Toluene

Trichloroethene

**Analysis Batch: 601678** 

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

47 - 150

71 - 157

106

99

MB MB **MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 1.1.1-Trichloroethane 5.0 10/22/21 18:05 ND ug/L 1.1-Dichloroethane ND 5.0 ug/L 10/22/21 18:05 1,1-Dichloroethene ND 5.0 ug/L 10/22/21 18:05 Benzene ND 5.0 ug/L 10/22/21 18:05 Chlorobenzene ND 5.0 ug/L 10/22/21 18:05 Chloroethane ND 5.0 ug/L 10/22/21 18:05 cis-1,2-Dichloroethene ND 5.0 ug/L 10/22/21 18:05 ug/L Toluene ND 5.0 10/22/21 18:05 Trichloroethene ND 5.0 ug/L 10/22/21 18:05 o-Chlorotoluene ND 5.0 10/22/21 18:05 ug/L

MR MR Dil Fac Qualifier Limits Surrogate %Recovery Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 94 68 - 130 10/22/21 18:05 Dibromofluoromethane (Surr) 101 75 - 123 10/22/21 18:05

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15

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11/2/2021

Client: Waste Management Job ID: 480-191263-1 Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: MB 480-601678/7

**Matrix: Water** 

**Analysis Batch: 601678** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		76 - 123		10/22/21 18:05	1
Toluene-d8 (Surr)	103		77 - 120		10/22/21 18:05	1

Lab Sample ID: LCS 480-601678/5 **Client Sample ID: Lab Control Sample** 

**Matrix: Water** 

**Analysis Batch: 601678** 

7 maryolo Batom co 1070	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	20.0	21.1		ug/L		106	52 - 162	
1,1-Dichloroethane	20.0	22.4		ug/L		112	59 - 155	
1,1-Dichloroethene	20.0	22.6		ug/L		113	1 - 234	
Benzene	20.0	22.3		ug/L		112	37 - 151	
Chlorobenzene	20.0	21.5		ug/L		107	37 - 160	
Chloroethane	20.0	21.9		ug/L		110	14 - 230	
Toluene	20.0	21.8		ug/L		109	47 - 150	
Trichloroethene	20.0	20.7		ug/L		104	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 130
Dibromofluoromethane (Surr)	103		75 - 123
4-Bromofluorobenzene (Surr)	104		76 - 123
Toluene-d8 (Surr)	105		77 - 120

Lab Sample ID: 480-191263-2 MS

**Matrix: Water** 

Trichloroethene

**Analysis Batch: 601678** 

	Sample Sample	Spike	MS MS				%Rec.	
Analyte	Result Qualifier	Added	Result Qua	alifier Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	ND ND	1600	1640	ug/L		102	52 - 162	
1,1-Dichloroethane	ND	1600	1840	ug/L		115	59 - 155	
1,1-Dichloroethene	ND	1600	1810	ug/L		113	1 - 234	
Benzene	ND	1600	1820	ug/L		114	37 - 151	
Chlorobenzene	ND	1600	1710	ug/L		107	37 - 160	
Chloroethane	ND	1600	2140	ug/L		133	14 - 230	
Toluene	ND	1600	1740	ug/L		109	47 - 150	

1640

ug/L

103

71 - 157

1600

MS MS

ND

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		68 - 130
Dibromofluoromethane (Surr)	100		75 <sub>-</sub> 123
4-Bromofluorobenzene (Surr)	102		76 - 123
Toluene-d8 (Surr)	104		77 - 120

Prep Type: Total/NA

**Client Sample ID: Influent** 

Prep Type: Total/NA

Eurofins TestAmerica, Buffalo

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

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

Lab

Mat

**Analysis Batch: 601678** 

b Sample ID: 480-191263-2 MSD	Client Sample ID: Influent
trix: Water	Prep Type: Total/NA
alvaia Patah, 604679	

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND		1600	1580		ug/L		99	52 - 162	3	15
1,1-Dichloroethane	ND		1600	1740		ug/L		109	59 - 155	6	15
1,1-Dichloroethene	ND		1600	1690		ug/L		105	1 - 234	7	15
Benzene	ND		1600	1700		ug/L		106	37 - 151	7	15
Chlorobenzene	ND		1600	1670		ug/L		104	37 - 160	2	15
Chloroethane	ND		1600	1950		ug/L		122	14 - 230	9	15
Toluene	ND		1600	1690		ug/L		106	47 - 150	3	15
Trichloroethene	ND		1600	1590		ug/L		99	71 - 157	3	15

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		68 - 130
Dibromofluoromethane (Surr)	99		75 - 123
4-Bromofluorobenzene (Surr)	102		76 - 123
Toluene-d8 (Surr)	104		77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-601731/1-A

**Matrix: Water** 

**Prep Type: Total Recoverable** Analysis Batch: 602414 Prep Batch: 601731 MB MB

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Iron	ND	50.0	ug/L	10/26/21 09:49	10/27/21 23:18	1

Lab Sample ID: LCS 480-601731/2-A **Matrix: Water** 

Analysis Batch: 602414

7 maryolo Batolii Coz+1+							op <b>D</b> .	atom 00 m
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	 10000	10330		ug/L		103	85 - 115	

Lab Sample ID: 480-191263 Matrix: Water	8-1 MS						F			e ID: Effluent Recoverable
Analysis Batch: 602414									Prep Ba	atch: 601731
_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Iron	449		10000	10580		ug/L		101	70 - 130	

Iron	449	10000	10580	ug/L	101	70 - 130		
Lab Sample ID: 480-191263	B-1 MSD				Clie	nt Sample l	D: Effluent	
Matrix: Water					Prep Ty	pe: Total R	ecoverable	,
Analysis Ratch: 602414						Drop Bat	ch: 604724	

Analysis batch: 602414									Prep B	alcn: ot	J1731	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Iron	449		10000	10700		ug/L		103	70 - 130	1	20	

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**Client Sample ID: Lab Control Sample Prep Type: Total Recoverable** 

**Prep Batch: 601731** 

**Client Sample ID: Method Blank** 

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: 480-191263-2 MS **Matrix: Water** 

Lab Sample ID: 480-191263-2 MSD

Analysis Batch: 602414

Analysis Batch: 602414

Sample Sample Result Qualifier **Analyte** Iron 1090

Spike Added 10000

Spike

Added

10000

Result Qualifier Unit 11490

MS MS

MSD MSD

Result Qualifier 11350

Unit ug/L

ug/L

D %Rec 103

%Rec.

Limits

70 - 130

**Client Sample ID: Influent** 

**Client Sample ID: Influent** 

**Prep Type: Total Recoverable** 

**Prep Batch: 601731** 

**Prep Type: Total Recoverable** 

%Rec.

Limits

70 - 130

%Rec

104

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 601731** 

RPD

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

Lab Sample ID: MB 480-602098/1

**Matrix: Water** 

**Matrix: Water** 

Analyte

Iron

**Analysis Batch: 602098** 

Analyte

Total Suspended Solids

MB MB Result Qualifier ND

Sample Sample

1090

Result Qualifier

RL 4.0 **RL** Unit mg/L Prepared

Dil Fac Analyzed 10/26/21 16:33

Prep Type: Total/NA

Prep Type: Total/NA

Lab Sample ID: LCS 480-602098/2

**Matrix: Water** 

**Analysis Batch: 602098** 

Analyte

Total Suspended Solids

Spike Added 2880

Spike

Added

7.00

LCS LCS Result Qualifier 2867

Unit mg/L

Unit

SU

%Rec 100 %Rec. Limits 88 - 110

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-602566/1

**Matrix: Water** 

рΗ

**Analysis Batch: 602566** 

Analyte

LCS LCS

7.0

Result Qualifier

%Rec. %Rec Limits 100 99 - 101

**RPD** 

Limit

20

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# **QC Association Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

### **GC/MS VOA**

### Analysis Batch: 601676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-601676/7	Method Blank	Total/NA	Water	624.1	
LCS 480-601676/5	Lab Control Sample	Total/NA	Water	624.1	
480-191263-2 MS	Influent	Total/NA	Water	624.1	
480-191263-2 MSD	Influent	Total/NA	Water	624.1	

### **Analysis Batch: 601678**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191263-1	Effluent	Total/NA	Water	624.1	
480-191263-2	Influent	Total/NA	Water	624.1	
480-191263-3	Trip Blank	Total/NA	Water	624.1	
MB 480-601678/7	Method Blank	Total/NA	Water	624.1	
LCS 480-601678/5	Lab Control Sample	Total/NA	Water	624.1	
480-191263-2 MS	Influent	Total/NA	Water	624.1	
480-191263-2 MSD	Influent	Total/NA	Water	624.1	

### Metals

### **Prep Batch: 601731**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191263-1	Effluent	Total Recoverable	Water	200.7	
480-191263-2	Influent	Total Recoverable	Water	200.7	
MB 480-601731/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-601731/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-191263-1 MS	Effluent	Total Recoverable	Water	200.7	
480-191263-1 MSD	Effluent	Total Recoverable	Water	200.7	
480-191263-2 MS	Influent	Total Recoverable	Water	200.7	
480-191263-2 MSD	Influent	Total Recoverable	Water	200.7	

### **Analysis Batch: 602414**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191263-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	601731
480-191263-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	601731
MB 480-601731/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	601731
LCS 480-601731/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	601731
480-191263-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	601731
480-191263-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	601731
480-191263-2 MS	Influent	Total Recoverable	Water	200.7 Rev 4.4	601731
480-191263-2 MSD	Influent	Total Recoverable	Water	200.7 Rev 4.4	601731

### **General Chemistry**

### **Analysis Batch: 602098**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191263-1	Effluent	Total/NA	Water	SM 2540D	
480-191263-2	Influent	Total/NA	Water	SM 2540D	
MB 480-602098/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-602098/2	Lab Control Sample	Total/NA	Water	SM 2540D	

### **Analysis Batch: 602566**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191263-1	Effluent	Total/NA	Water	SM 4500 H+ B	
480-191263-2	Influent	Total/NA	Water	SM 4500 H+ B	

Eurofins TestAmerica, Buffalo

Job ID: 480-191263-1

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### **QC Association Summary**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

**General Chemistry (Continued)** 

**Analysis Batch: 602566 (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-602566/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

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### **Lab Chronicle**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

Client Sample ID: Effluent Lab Sample ID: 480-191263-1

Date Collected: 10/21/21 09:30 Matrix: Water

Date Received: 10/21/21 14:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	601678	10/22/21 19:19	ATG	TAL BUF
Total Recoverable	Prep	200.7			601731	10/26/21 09:49	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	602414	10/27/21 23:25	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	602098	10/26/21 16:33	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	602566	10/28/21 20:36	KEB	TAL BUF

Client Sample ID: Influent Lab Sample ID: 480-191263-2

Date Collected: 10/21/21 10:00 Matrix: Water

Date Received: 10/21/21 14:35

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		80	601678	10/22/21 19:43	ATG	TAL BUF
Total Recoverable	Prep	200.7			601731	10/26/21 09:49	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	602414	10/27/21 23:44	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	602098	10/26/21 16:33	JGO	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	602566	10/28/21 20:37	KEB	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-191263-3

Date Collected: 10/21/21 00:00 Matrix: Water Date Received: 10/21/21 14:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	601678	10/22/21 20:06	ATG	TAL BUF

### Laboratory References:

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

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### **Accreditation/Certification Summary**

Client: Waste Management Job ID: 480-191263-1

Project/Site: ChemTrol Site - Monthly

### Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	F	Program	Identification Number	Expiration Date
New York	1	NELAP	10026	04-01-22
The following analytes the agency does not o		port, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
624.1		Water	o-Chlorotoluene	
SM 4500 H+ B		Water	рН	
SM 4500 H+ B		Water	Temperature	

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### **Method Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-191263-1

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	рН	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 TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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### **Sample Summary**

Client: Waste Management Project/Site: ChemTrol Site - Monthly Job ID: 480-191263-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-191263-1	Effluent	Water	10/21/21 09:30	10/21/21 14:35
480-191263-2	Influent	Water	10/21/21 10:00	10/21/21 14:35
480-191263-3	Trip Blank	Water	10/21/21 00:00	10/21/21 14:35

**Environment Testing** 

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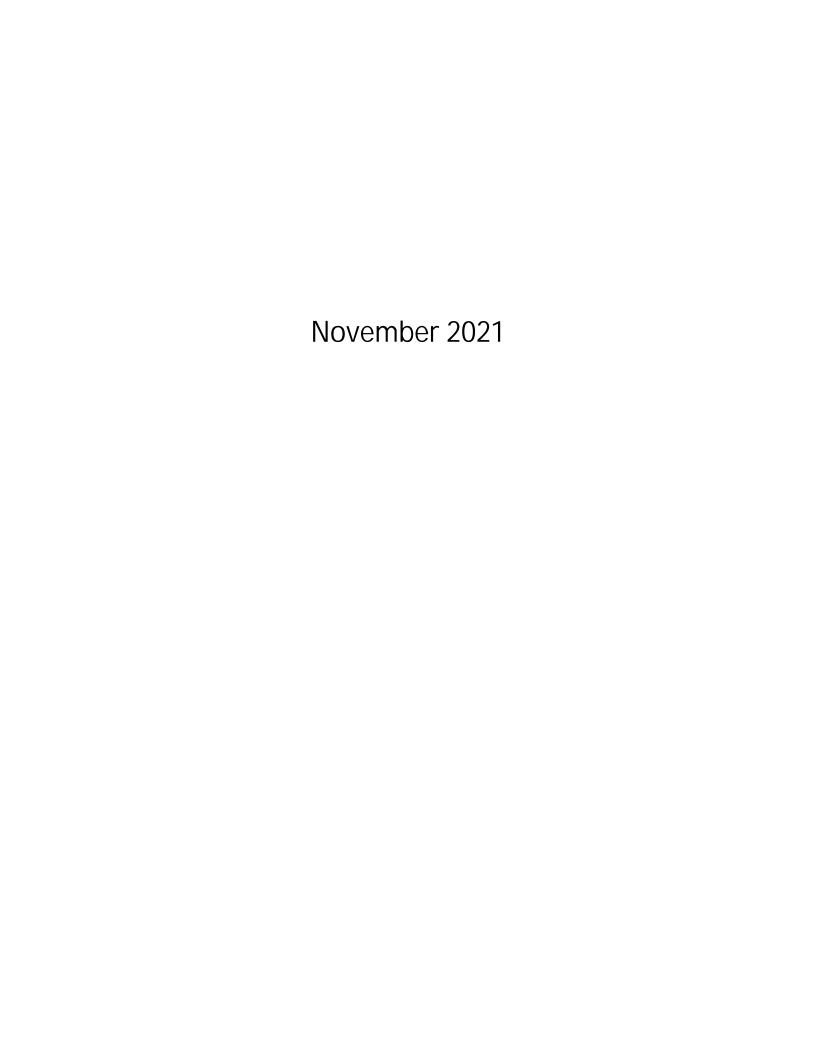
Chain of Custody Record Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

**Eurofins TestAmerica, Buffalo** 

10 Hazelwood Drive

T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Ver: 06/08/2021 N - None O - AsNaO2 P - Na2O4S O - Na2SO3 R - Na2S2O3 S - H2SO4 Months Company Company Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Monts COC No: 480-161930-28522.1 Preservation Codes: G - Amchlor H - Ascorbic Acid 480-191263 Chain of Custody A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH Page: Page 1 of 1 Job#: J - Di Water K - EDTA iners Date/Time: | Date/Time: Date/Time: Date/Time: Method of Shipment Carrier Tracking No(s): State of Origin: **Analysis Requested** Cooler Temperature(s) °C and Other Remarks Special Instructions/QC Requirements: E-Mail: Ryan.VanDette@Eurofinset.com Hd - +H 009#WS 13 spilos bebnageus leto1 - 00% Received by: Received by: Received by: Lab PM: VanDette, Ryan T 200.7 - Iron > Perform MS/H in (Y = or No) ζ ime: A Ecomo Field Filtered Sample (Yes or No) 3 Preservation Code: Matrix Water Water Water Company JE 30 Radiological Type (C=comp, G=grab) Consilly Sample 9 5 1435 ompliance Project: A Yes A No A 0250 V Sample 0001 Time 012/10/01 Date Unknown AT Requested (days): **Due Date Requested** 12/12/01 12/12/01 Sample Date 2/12/0 10132351 Project Name: Project Was Event Desc: ChemTrol Monthly Groundwat 48002447 Date/Time Poison B Skin Irritant Deliverable Requested: I, II, III, IV, Other (specify) Custody Seal No. fullytown Landfill 444 Oxford Valley Road 215-269-2114(Tel) 215-699-8315(Fax) Empty Kit Relinquished by: Custody Seals Intact: Client Information Sample Identification Company: Waste Management cmoose@wm.com Client Contact: Chad Moose elinquished by: quished by State, Zip: PA, 19067 Morrisville Trip Blank New York Effluent Influent Address:



### **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.

Service by: Sean P. Connelly Weather/Temperature: Cloudy, 36 F

### <u>General</u>

Date: <u>11/19/2021</u> Arrival Time: <u>08:3</u>	0 Depart	ture Time: <u>09:50</u>
Reason for Service: <u>Inspect system a</u>	nd perform	n monthly sampling
<b>Inspection Items:</b>	OK:	<b>Comments:</b>
Site Appearance/Condition	<u>X</u>	See Notes/Explanations section.
Building Exterior	v	Was distal descript bands appeared
Overhead Door	<u>X</u>	Wood lintel decaying, header exposed.
Siding  Reaf and Disabages Pine	<u>X</u>	Metal trim missing from lintel.
Roof and Discharge Pipe	<u>X</u>	
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	

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	<u>X</u>	1 map to containly be the
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	
	X	

X

Outfall

Cleanout

Instrumentation/Readings:	
EW-1	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	Inches
Flow Meter Reading	Not Working Gallons
EW-2	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	
Flow Meter Reading	<u>28,528,522</u> Gallons
EW-3	
Pumping Rate	OGPM (see Notes section)
Water Level Above Transducer	Inches
Flow Meter Reading	<u>15,696,383</u> Gallons
Air Stripper	
Stripper Blower Pressure	Inches H2O
Effluent Flow	
Total System Meter Reading	<u>72,554,656</u> 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 (3Q2021) was collected on September 9, 2021.

The air stripper trays were last mechanically cleaned on October 11, 2021.

The monthly samples were collected today, November 19, 2021, by AECOM.

Table 1
November 19, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

		Conce	ntration	Mass Loading			
Parameters	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow <sup>*</sup> pH	1,020 7.4	1,020 8.0	144,000 6.5 to 8.5	gpd standard units	NA NA	NA NA	NA NA
Toluene Chlorobenzene cis-1,2-Dichloroethene Benzene 1,1,1-Trichloroethane Chloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trichloroethene o-Chlorotoluene	< 36 < 38 < 46 < 48 < 31 < 70 < 47 < 68 < 48 3,000	< 5.0 < 5.0	5 10 10 5 10 10 10 10 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	< 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000 < 0.0000	0.006 0.012 0.012 0.006 0.012 0.012 0.012 0.012 0.012 0.012	lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day
Iron - Total TSS	1,330 < 4.0	823 < 4.0	3,000 20	ug/L mg/L	0.01 < 0.03	3.61	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.

<sup>\*</sup> Average daily flow as measured October 21, 2021 through November 19, 2021.

### Table 2 November 19, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

Instrumer	ntation/Readings:	Current Report 11/19/2021	units	Prior Report 10/21/2021	
2,,, 1	Pumping Rate	0	GPM	0	
	Water Level Above Transducer	297	Inches	193	
	Flow Meter Reading	NW	gallons	NW	
EW-2					
	Pumping Rate	0	GPM	0	
	Water Level Above Transducer	192	Inches	175	
	Flow Meter Reading	28,528,522	gallons	28,528,522	
EW-3					
	Pumping Rate	0	GPM	0	
	Water Level Above Transducer	215	Inches	193	
	Flow Meter Reading	15,696,383	gallons	15,696,383	
Air Strippe	er				
	Stripper Blower Pressure	21.0	inches H <sub>2</sub> O	16.5	
Effluent F	low				
•	Total System Meter Reading	72,554,656	gallons	72,526,092	
	Average System Flow Since Prior Report	1,020	gpd		
		42.5	gph		
		0.7	gpm		
	Influent o-Chlorotoluene concentration	3,000	ug/L		
	Current month mass removal	0.3	kilograms		

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 480-192709-1

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: 11/29/2021 5:09:58 PM

Ryan VanDette, Project Manager II

(716)504-9830

 $Ryan. Van Dette @\,Euro finset.com$ 

.....LINKS .....

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

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

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

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Client: Waste Management Project/Site: ChemTrol Site - Monthly Laboratory Job ID: 480-192709-1

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# **Definitions/Glossary**

Client: Waste Management Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

### **Qualifiers**

### **General Chemistry**

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

### Glossary

MDA

RER

Ciossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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"

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)

Minimum Detectable Activity (Radiochemistry)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Error Ratio (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

Eurofins TestAmerica, Buffalo

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q

10

12

1:

### **Case Narrative**

Client: Waste Management

Job ID: 480-192709-1 Project/Site: ChemTrol Site - Monthly

Job ID: 480-192709-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-192709-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/19/2021 10:05 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 2.7° C.

#### **GC/MS VOA**

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-192709-2). 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.

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 (480-192709-1), Influent (480-192709-2) and (480-192709-C-1 DU).

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

Lab Sample ID: 480-192709-1

Job ID: 480-192709-1

**Client Sample ID: Effluent** 

Г							
Analyte	Result	Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Iron	823		50.0	ug/L	1	200.7 Rev 4.4	Total
							Recoverable
pH	8.0	HF	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	22.2	HF	0.001	Degrees C	1	SM 4500 H+ B	Total/NA

CI

Client Sample ID: Influent	Lab Sample ID: 480-192709-2
-	

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D M	ethod	Prep Type
o-Chlorotoluene	1700		26		ug/L	80	62	24.1	Total/NA
Iron	1330		50.0		ug/L	1	20	00.7 Rev 4.4	Total
									Recoverable
рН	7.4	HF	0.1		SU	1	SI	M 4500 H+ B	Total/NA
Temperature	22.4	HF	0.001		Degrees C	1	SI	M 4500 H+ B	Total/NA

**Client Sample ID: Trip Blank** 

Lab Sample ID: 480-192709-3

No Detections.

11/29/2021

Client: Waste Management Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

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

Result Qualifier

**Client Sample ID: Effluent** Date Collected: 11/19/21 09:00

Date Received: 11/19/21 10:05

Analyte

Lab Sample ID: 480-192709-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			11/22/21 13:47	1
1,1-Dichloroethane	ND		5.0		ug/L			11/22/21 13:47	1
1,1-Dichloroethene	ND		5.0		ug/L			11/22/21 13:47	1
Benzene	ND		5.0		ug/L			11/22/21 13:47	1
Chlorobenzene	ND		5.0		ug/L			11/22/21 13:47	1
Chloroethane	ND		5.0		ug/L			11/22/21 13:47	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/22/21 13:47	1
Toluene	ND		5.0		ug/L			11/22/21 13:47	1
Trichloroethene	ND		5.0		ug/L			11/22/21 13:47	1
o-Chlorotoluene	ND		5.0		ug/L			11/22/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		68 - 130			-		11/22/21 13:47	1
Dibromofluoromethane (Surr)	94		75 - 123					11/22/21 13:47	1
4-Bromofluorobenzene (Surr)	93		76 - 123					11/22/21 13:47	1
Toluene-d8 (Surr)	102		77 - 120					11/22/21 13:47	1

Iron	823		50.0		ug/L		11/24/21 09:53	11/24/21 23:00	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			11/24/21 13:14	1
рН	8.0	HF	0.1		SU			11/23/21 14:34	1
Temperature	22.2	HE	0.001		Degrees C			11/23/21 14:34	1

RL

MDL Unit

Prepared

Analyzed

11/29/2021

Job ID: 480-192709-1 Client: Waste Management

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Influent** 

Lab Sample ID: 480-192709-2

Matrix: Water

Date Collected: 11/19/21 09:20 Date Received: 11/19/21 10:05

Method: 624.1 - Volatile Organ									
Analyte	Result	Qualifier	RL	MDL	Unit	_ D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		31		ug/L			11/22/21 14:10	80
1,1-Dichloroethane	ND		47		ug/L			11/22/21 14:10	80
1,1-Dichloroethene	ND		68		ug/L			11/22/21 14:10	80
Benzene	ND		48		ug/L			11/22/21 14:10	80
Chlorobenzene	ND		38		ug/L			11/22/21 14:10	80
Chloroethane	ND		70		ug/L			11/22/21 14:10	80
cis-1,2-Dichloroethene	ND		46		ug/L			11/22/21 14:10	80
Toluene	ND		36		ug/L			11/22/21 14:10	80
Trichloroethene	ND		48		ug/L			11/22/21 14:10	80
o-Chlorotoluene	1700		26		ug/L			11/22/21 14:10	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	89		68 - 130					11/22/21 14:10	80
Dibromofluoromethane (Surr)	97		75 - 123					11/22/21 14:10	80
4-Bromofluorobenzene (Surr)	93		76 - 123					11/22/21 14:10	80
Toluene-d8 (Surr)	98		77 - 120					11/22/21 14:10	8
Method: 200.7 Rev 4.4 - Metals	s (ICP) - Total Red	coverable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Iron	1330		50.0		ug/L		11/24/21 09:53	11/24/21 23:03	
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	ND		4.0		mg/L			11/24/21 13:14	-
рН	7.4	HF	0.1		SU			11/23/21 14:37	
Temperature	22.4	HE	0.001		Degrees C			11/23/21 14:37	

Client: Waste Management Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Trip Blank** 

Lab Sample ID: 480-192709-3

Matrix: Water

Date Collected: 11/19/21 00:00 Date Received: 11/19/21 10:05

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			11/22/21 14:33	1
1,1-Dichloroethane	ND		5.0		ug/L			11/22/21 14:33	1
1,1-Dichloroethene	ND		5.0		ug/L			11/22/21 14:33	1
Benzene	ND		5.0		ug/L			11/22/21 14:33	1
Chlorobenzene	ND		5.0		ug/L			11/22/21 14:33	1
Chloroethane	ND		5.0		ug/L			11/22/21 14:33	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/22/21 14:33	1
Toluene	ND		5.0		ug/L			11/22/21 14:33	1
Trichloroethene	ND		5.0		ug/L			11/22/21 14:33	1
o-Chlorotoluene	ND		5.0		ug/L			11/22/21 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		68 - 130			_		11/22/21 14:33	1
Dibromofluoromethane (Surr)	95		75 <sub>-</sub> 123					11/22/21 14:33	1
4-Bromofluorobenzene (Surr)	97		76 - 123					11/22/21 14:33	1
Toluene-d8 (Surr)	100		77 - 120					11/22/21 14:33	1

11/29/2021

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Job ID: 480-192709-1

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: MB 480-606023/8

**Matrix: Water** 

Analysis Batch: 606023

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB I	MB							
Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND		5.0		ug/L			11/22/21 13:01	1
1,1-Dichloroethane	ND		5.0		ug/L			11/22/21 13:01	1
1,1-Dichloroethene	ND		5.0		ug/L			11/22/21 13:01	1
Benzene	ND		5.0		ug/L			11/22/21 13:01	1
Chlorobenzene	ND		5.0		ug/L			11/22/21 13:01	1
Chloroethane	ND		5.0		ug/L			11/22/21 13:01	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			11/22/21 13:01	1
Toluene	ND		5.0		ug/L			11/22/21 13:01	1
Trichloroethene	ND		5.0		ug/L			11/22/21 13:01	1
o-Chlorotoluene	ND		5.0		ug/L			11/22/21 13:01	1

MB MB

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	68 - 130		11/22/21 13:01	1
Dibromofluoromethane (Surr)	98	75 - 123		11/22/21 13:01	1
4-Bromofluorobenzene (Surr)	98	76 - 123		11/22/21 13:01	1
Toluene-d8 (Surr)	100	77 - 120		11/22/21 13:01	1

Lab Sample ID: LCS 480-606023/6

**Matrix: Water** 

Analysis Batch: 606023

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	20.0	21.5		ug/L		107	52 - 162	
1,1-Dichloroethane	20.0	20.7		ug/L		103	59 <sub>-</sub> 155	
1,1-Dichloroethene	20.0	22.1		ug/L		110	1 - 234	
Benzene	20.0	22.0		ug/L		110	37 - 151	
Chlorobenzene	20.0	21.6		ug/L		108	37 _ 160	
Chloroethane	20.0	15.7		ug/L		78	14 - 230	
Toluene	20.0	21.8		ug/L		109	47 - 150	
Trichloroethene	20.0	21.0		ug/L		105	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		68 - 130
Dibromofluoromethane (Surr)	97		75 - 123
4-Bromofluorobenzene (Surr)	99		76 - 123
Toluene-d8 (Surr)	99		77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-606370/1-A

**Matrix: Water** 

Analyte

Iron

**Analysis Batch: 606632** 

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 606370

MB MB Result Qualifier MDL Unit Prepared Analyzed ND 50.0 ug/L 11/24/21 09:53 11/24/21 21:26

Eurofins TestAmerica, Buffalo

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11/29/2021

Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: LCS 480-606370/2-A

**Matrix: Water** 

Analysis Batch: 606632

Client: Waste Management

**Client Sample ID: Lab Control Sample Prep Type: Total Recoverable** 

Prep Batch: 606370

Spike LCS LCS Added Analyte Result Qualifier %Rec Limits Unit Iron 10000 10130 ug/L 101 85 - 115

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

Lab Sample ID: MB 480-606522/1

**Matrix: Water** 

Analysis Batch: 606522

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Result Qualifier

RL RL Unit Dil Fac D Prepared Analyzed 4.0 ND 11/24/21 13:14 **Total Suspended Solids** mg/L

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 480-606522/2

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 606522

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 331 327.2 mg/L 88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-606321/23 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 606321

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

Lab Sample ID: 480-192709-1 DU

**Matrix: Water** 

Analysis Batch: 606321

DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier Unit D **RPD** Limit рН 8.0 HF 7.9 SU 5 22.2 HF 22.5 Degrees C 10 Temperature

Eurofins TestAmerica, Buffalo

11/29/2021

Client Sample ID: Effluent

Prep Type: Total/NA

# **QC Association Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-192709-1

### **GC/MS VOA**

### Analysis Batch: 606023

Lab Sample ID 480-192709-1	Client Sample ID  Effluent	Prep Type Total/NA	Matrix Water	Method 624.1	Prep Batch
480-192709-2	Influent	Total/NA	Water	624.1	
480-192709-3	Trip Blank	Total/NA	Water	624.1	
MB 480-606023/8	Method Blank	Total/NA	Water	624.1	
LCS 480-606023/6	Lab Control Sample	Total/NA	Water	624.1	

### Metals

### **Prep Batch: 606370**

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	480-192709-1	Effluent	Total Recoverable	Water	200.7	
	480-192709-2	Influent	Total Recoverable	Water	200.7	
	MB 480-606370/1-A	Method Blank	Total Recoverable	Water	200.7	
Į	LCS 480-606370/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

### Analysis Batch: 606632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192709-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	606370
480-192709-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	606370
MB 480-606370/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	606370
LCS 480-606370/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	606370

### **General Chemistry**

### Analysis Batch: 606321

Lab Sample ID 480-192709-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
480-192709-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-606321/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
480-192709-1 DU	Effluent	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 606522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192709-1	Effluent	Total/NA	Water	SM 2540D	
480-192709-2	Influent	Total/NA	Water	SM 2540D	
MB 480-606522/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-606522/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Eurofins TestAmerica, Buffalo

### Lab Chronicle

Client: Waste Management Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Effluent** 

Date Received: 11/19/21 10:05

Lab Sample ID: 480-192709-1 Date Collected: 11/19/21 09:00

**Matrix: Water** 

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 624.1 Total/NA Analysis 606023 11/22/21 13:47 ATG TAL BUF Total Recoverable Prep 200.7 606370 11/24/21 09:53 ADM TAL BUF Total Recoverable Analysis 200.7 Rev 4.4 606632 11/24/21 23:00 AMH TAL BUF 1 Total/NA Analysis SM 2540D 606522 11/24/21 13:14 TAL BUF 1 EJL Total/NA Analysis SM 4500 H+ B 606321 11/23/21 14:34 DLG TAL BUF 1

**Client Sample ID: Influent** 

Lab Sample ID: 480-192709-2 Date Collected: 11/19/21 09:20

**Matrix: Water** 

Date Received: 11/19/21 10:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		80	606023	11/22/21 14:10	ATG	TAL BUF
Total Recoverable	Prep	200.7			606370	11/24/21 09:53	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	606632	11/24/21 23:03	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	606522	11/24/21 13:14	EJL	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	606321	11/23/21 14:37	DLG	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-192709-3 Date Collected: 11/19/21 00:00

**Matrix: Water** 

Date Received: 11/19/21 10:05

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	606023	11/22/21 14:33	ATG	TAL BUF

### **Laboratory References:**

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

# **Accreditation/Certification Summary**

Client: Waste Management Job ID: 480-192709-1

Project/Site: ChemTrol Site - Monthly

### **Laboratory: Eurofins TestAmerica, Buffalo**

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

uthority	Pr	ogram	Identification Number	<b>Expiration Date</b>
lew York	NE	ELAP	10026	04-01-22
The following analytes the agency does not off	•	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
0 ,		Matrix	Analyte	
Analysis Method 624.1	Prep Method	Matrix Water	Analyte o-Chlorotoluene	
Analysis Method				

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# **Method Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-192709-1

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

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# **Sample Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-192709-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192709-1	Effluent	Water	11/19/21 09:00	11/19/21 10:05
480-192709-2	Influent	Water	11/19/21 09:20	11/19/21 10:05
480-192709-3	Trip Blank	Water	11/19/21 00:00	11/19/21 10:05

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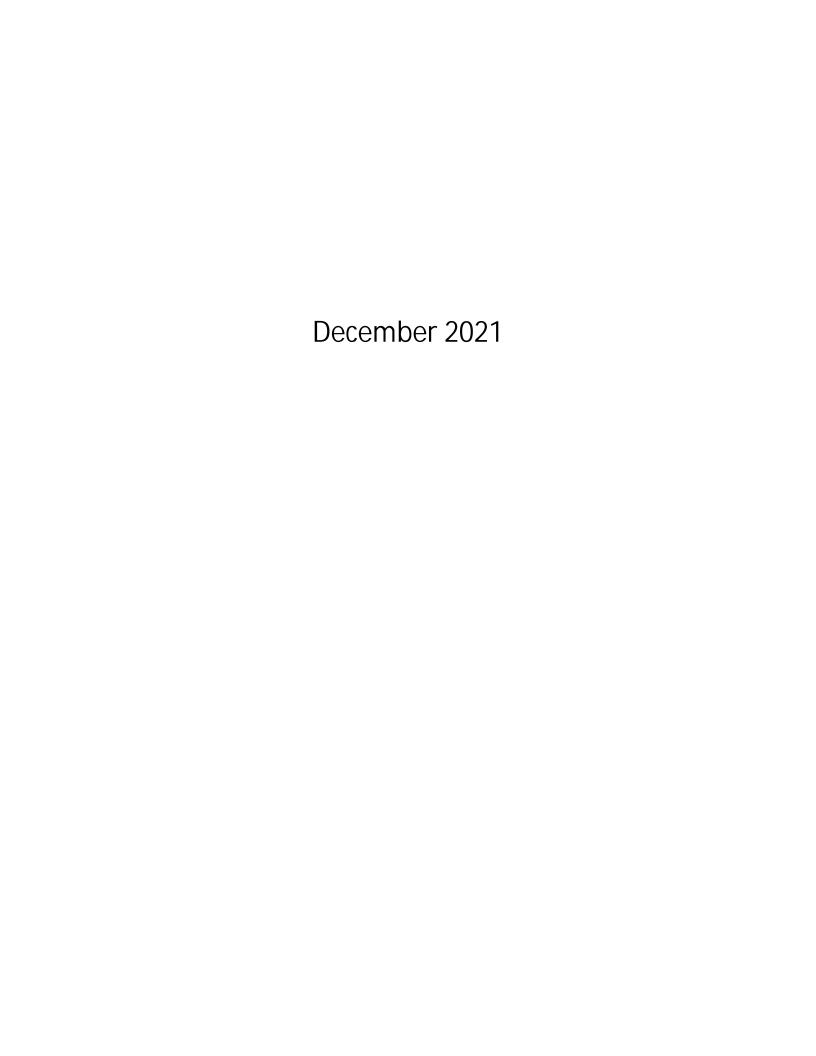
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Eurofins TestAmerica, Buffalo											•	i	
On Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991		Shain o	of Cust	Chain of Custody Record	900	Þ					na 💸	& eurotins Envir	Environment Testing America
Client Information	Sampler:	pler: 7. Com	1/2	Lab PN VanD	Lab PM: VanDette, Rvan T	an T			Carrier Tra	Carrier Tracking No(s):	COC No	COC No:	
Client Contact: Chad Moose	Phone: 2110	792.0	ats	E-Mail:	, dacy	E-Mail:	100		State of Origin:	rigin:	Page:	1.77697-06701	
Company: Waste Management	<u> </u>	VI.	15	l yall	ValiDe	ma (ma)	olinser	Com	_		Page 1 of Job #:	of 1	
Address: Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:	ted:				1		Anaiysis	Analysis Kequested		Preserv	Preservation Codes:	
City: Morrisville State, Zio.	TAT Requested (days):	lays):	0								A - HCL B - NaO C - Zn A	A - HCL M - He B - NaOH N - No C - Zn Acetate O - ASI	M - Hexane N - None O - AsNaO2
PA, 19067	Compliance Project:	∆ Yes	A No								D - Nitric		104S
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO#: 10132351				(6						F - MeO G - Amo		\$203 \$04
Email: cmoose@wm.com	:MO#:						sp						Dodecahydrate
Project Name: Project Name: ChemTrol Monthly Groundwat 48002447	Project #: at 48002447					1	ilo2 b				iners J-DI Water K-EDTA		V - MCAA W - pH 4-5
Site: New York	SSOW#:					Þ							(Specify)
		Sample	Sample Type (C=comp,	Matrix (wwwater, S=solid.	d Filtered S MS/M moof	7 - Iron 1_PREC - 62	uS IstoT - Q(				l Number o		
Sample Identification	Sample Date	Time		÷	Per							Special Instructions/Note:	ons/Note:
Effluent			rieservation Code:	on Code:		∢ .	z				X	$\left  \right $	
	12/2/11	0000	3	Water	2	~	-						
Influent	12/51/11	02 50	5	Water	5	1	-						
Trip Blank	12/61/11			Water	3	-							K
										48	480-192709 Chain of Custody	of Custody	
Possible Hazard Identification													
Non-Hazard Plammable Skin Irritant Poison B	son B Unknown	Ш	Radiological		Sam	o <b>le Disp</b> Return	ole Disposal ( A 1 Return To Client	A fee may	be assessed if san	if samples a	e retained long	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I. II, III, IV, Other (specify)					Spec	ial Instri	uctions/	Special Instructions/QC Requirements:	ments:	y Lab	Archive For	Months	ths
Empty Kit Relinquished by:		Date:			Time:				Meth	Method of Shipment:			
Kenthanea of Comments of Comme	Date/Time: /1/17)	00/2	6	Company		Received by:				Date/Time:		Company	νη
remiquation by:	Date/Time:		0	Company	<u>.</u>	Received by				Date/Time:		Company	ny
Reinquished by: Cristodiv Scale Intoxic	.Date/Time:		0	Company	α	Received by:	K			Date/Jime:	100/ 15	and su	dia
A Yes A No					0	ooler Ten	nperature	Cooler Temperature(s) °C and Other Remarks.	ier Remarks:	27 5	TCF		
												0/	200

Eurofins TestAmerica, Buffalo



### 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.

Service by: Emily Au Weather/Temperature: light rain, 40 F

### **General**

Date: <u>12/2/2021</u> Arrival Time: <u>11:00</u>	Departu	re Time: <u>12:00</u>
Reason for Service: <u>Inspect system ar</u>	nd perform	monthly sampling
<b>Inspection Items:</b>	<u>OK:</u>	Comments:
Site Appearance/Condition	<u>X</u>	See Notes/Explanations section.
Building Exterior  Overhead Door	X	Wood lintel decaying, header exposed.
Siding	<u>X</u>	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	<u>X</u>	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	
	X	

 $\mathbf{X}$ 

X

Discharge flowing in batches every 10-15 minutes

Outfall

Cleanout

Instrumentation/Readings:	
EW-1	
Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	<u>292</u> Inches
Flow Meter Reading	Not Working Gallons
EW-2	
Pumping Rate	O GPM (see Notes section)
Water Level Above Transducer	<u>184</u> Inches
Flow Meter Reading	<u>28,528,920</u> Gallons
EW-3	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	Inches
Flow Meter Reading	<u>15,696,383</u> Gallons
Air Stripper	
Stripper Blower Pressure	14Inches H2O
Effluent Flow	
Total System Meter Reading	<u>72,578,625</u> 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 air stripper trays were last mechanically cleaned on December 1, 2021.

The monthly samples were collected today, December 2, 2021, by AECOM.

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

Table 1
December 2, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

		Conce	ntration	Concentration				
Parameters	Influent	Effluent Discharge Units Limitations		Units	Effluent	Discharge Limitations	Units	
Flow <sup>*</sup> pH	1,844 7.4	1,844 7.8	144,000 6.5 to 8.5	gpd standard units	NA NA	NA NA	NA NA	
Toluene Chlorobenzene cis-1,2-Dichloroethene Benzene 1,1,1-Trichloroethane Chloroethane 1,1-Dichloroethane 1,1-Dichloroethene Trichloroethene o-Chlorotoluene	< 36 < 38 < 46 < 48 < 31 < 70 < 47 < 68 < 48 2,100	< 5.0 < 5.0	5 10 10 5 10 10 10 10 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	< 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001 < 0.0001	0.006 0.012 0.012 0.006 0.012 0.012 0.012 0.012 0.012 0.012	lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day lbs/day	
Iron - Total TSS	1,320	916	3,000 20	ug/L mg/L	0.01 < 0.06	3.61	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 19, 2021 through December 2, 2021.

# Table 2 December 2, 2021 Summary of Influent and Effluent Data

### Chem-Trol Site Town of Hamburg, New York

Instrumer	ntation/Readings:	Current Report 12/2/2021	units	Prior Report 11/19/2021
2,, 1	Pumping Rate	0	GPM	0
	Water Level Above Transducer	292	Inches	297
	Flow Meter Reading	NW	gallons	NW
EW-2				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	184	Inches	192
	Flow Meter Reading	28,528,920	gallons	28,528,522
EW-3				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	215	Inches	215
	Flow Meter Reading	15,696,383	gallons	15,696,383
Air Strippe	er			
	Stripper Blower Pressure	14.0	inches H <sub>2</sub> O	21.0
Effluent F	low			
	Total System Meter Reading	72,578,625	gallons	72,554,656
	Average System Flow Since Prior Report	1,844	gpd	
		76.8	gph	
		1.3	gpm	
	Influent o-Chlorotoluene concentration	2,100	ug/L	
	Current month mass removal	0.2	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 480-192968-1

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: 12/13/2021 4:11:27 PM

Ryan VanDette, Project Manager II (716)504-9830

Ryan.VanDette@Eurofinset.com

----- LINKS -----

Review your project results through

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**Have a Question?** 



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www.eurofinsus.com/Env

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

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

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

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Client: Waste Management Project/Site: ChemTrol Site - Monthly Laboratory Job ID: 480-192968-1

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### **Definitions/Glossary**

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

### **Qualifiers**

### **General Chemistry**

Qualifier **Qualifier Description** 

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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

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) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

Eurofins TestAmerica, Buffalo

Page 3 of 16

### **Case Narrative**

Client: Waste Management

Job ID: 480-192968-1 Project/Site: ChemTrol Site - Monthly

Job ID: 480-192968-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-192968-1

### Comments

No additional comments.

### Receipt

The samples were received on 12/2/2021 12:35 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 2.4° C.

#### **GC/MS VOA**

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-192968-2). 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.

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 (480-192968-1) and Influent (480-192968-2).

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

**Client Sample ID: Effluent** Lab Sample ID: 480-192968-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Iron	916	50.0	ug/L		200.7 Rev 4.4	Total
						Recoverable
рН	7.8 HF	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	21.7 HF	0.001	Degrees C	1	SM 4500 H+ B	Total/NA

**Client Sample ID: Influent** Lab Sample ID: 480-192968-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	2100		26		ug/L	80	_	624.1	Total/NA
Iron	1320		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	21.8	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

**Client Sample ID: Trip Blank** Lab Sample ID: 480-192968-3

No Detections.

This Detection Summary does not include radiochemical test results.

12/13/2021

Job ID: 480-192968-1

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

Client Sample ID: Effluent Date Collected: 12/02/21 11:30

Date Received: 12/02/21 12:35

Lab Sample ID: 480-192968-1

Matrix: Water

Analyte	Result Qualifi	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND	5.0		ug/L			12/03/21 18:28	1
1,1-Dichloroethane	ND	5.0		ug/L			12/03/21 18:28	1
1,1-Dichloroethene	ND	5.0		ug/L			12/03/21 18:28	1
Benzene	ND	5.0		ug/L			12/03/21 18:28	1
Chlorobenzene	ND	5.0		ug/L			12/03/21 18:28	1
Chloroethane	ND	5.0		ug/L			12/03/21 18:28	1
cis-1,2-Dichloroethene	ND	5.0		ug/L			12/03/21 18:28	1
Toluene	ND	5.0		ug/L			12/03/21 18:28	1
Trichloroethene	ND	5.0		ug/L			12/03/21 18:28	1
o-Chlorotoluene	ND	5.0		ug/L			12/03/21 18:28	1
Surrogate	%Recovery Qualifi	ier Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		68 - 130	_		12/03/21 18:28	1
Dibromofluoromethane (Surr)	103		75 - 123			12/03/21 18:28	1
4-Bromofluorobenzene (Surr)	94		76 - 123			12/03/21 18:28	1
Toluene-d8 (Surr)	97		77 - 120			12/03/21 18:28	1

Method: 200.7 Rev 4.4 - Metals (IC	P) - Total Rec	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	916		50.0		ug/L		12/08/21 08:27	12/09/21 02:28	1
General Chemistry									

_									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			12/06/21 13:38	1
рН	7.8	HF	0.1		SU			12/09/21 16:07	1
Temperature	21.7	HF	0.001		Degrees C			12/09/21 16:07	1

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12/13/2021

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Influent** 

Lab Sample ID: 480-192968-2

Matrix: Water

Date Collected: 12/02/21 11:45 Date Received: 12/02/21 12:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		31		ug/L			12/03/21 18:53	80
1,1-Dichloroethane	ND		47		ug/L			12/03/21 18:53	80
1,1-Dichloroethene	ND		68		ug/L			12/03/21 18:53	80
Benzene	ND		48		ug/L			12/03/21 18:53	80
Chlorobenzene	ND		38		ug/L			12/03/21 18:53	80
Chloroethane	ND		70		ug/L			12/03/21 18:53	80
cis-1,2-Dichloroethene	ND		46		ug/L			12/03/21 18:53	80
Toluene	ND		36		ug/L			12/03/21 18:53	80
Trichloroethene	ND		48		ug/L			12/03/21 18:53	80
o-Chlorotoluene	2100		26		ug/L			12/03/21 18:53	80
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		68 - 130					12/03/21 18:53	80
Dibromofluoromethane (Surr)	102		75 - 123					12/03/21 18:53	80
4-Bromofluorobenzene (Surr)	94		76 - 123					12/03/21 18:53	80
Toluene-d8 (Surr)	96		77 - 120					12/03/21 18:53	80
Method: 200.7 Rev 4.4 - Metals	s (ICP) - Total Red	overable							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1320		50.0		ug/L		12/08/21 08:27	12/09/21 02:57	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			12/06/21 13:38	1
рН	7.1	HF	0.1		SU			12/09/21 16:09	1
Temperature		HF	0.001		Degrees C			12/09/21 16:09	1

12/13/2021

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Trip Blank** 

Lab Sample ID: 480-192968-3

Matrix: Water

Date Collected: 12/02/21 00:00 Date Received: 12/02/21 12:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	MD		5.0		ug/L			12/03/21 19:16	1
1,1-Dichloroethane	ND		5.0		ug/L			12/03/21 19:16	1
1,1-Dichloroethene	ND		5.0		ug/L			12/03/21 19:16	1
Benzene	ND		5.0		ug/L			12/03/21 19:16	1
Chlorobenzene	ND		5.0		ug/L			12/03/21 19:16	1
Chloroethane	ND		5.0		ug/L			12/03/21 19:16	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/03/21 19:16	1
Toluene	ND		5.0		ug/L			12/03/21 19:16	1
Trichloroethene	ND		5.0		ug/L			12/03/21 19:16	1
o-Chlorotoluene	ND		5.0		ug/L			12/03/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 130			-		12/03/21 19:16	1
Dibromofluoromethane (Surr)	101		75 - 123					12/03/21 19:16	1
4-Bromofluorobenzene (Surr)	91		76 - 123					12/03/21 19:16	1
Toluene-d8 (Surr)	97		77 - 120					12/03/21 19:16	1

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Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: MB 480-607544/8

**Matrix: Water** 

Analysis Batch: 607544

Client: Waste Management

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			12/03/21 16:09	1
1,1-Dichloroethane	ND		5.0		ug/L			12/03/21 16:09	1
1,1-Dichloroethene	ND		5.0		ug/L			12/03/21 16:09	1
Benzene	ND		5.0		ug/L			12/03/21 16:09	1
Chlorobenzene	ND		5.0		ug/L			12/03/21 16:09	1
Chloroethane	ND		5.0		ug/L			12/03/21 16:09	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			12/03/21 16:09	1
Toluene	ND		5.0		ug/L			12/03/21 16:09	1
Trichloroethene	ND		5.0		ug/L			12/03/21 16:09	1
o-Chlorotoluene	ND		5.0		ug/L			12/03/21 16:09	1

MB MB

MD MD

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89	68 - 130		12/03/21 16:09	1
Dibromofluoromethane (Surr)	101	75 - 123		12/03/21 16:09	1
4-Bromofluorobenzene (Surr)	93	76 <sub>-</sub> 123		12/03/21 16:09	1
Toluene-d8 (Surr)	95	77 - 120		12/03/21 16:09	1

Lab Sample ID: LCS 480-607544/6

**Matrix: Water** 

Analysis Batch: 607544

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	20.0	18.3		ug/L		91	52 - 162	
1,1-Dichloroethane	20.0	18.9		ug/L		95	59 - 155	
1,1-Dichloroethene	20.0	19.3		ug/L		96	1 - 234	
Benzene	20.0	20.6		ug/L		103	37 _ 151	
Chlorobenzene	20.0	20.3		ug/L		101	37 - 160	
Chloroethane	20.0	14.9		ug/L		75	14 - 230	
Toluene	20.0	19.5		ug/L		98	47 _ 150	
Trichloroethene	20.0	19.1		ug/L		95	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		68 - 130
Dibromofluoromethane (Surr)	97		75 - 123
4-Bromofluorobenzene (Surr)	94		76 - 123
Toluene-d8 (Surr)	96		77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-607674/1-A

**Matrix: Water** 

**Analysis Batch: 608177** 

**Client Sample ID: Method Blank Prep Type: Total Recoverable** 

**Prep Batch: 607674** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		50.0		ug/L		12/08/21 08:27	12/09/21 02:21	1

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Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

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

Lab Sample ID: LCS 480-607674/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 608177 Prep Batch: 607674

Spike LCS LCS Added Result Qualifier Analyte %Rec Limits Unit Iron 10000 10280 ug/L 103 85 - 115

Lab Sample ID: 480-192968-1 MS Client Sample ID: Effluent **Matrix: Water Prep Type: Total Recoverable** 

Analysis Batch: 608177 Prep Batch: 607674 Sample Sample Spike MS MS %Rec.

Result Qualifier Result Qualifier Analyte Added Unit D %Rec Limits Iron 916 10000 10900 ug/L 100 70 - 130

Lab Sample ID: 480-192968-1 MSD Client Sample ID: Effluent **Matrix: Water Prep Type: Total Recoverable** Analysis Batch: 608177 Prep Batch: 607674

RPD Spike MSD MSD %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

11110

ug/L

102

70 - 130

10000

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

916

Lab Sample ID: MB 480-607712/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Iron

Analysis Batch: 607712

мв мв Analyte Result Qualifier RL **RL** Unit Prepared Dil Fac Analyzed Total Suspended Solids 4.0 12/06/21 13:38 ND mq/L

Lab Sample ID: LCS 480-607712/2 **Client Sample ID: Lab Control Sample Matrix: Water** 

Analysis Batch: 607712

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 352 350.4 88 \_ 110 mg/L

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-608298/1 **Client Sample ID: Lab Control Sample Matrix: Water** 

Analysis Batch: 608298

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

Eurofins TestAmerica, Buffalo

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Prep Type: Total/NA

Prep Type: Total/NA

# **QC Association Summary**

Client: Waste Management

Job ID: 480-192968-1 Project/Site: ChemTrol Site - Monthly

### **GC/MS VOA**

### Analysis Batch: 607544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192968-1	Effluent	Total/NA	Water	624.1	
480-192968-2	Influent	Total/NA	Water	624.1	
480-192968-3	Trip Blank	Total/NA	Water	624.1	
MB 480-607544/8	Method Blank	Total/NA	Water	624.1	
LCS 480-607544/6	Lab Control Sample	Total/NA	Water	624.1	

### **Metals**

### **Prep Batch: 607674**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192968-1	Effluent	Total Recoverable	Water	200.7	_
480-192968-2	Influent	Total Recoverable	Water	200.7	
MB 480-607674/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-607674/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-192968-1 MS	Effluent	Total Recoverable	Water	200.7	
480-192968-1 MSD	Effluent	Total Recoverable	Water	200.7	

### Analysis Batch: 608177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192968-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	607674
480-192968-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	607674
MB 480-607674/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	607674
LCS 480-607674/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	607674
480-192968-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	607674
480-192968-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	607674

### **General Chemistry**

### Analysis Batch: 607712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192968-1	Effluent	Total/NA	Water	SM 2540D	- <del></del>
480-192968-2	Influent	Total/NA	Water	SM 2540D	
MB 480-607712/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-607712/2	Lab Control Sample	Total/NA	Water	SM 2540D	

### Analysis Batch: 608298

<b>Lab Sample ID</b> 480-192968-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
480-192968-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-608298/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

### Lab Chronicle

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

**Client Sample ID: Effluent** 

Date Received: 12/02/21 12:35

Lab Sample ID: 480-192968-1 Date Collected: 12/02/21 11:30

**Matrix: Water** 

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 624.1 Total/NA Analysis 607544 12/03/21 18:28 ATG TAL BUF Total Recoverable Prep 200.7 607674 12/08/21 08:27 **NBS** TAL BUF Total Recoverable Analysis 200.7 Rev 4.4 608177 12/09/21 02:28 LMH TAL BUF Total/NA Analysis SM 2540D 607712 12/06/21 13:38 TAL BUF 1 EJL Total/NA Analysis SM 4500 H+ B 608298 12/09/21 16:07 KEB TAL BUF 1

**Client Sample ID: Influent** 

Lab Sample ID: 480-192968-2 Date Collected: 12/02/21 11:45

**Matrix: Water** 

Date Received: 12/02/21 12:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		80	607544	12/03/21 18:53	ATG	TAL BUF
Total Recoverable	Prep	200.7			607674	12/08/21 08:27	NBS	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	608177	12/09/21 02:57	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	607712	12/06/21 13:38	EJL	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	608298	12/09/21 16:09	KEB	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-192968-3 Date Collected: 12/02/21 00:00

**Matrix: Water** 

Date Received: 12/02/21 12:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	607544	12/03/21 19:16	ATG	TAL BUF

### **Laboratory References:**

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

Eurofins TestAmerica, Buffalo

# **Accreditation/Certification Summary**

Client: Waste Management Job ID: 480-192968-1

Project/Site: ChemTrol Site - Monthly

### **Laboratory: Eurofins TestAmerica, Buffalo**

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

Authority	Pı	rogram	Identification Number	<b>Expiration Date</b>
New York	N	ELAP	10026	04-01-22
The following analytes the agency does not of	• •	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
624.1		Water	o-Chlorotoluene	_
SM 4500 H+ B		Water	рН	

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# **Method Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-192968-1

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	рН	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 TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# **Sample Summary**

Client: Waste Management

Project/Site: ChemTrol Site - Monthly

Job ID: 480-192968-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192968-1	Effluent	Water	12/02/21 11:30	12/02/21 12:35
480-192968-2	Influent	Water	12/02/21 11:45	12/02/21 12:35
480-192968-3	Trip Blank	Water	12/02/21 00:00	12/02/21 12:35

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Eurofins TestAmerica, Buffalo 10 Hazelwood Drive	i						3	
Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Cha	Chain of Custody Record	tody Re	cord			To the second	Environment Testing America
Client Information	Sampler: S	AC	Lab PM: VanDet	Lab PM: VanDette: Rvan T		Carrier Tracking No(s):	COC No:	
Client Contact: Chad Moose	$\Gamma_{\Lambda}$	122- 12	2 E-Mail:	E-Mail:		State of Origin:	480-166255-28522.1 Page:	-1
Company:		PWSID		an Dette @ Eurotins	et.com		Page 1 of 1	
Address:	Die Date Reginested:				Analysis Requested	quested		
Tullytown Landfill 444 Oxford Valley Road	Due Date Requested:						Preservation Codes:	
City: Morrisville	TAT Requested (days):	T			-			M - Hexane N - None
State, Zip: PA, 19067	Compliance Project:	A Yes A No	T				C - Zn Acetate O D - Nitric Acid P	0 - AsnaO2 P - Na2O4S
Phone: 215-269-2114(Tel) 215-699-8315(Eax)	1							G - Na2SO3 R - Na2S2O3 S L2SO4
Email: cmoose@wm.com	WO#:		Ot NO					T - TSP Dodecahydrate U - Acetone
Project Name: Chem Trol Site/NY22 Event Desc: Chem Trol Monthly Groundwalt 48002447	Project #: dwat 48002447		(Yes				J - DI Water K - EDTA I - FDA	V - MCAA W - pH 4-5 7 - other (specific)
Site: New York	SSOW#:		emple	Þ			Other:	(finada) tama
		Sample	Matrix	c - es	Hd - 4		ber of	
:		0	(W=water, S=solid, O=waste/oil, d	moil - T.	•H <sup>™</sup> 009ŧ		lmuV ls	
Sample Identification	Sample Date Tir	-	<u>.</u>	52¢ 200	·WS		Special Instructions/Note	uctions/Note:
Effluent	7	7	Preservation Code:	Z	N		X	
	1441 1120	50	water	- 2				
Influent	5411 12/21	5 6	Water	121				
Trip Blank	- 12/2/21	1619	Water					
	-							
					T			
						Chain of Custody	stody	
						480-192968 0112		
					+			
				Sample Disposal	(A fee may be	on columns if possesse		
ant	Poison B Unknown	Radiological		Return To C	lient	Return To Client Disposal By Lab	alned longer than 1 mi	onth)
, III, IV, Other (specify)	1			Special Instructions/QC Requirements:	s/QC Requirem	ents:	D DAID	MORITIS
Empty Kit Relinquished by:	Date:			Time:		Method of Shipment:		
Reminduished by: Programme of the Continue of	Date/Time: /2/2/	1235	Company Af COM	Received by	Millow	1Ko Date/Time: 2	211117	Company
.xeiiiidasiilea py.	Date/Time:		Company	Received by:		Date/Time:	3	Company
	Date/Time:		Company	Received by:		Date/Time:	Ö	Сотрапу
Custody Seals Intact: Custody Seal No.: △ Yes △ No				Cooler Temperatu	Cooler Temperature(s) °C and Other Remarks:	Remarks: Z. 4	714	
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Eurofins TestAmerica, Buffalo