

# First Quarter 2021 – January, February, March Operation, Maintenance, and Monitoring Report

CHEM-TROL Site NYSDEC Site No. 9-15-015 Report.hw915015.2021-06-15.1Q2021OMM

### 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 257 West Genesee Street, Suite 400 Buffalo, New York 14202

June 15, 2021

AECOM Project No. 60652207.3



AECOM 257 West Genesee St. Suite 400 Buffalo, NY 14202 www.aecom.com 716 856 5636 tel 716 856 2545 fax

June 15, 2021

SUBMITTED VIA ELECTRONIC MAIL

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

RE: S.C. Holdings, Inc., 4818 Lake Avenue, Blasdell, New York 14219

First Quarter 2021 Operation, Maintenance, and Monitoring Report

Chem-Trol Site, NYSDEC Site No. 9-15-015, Report.hw915015.2021-06-15.1Q2021OMM

Dear Mr. May:

Enclosed please find the First Quarter 2021 (1Q21 – January, February, March) Operation, Maintenance, and Monitoring Report for the "Chem-Trol" project site. AECOM is submitting this quarterly monitoring report on behalf of our client, S.C. Holdings, Inc.

The enclosed report contains the following information for 1Q21:

- 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 1Q21 is as follows:

#### January 2021

On January 15, 2021, AECOM visited the site for the quarterly acid wash and found that the system was off upon arrival due to blower fan shaft failure. AECOM completed the flush-and-rinse acid wash of the air-stripper trays and scheduled a maintenance visit. Matrix visited the site that day and determined the blower fan required replacement. Replacement parts were ordered and the fan was replaced on February 5, 2021.

Due to these system repairs the January 2021 samples were collected on February 9, 2021; analytical data were received on February 18, 2021. As presented on Table 1 (February 9, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.

AECOM also collected the 4Q20 quarterly groundwater levels on January 4, 2021.

### February 2021

AECOM collected the monthly monitoring samples on February 23, 2021; analytical data were received on February 26, 2021. As presented on Table 1 (February 23, 2021), there were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples during this month.



### March, 2021

AECOM collected the monthly monitoring samples on March 25, 2021; analytical data were received on April 9, 2021. As presented on Table 1 (March 25, 2021), there were exceedances of the discharge requirements for total iron and total suspended solids observed in the aqueous effluent sample based on concentration but not on mass loading.

On March 25, 2021, AECOM performed a flush-and-rinse acid wash of the system. AECOM also collected the 1Q21 quarterly groundwater levels on March 25, 2021.

AECOM returned to site on April 26, 2021 and the system was sampled; analytical data were received on May 14, 2021. There were no exceedances of the treatment or discharge requirements for any parameter in the effluent samples from the April 26, 2021 sampling event.

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. Kayon

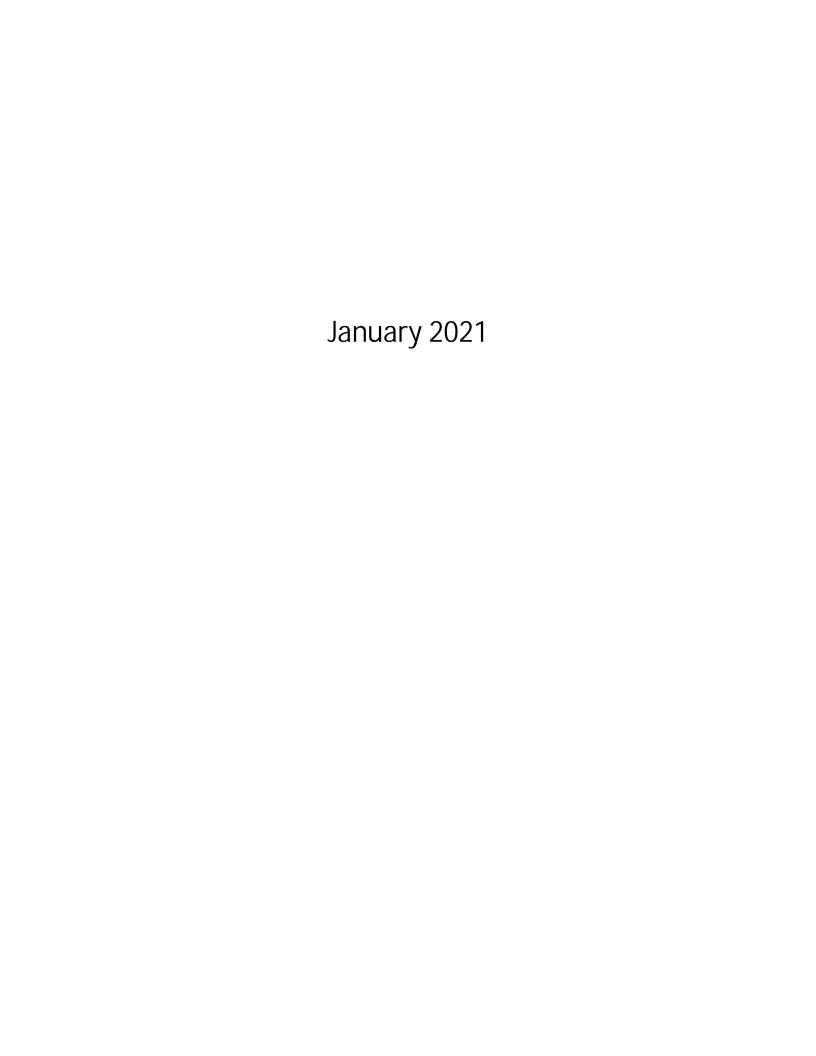
Enclosure

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

Ryan Donovan, (Waste Management) (electronic copy)

Mr. Brian Sadowski, NYSDEC (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: Partly cloudy, 39 F Date: <u>1/15/2021</u> Arrival Time: <u>08:00</u> Departure Time: 14:30 Reason for Service: Inspect system and perform monthly sampling **Inspection Items: Comments:** OK: X Site Appearance/Condition See comments section. **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 Condensation on the floor; slight drip from air stripper $\mathbf{X}$ Breaker turned on. Was off on arrival. **Building Heater** $\mathbf{X}$ Phone System Disconnected Exhaust Fan Could not get fan to work. Fire Extinguisher X First Aid & Eye Wash X

Grounawaier Freatment System		
Air Stripper	X	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	X	Tank in-line but filter media removed; not required.
Flow Meters	X	See Notes.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	
Groundwater Treatment Wells		
EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter	X	
EW-2 Pump	X	
EW-2 Transducer	X	
EW- 2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	
Effluent Discharge		
Outfall	X	System was off upon arrival. There was no discharge at outfall.
Cleanout	X	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:	
EW-1	
Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	<u>Maxed</u> Inches
Flow Meter Reading	<u>8,444,688</u> Gallons
EW-2	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>Maxed</u> Inches
Flow Meter Reading	<u>28,528,520</u> Gallons
EW-3	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	<u>Maxed</u> Inches
Flow Meter Reading	<u>15,696,380</u> Gallons
Air Stripper	
Stripper Blower Pressure	0.0 Inches H2O
Effluent Flow	
Total System Meter Reading	<u>71,683,213</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  $\frac{7.0}{1.0}$  (field test strip) Effluent pH  $\frac{7.0}{1.0}$  (field test strip)

### Notes/Explanations

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

Total system flow on system totalizer flow meter timed at 0.0 gpm. System was down upon arrival.

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

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (4Q2020) were collected on January 4, 2021.

The most recent acid wash was performed today, January 15, 2021.

# 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: Dino Zack Weather/Temperature: Snow; 20 F Date: <u>2/09/2021</u> Arrival Time: <u>09:00</u> Departure Time: 10:30 Reason for Service: Inspect system and perform monthly sampling **Inspection Items: Comments:** OK: X Site Appearance/Condition See comments section. **Building Exterior** $\mathbf{X}$ Wood lintel decaying, header exposed. Overhead Door $\mathbf{X}$ Metal trim missing from lintel Siding Roof and Discharge Pipe $\mathbf{X}$ **Building Interior** Indication of Spills or Leaks **Building Heater** $\mathbf{X}$ X Phone System Disconnected Exhaust Fan Fire Extinguisher X First Aid & Eye Wash $\mathbf{X}$

Grounawaier Treaimeni Sysiem		
Air Stripper	X	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	X	Tank in-line but filter media removed; not required.
Flow Meters	X	See Notes.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	
Groundwater Treatment Wells		
EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter	X	
EW-2 Pump	X	
EW-2 Transducer	X	
EW-2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	
Effluent Discharge		
Outfall	X	System was on upon arrival. There was discharge at outfall.
Cleanout	X	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:	
EW-1	
Pumping Rate	0 GPM (see Notes section)
Water Level Above Transducer	<u>NA</u> Inches
Flow Meter Reading	<u>8,444,688</u> Gallons
EW-2	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>NA</u> Inches
Flow Meter Reading	<u>28,528,520</u> Gallons
EW-3	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	<u>NA</u> Inches
Flow Meter Reading	<u>15,696,380</u> Gallons
Air Stripper	
Stripper Blower Pressure	14Inches H2O
Effluent Flow	
Total System Meter Reading	71,706,320 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 <u>6.7</u> (field test strip) Effluent pH <u>6.7</u> (field test strip)

### **Notes/Explanations**

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

The system was up and running and samples were collected for January 2021.

Not able to read transducer elevations on control panel due to backlight not working.

Confirmed flow from each of the three pumping wells by individually isolating EW-1, EW-2, and EW-3 by temporarily closing influent valves.

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

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

Inspected pumping well headers; vines growing around EW-3; vines were killed but could not be removed from well header without proper equipment (hand pruners).

Snowmobile tracks observed on site (including cap).

The most recent round of water levels (4Q2020) were collected on January 4, 2021.

The most recent acid wash was performed January 15, 2021.

Table 1
February 9, 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	2,809 7.3	2,809 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	< 18 < 19 < 23 < 24 < 15 < 35 < 24 < 34 < 24 < 24 < 2,600	< 5.0 < 5.0	5 10 10 5 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	1,170 18.8	1,080 4.8	3,000 20	ug/L mg/L	0.03 0.11	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 January 4, 2021 through February 9, 2021.

# Table 2 February 9, 2021 Summary of Influent and Effluent Data

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

Instrumen	ntation/Readings:	Current Report 2/9/2021	units	Prior Report 1/4/2021
2,,, 1	Pumping Rate	0	GPM	0
	Water Level Above Transducer	NA	Inches	293
	Flow Meter Reading	8,444,688	gallons	8,444,688
EW-2				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	NA	Inches	194
	Flow Meter Reading	28,528,520	gallons	28,528,520
EW-3				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	NA	Inches	217
	Flow Meter Reading	15,696,380	gallons	15,696,380
Air Strippe	er			
	Stripper Blower Pressure	14.0	inches H <sub>2</sub> O	17.5
Effluent F	low			
	Total System Meter Reading	71,706,320	gallons	71,608,015
	Average System Flow Since Prior Report	2,809	gpd	
		117.0	gph	
		2.0	gpm	
	Influent o-Chlorotoluene concentration	2,600	ug/L	
	Current month mass removal	1.0	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

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

Laboratory Job ID: 480-181003-1

Client Project/Site: ChemTrol Site: Monthly Sampling Event: ChemTrol Monthly Groundwater

For:

eurofins 🙀

Waste Management 600 New Ludlow Road South Hadley, Massachusetts 01075

Attn: Ryan Donovan

Joshu Vely

Authorized for release by: 2/18/2021 4:44:00 PM Joshua Velez, Project Management Assistant I joshua.velez@eurofinset.com

Designee for

Lisa Shaffer, Senior Project Manager (716)504-9816
Lisa Shaffer @ Eurofinset.com

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**Have a Question?** 



Visit us at: www.eurofinsus.com/Env 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.

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for

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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Laboratory Job ID: 480-181003-1

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

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# **Definitions/Glossary**

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

**Qualifiers** 

**GC/MS VOA** 

Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits.

**General Chemistry** 

Qualifier **Qualifier Description** 

HE 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

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### **Case Narrative**

Client: Waste Management

Job ID: 480-181003-1 Project/Site: ChemTrol Site: Monthly

Job ID: 480-181003-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-181003-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/9/2021 9:45 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 samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-181003-2), (480-181003-D-2 MS) and (480-181003-D-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 (480-181003-1) and Influent (480-181003-2).

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: 480-181003-1

Job ID: 480-181003-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1080		50.0		ug/L	1	_	200.7 Rev 4.4	Total
Total Suspended Solids	4.8		4.0		mg/L	1		SM 2540D	Recoverable Total/NA
pН	7.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

# Client Sample ID: Influent Lab Sample ID: 480-181003-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Chlorotoluene	2600	F1	13		ug/L	40	_	624.1	Total/NA
Iron	1170		50.0		ug/L	1		200.7 Rev 4.4	Total Recoverable
Total Suspended Solids	18.8		4.0		mg/L	1		SM 2540D	Total/NA
Total Suspended Solids	11.6		4.0		mg/L	1		SM 2540D	Total/NA
pH	7.3	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

# **Client Sample ID: Trip Blank**

No Detections.

Lab Sample ID: 480-181003-3

This Detection Summary does not include radiochemical test results.

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# **Client Sample Results**

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

**Temperature** 

Lab Sample ID: 480-181003-1 **Client Sample ID: Effluent** 

Date Collected: 02/09/21 09:15 **Matrix: Water** Date Received: 02/09/21 09:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			02/10/21 13:58	1
1,1-Dichloroethane	ND		5.0		ug/L			02/10/21 13:58	1
1,1-Dichloroethene	ND		5.0		ug/L			02/10/21 13:58	1
Benzene	ND		5.0		ug/L			02/10/21 13:58	1
Chlorobenzene	ND		5.0		ug/L			02/10/21 13:58	1
Chloroethane	ND		5.0		ug/L			02/10/21 13:58	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/10/21 13:58	1
Toluene	ND		5.0		ug/L			02/10/21 13:58	1
Trichloroethene	ND		5.0		ug/L			02/10/21 13:58	1
o-Chlorotoluene	ND		5.0		ug/L			02/10/21 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 130					02/10/21 13:58	1
4-Bromofluorobenzene (Surr)	96		76 - 123					02/10/21 13:58	1
Toluene-d8 (Surr)	97		77 - 120					02/10/21 13:58	1
Method: 200.7 Rev 4.4 - Me	etals (ICP) - Tot	al Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1080		50.0		ug/L		02/10/21 09:14	02/10/21 19:53	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.8		4.0		mg/L			02/13/21 16:04	1
			0.1		SU			02/09/21 23:47	

0.001

Degrees C

21.0 HF

2/18/2021

02/09/21 23:47

# **Client Sample Results**

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

**Client Sample ID: Influent** Lab Sample ID: 480-181003-2 Date Collected: 02/09/21 09:30

**Matrix: Water** 

Date Received: 02/09/21 09:45

**General Chemistry** 

**Total Suspended Solids** 

**Total Suspended Solids** 

Analyte

**Temperature** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			02/10/21 14:21	40
1,1-Dichloroethane	ND		24		ug/L			02/10/21 14:21	40
1,1-Dichloroethene	ND		34		ug/L			02/10/21 14:21	40
Benzene	ND		24		ug/L			02/10/21 14:21	40
Chlorobenzene	ND		19		ug/L			02/10/21 14:21	40
Chloroethane	ND		35		ug/L			02/10/21 14:21	40
cis-1,2-Dichloroethene	ND		23		ug/L			02/10/21 14:21	40
Toluene	ND		18		ug/L			02/10/21 14:21	40
Trichloroethene	ND		24		ug/L			02/10/21 14:21	40
o-Chlorotoluene	2600	F1	13		ug/L			02/10/21 14:21	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 130					02/10/21 14:21	40
4-Bromofluorobenzene (Surr)	100		76 - 123					02/10/21 14:21	40
Toluene-d8 (Surr)	94		77 - 120					02/10/21 14:21	40
Method: 200.7 Rev 4.4 - Me	tals (ICP) - Tot	al Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1170		50.0		ug/L		02/10/21 09:14	02/10/21 20:04	

RL

4.0

4.0

0.1

0.001

**RL** Unit

mg/L

mg/L

Degrees C

SU

Prepared

D

Analyzed

02/13/21 16:04

02/16/21 17:53

02/09/21 23:50 02/09/21 23:50 Dil Fac

1

Result Qualifier

7.3 HF

21.0 HF

18.8

11.6

Eurofins	TestAmerica,	Buffalo
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2/18/2021

# **Client Sample Results**

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

**Client Sample ID: Trip Blank** Date Collected: 02/09/21 09:00

Date Received: 02/09/21 09:45

Toluene-d8 (Surr)

Lab Sample ID: 480-181003-3

02/10/21 14:45

**Matrix: Water** 

Method: 624.1 - Volatile Or	ganic Compou	nds (GC/N	<b>1</b> S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			02/10/21 14:45	1
1,1-Dichloroethane	ND		5.0		ug/L			02/10/21 14:45	1
1,1-Dichloroethene	ND		5.0		ug/L			02/10/21 14:45	1
Benzene	ND		5.0		ug/L			02/10/21 14:45	1
Chlorobenzene	ND		5.0		ug/L			02/10/21 14:45	1
Chloroethane	ND		5.0		ug/L			02/10/21 14:45	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/10/21 14:45	1
Toluene	ND		5.0		ug/L			02/10/21 14:45	1
Trichloroethene	ND		5.0		ug/L			02/10/21 14:45	1
o-Chlorotoluene	ND		5.0		ug/L			02/10/21 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 130			•		02/10/21 14:45	1
4-Bromofluorobenzene (Surr)	97		76 - 123					02/10/21 14:45	1

77 - 120

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

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

Lab Sample ID: MB 480-568898/9

**Matrix: Water** 

Analysis Batch: 568898

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 02/10/21 11:36 1,1-Dichloroethane ND 5.0 ug/L 02/10/21 11:36 1,1-Dichloroethene ND 5.0 ug/L 02/10/21 11:36 Benzene ND 5.0 ug/L 02/10/21 11:36 02/10/21 11:36 Chlorobenzene ND 5.0 ug/L Chloroethane ND 5.0 ug/L 02/10/21 11:36 cis-1,2-Dichloroethene ND 5.0 ug/L 02/10/21 11:36 Toluene ND 5.0 ug/L 02/10/21 11:36 Trichloroethene ND 5.0 ug/L 02/10/21 11:36 ND o-Chlorotoluene 5.0 ug/L 02/10/21 11:36

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130	<del></del>	02/10/21 11:36	1
4-Bromofluorobenzene (Surr)	98		76 - 123		02/10/21 11:36	1
Toluene-d8 (Surr)	96		77 - 120		02/10/21 11:36	1

Lab Sample ID: LCS 480-568898/7

**Matrix: Water** 

**Analysis Batch: 568898** 

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	21.0		ug/L		105	52 - 162	
1,1-Dichloroethane	20.0	20.8		ug/L		104	59 - 155	
1,1-Dichloroethene	20.0	21.2		ug/L		106	1 - 234	
Benzene	20.0	21.0		ug/L		105	37 - 151	
Chlorobenzene	20.0	20.4		ug/L		102	37 - 160	
Chloroethane	20.0	20.3		ug/L		102	14 - 230	
Toluene	20.0	22.1		ug/L		110	47 - 150	
Trichloroethene	20.0	20.9		ug/L		104	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 130
4-Bromofluorobenzene (Surr)	99		76 - 123
Toluene-d8 (Surr)	108		77 - 120

Lab Sample ID: 480-181003-2 MS

**Matrix: Water** 

Analysis Batch: 568898

/ maryone Baterin ecoco	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	ND		800	804		ug/L		100	52 - 162	
1,1-Dichloroethane	ND		800	839		ug/L		105	59 - 155	
1,1-Dichloroethene	ND		800	788		ug/L		99	1 - 234	
Benzene	ND		800	812		ug/L		102	37 - 151	
Chlorobenzene	ND		800	823		ug/L		103	37 - 160	
Chloroethane	ND		800	898		ug/L		112	14 - 230	
Toluene	ND		800	829		ug/L		104	47 - 150	
Trichloroethene	ND		800	819		ug/L		102	71 - 157	

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**Client Sample ID: Influent** 

Prep Type: Total/NA

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Client: Waste Management

Project/Site: ChemTrol Site: Monthly

Job ID: 480-181003-1

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		68 - 130
4-Bromofluorobenzene (Surr)	100		76 - 123
Toluene-d8 (Surr)	101		77 - 120

Lab Sample ID: 480-181003-2 MSD

**Matrix: Water** 

Analysis Batch: 568898

Client Sample ID: Influent
Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND		800	762		ug/L		95	52 - 162	5	15
1,1-Dichloroethane	ND		800	820		ug/L		103	59 - 155	2	15
1,1-Dichloroethene	ND		800	732		ug/L		92	1 - 234	7	15
Benzene	ND		800	800		ug/L		100	37 - 151	1	15
Chlorobenzene	ND		800	775		ug/L		97	37 - 160	6	15
Chloroethane	ND		800	839		ug/L		105	14 - 230	7	15
Toluene	ND		800	771		ug/L		96	47 - 150	7	15
Trichloroethene	ND		800	776		ug/L		97	71 - 157	5	15

MSD MSD

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

# Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-568931/1-A

**Matrix: Water** 

**Analysis Batch: 569132** 

Client Sample ID: Method Blank
Prep Type: Total Recoverable

**Prep Batch: 568931** 

 Analyte
 Result Iron
 Qualifier ND
 RL Store
 MDL ug/L
 Unit ug/L
 D op/10/21 09:14
 Analyzed Analyzed O2/10/21 18:50
 D oz/10/21 18:50
 1

Lab Sample ID: LCS 480-568931/2-A

**Matrix: Water** 

**Analysis Batch: 569132** 

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 568931

 Spike
 LCS
 LCS
 LCS
 %Rec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 Iron
 10000
 9791
 ug/L
 98
 85 - 115

Lab Sample ID: 480-181003-1 MS

**Matrix: Water** 

Analysis Batch: 569132

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 568931

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Iron 1080 10000 10940 70 - 130 ug/L

Lab Sample ID: 480-181003-1 MSD

**Matrix: Water** 

**Analysis Batch: 569132** 

Client Sample ID: Effluent
Prep Type: Total Recoverable
Prep Batch: 568931
%Rec. RPD

Sample Sample Spike MSD MSD Limit Result Qualifier Added Result Qualifier Limits RPD Analyte Unit %Rec 1080 10000 20 Iron 10890 ug/L 98 70 - 130 0

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2/18/2021

Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

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

Lab Sample ID: MB 480-569403/1 Client Sample ID: Method Blank **Prep Type: Total/NA** 

**Matrix: Water** 

Analysis Batch: 569403

Client: Waste Management

MB MB

Result Qualifier RL **RL** Unit Analyzed Dil Fac Analyte D Prepared 4.0 02/13/21 16:04 **Total Suspended Solids** ND mg/L

Lab Sample ID: LCS 480-569403/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 569403** 

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits 2590 2593 88 - 110 **Total Suspended Solids** mg/L 100

Lab Sample ID: MB 480-569708/1 Client Sample ID: Method Blank **Prep Type: Total/NA** 

**Matrix: Water** 

**Analysis Batch: 569708** 

MB MB

Result Qualifier RL**RL** Unit Analyte Prepared Analyzed Dil Fac Total Suspended Solids  $\overline{\mathsf{ND}}$ 4.0 mg/L 02/16/21 17:53

Lab Sample ID: LCS 480-569708/2 **Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Matrix: Water** 

**Analysis Batch: 569708** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 2560 2503 mg/L 88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-568983/23 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 568983** 

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

Lab Sample ID: LCS 480-568983/45

**Matrix: Water** 

Analysis Batch: 568983

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

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2/18/2021

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

# **QC Association Summary**

Client: Waste Management

Project/Site: ChemTrol Site: Monthly

Job ID: 480-181003-1

# **GC/MS VOA**

# Analysis Batch: 568898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181003-1	Effluent	Total/NA	Water	624.1	
480-181003-2	Influent	Total/NA	Water	624.1	
480-181003-3	Trip Blank	Total/NA	Water	624.1	
MB 480-568898/9	Method Blank	Total/NA	Water	624.1	
LCS 480-568898/7	Lab Control Sample	Total/NA	Water	624.1	
480-181003-2 MS	Influent	Total/NA	Water	624.1	
480-181003-2 MSD	Influent	Total/NA	Water	624.1	

### **Metals**

### **Prep Batch: 568931**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181003-1	Effluent	Total Recoverable	Water	200.7	
480-181003-2	Influent	Total Recoverable	Water	200.7	
MB 480-568931/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-568931/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-181003-1 MS	Effluent	Total Recoverable	Water	200.7	
480-181003-1 MSD	Effluent	Total Recoverable	Water	200.7	

### **Analysis Batch: 569132**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181003-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	568931
480-181003-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	568931
MB 480-568931/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	568931
LCS 480-568931/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	568931
480-181003-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	568931
480-181003-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	568931

# **General Chemistry**

### Analysis Batch: 568983

Lab Sample ID 480-181003-1	Client Sample ID  Effluent	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
480-181003-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-568983/23	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 480-568983/45	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

## **Analysis Batch: 569403**

Lab Sample ID 480-181003-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
480-181003-2	Influent	Total/NA	Water	SM 2540D	
MB 480-569403/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-569403/2	Lab Control Sample	Total/NA	Water	SM 2540D	

# **Analysis Batch: 569708**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181003-2	Influent	Total/NA	Water	SM 2540D	
MB 480-569708/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-569708/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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## **Lab Chronicle**

Client: Waste Management Job ID: 480-181003-1

Project/Site: ChemTrol Site: Monthly

**Client Sample ID: Effluent** 

Lab Sample ID: 480-181003-1 Date Collected: 02/09/21 09:15

**Matrix: Water** 

Date Received: 02/09/21 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	568898	02/10/21 13:58	RJF	TAL BUF
Total Recoverable	Prep	200.7			568931	02/10/21 09:14	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	569132	02/10/21 19:53	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	569403	02/13/21 16:04	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	568983	02/09/21 23:47	KMF	TAL BUF

Lab Sample ID: 480-181003-2 **Client Sample ID: Influent** 

Date Collected: 02/09/21 09:30 **Matrix: Water** 

Date Received: 02/09/21 09:45

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	568898	02/10/21 14:21	RJF	TAL BUF
Total Recoverable	Prep	200.7			568931	02/10/21 09:14	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	569132	02/10/21 20:04	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	569708	02/16/21 17:53	CSS	TAL BUF
Total/NA	Analysis	SM 2540D		1	569403	02/13/21 16:04	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	568983	02/09/21 23:50	KMF	TAL BUF

**Client Sample ID: Trip Blank** Lab Sample ID: 480-181003-3

Date Collected: 02/09/21 09:00 **Matrix: Water** Date Received: 02/09/21 09:45

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	568898	02/10/21 14:45	RJF	TAL BUF

#### **Laboratory References:**

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

Eurofins TestAmerica, Buffalo

2/18/2021

# **Accreditation/Certification Summary**

Client: Waste Management Job ID: 480-181003-1

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	<u> </u>	NELAP	10026	03-31-21
The following analytes the agency does not o	•	port, but the laboratory is i	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

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

Job ID: 480-181003-1

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# **Sample Summary**

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

Job ID: 480-181003-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181003-1	Effluent	Water	02/09/21 09:15	02/09/21 09:45	
480-181003-2	Influent	Water	02/09/21 09:30	02/09/21 09:45	
480-181003-3	Trip Blank	Water	02/09/21 09:00	02/09/21 09:45	

Ver: 01/16/2019

Date/Time:

Date/Time:

Cooler Temperature(s) °C and Other Remarks.

Received by:

Company

Date/Time:

Edicinis restAmenca, buildio												
10 Hazelwood Drive	0	Chain o	ain of Custody Record	V Re	Cord					💸 eurofins		
Amnerst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991					5						America	
Client Information	Sample: 7			Lab PM: Shaffer Lisa E	<u>і</u>			Carrier Tracking No(s):		COC No:		_
Client Contact: Mr. Dino Zack	Phone:	X/26 P	77.2	E-Mail:	affer@Fire	E-Mail: Lisa Shaffer@Eurofineet com				460-151975-28522. Page:	522.1	
Company: AECOM						×	Analysis Domination	100		rage 1 of 1 Job #:		_
Address: 257 West Genesee Street Suite 400	Due Date Requested:	ed:					lai) sis rede	nesten		Preservation Codes:	des:	
City: Buffalo	TAT Requested (days)	ays):								A - HCL B - NaOH	M - Hexane N - None	
State, Zp: NY, 14202-2657	S	1								C - Zn Acetate D - Nitric Acid F - NaHSO4	0 - AsNaO2 P - Na2O4S	
Phone: 215-269-2114(Tel) 215-699-8315(Fax)	PO#: 5070005494			(0						F - MeOH G - Amchlor		
Email: dino.zack@aecom.com	.#OM			OF No	/WOME	sp				H - Ascorbic Acid I - Ice		
Project Name: Project War Evolet Brosect Ohem Trol Monthly Groundwat 48002447	Project #: vat 48002447			sə <u>/</u> ) ə	(P) (S)	loS bə				K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	
Site: New York	SSOW#:			ldms		puəds				Other:		
				Matrix	uo W/SW	M+ - PH Otal Su			mber			
Sample Identification	S. C.	Sample			7.00 11 - 7.00	L - 00b			ųΝ let∙			
South President Control of the Contr	Sample Date		G=grab) BT=Tissue, A=A	ਗ਼	oz C	57 Z			οT >	Special I	Special Instructions/Note:	
Effluent	12/6/21	5160	3	Water N		3						
Influent	2/9/21	0430	-	Water	2							
Trip Blank	14/21	0,000		Water N	2							
	-											-
								480-181003 Chain of Custody	ain of Custo	dy		_
												_
						-						
		1 -			Sample D	isposal (A	fee may be as	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	s are retaine	ed longer than	1 month)	_
le Skin Irritant	Poison B Unknown	- 1	Radiological		Ret	Return To Client	t Die	Disposal By Lab	Archive For	re For	Months	
Convergio (Specify)					Special In	structions/Q	Special Instructions/QC Requirements:	S:				_
Empty Kit Relinguished by:		Date:		Ė	Time:			Method of Shipment:	ent:			_
Relinauished by:	Inato/Time:		·									_

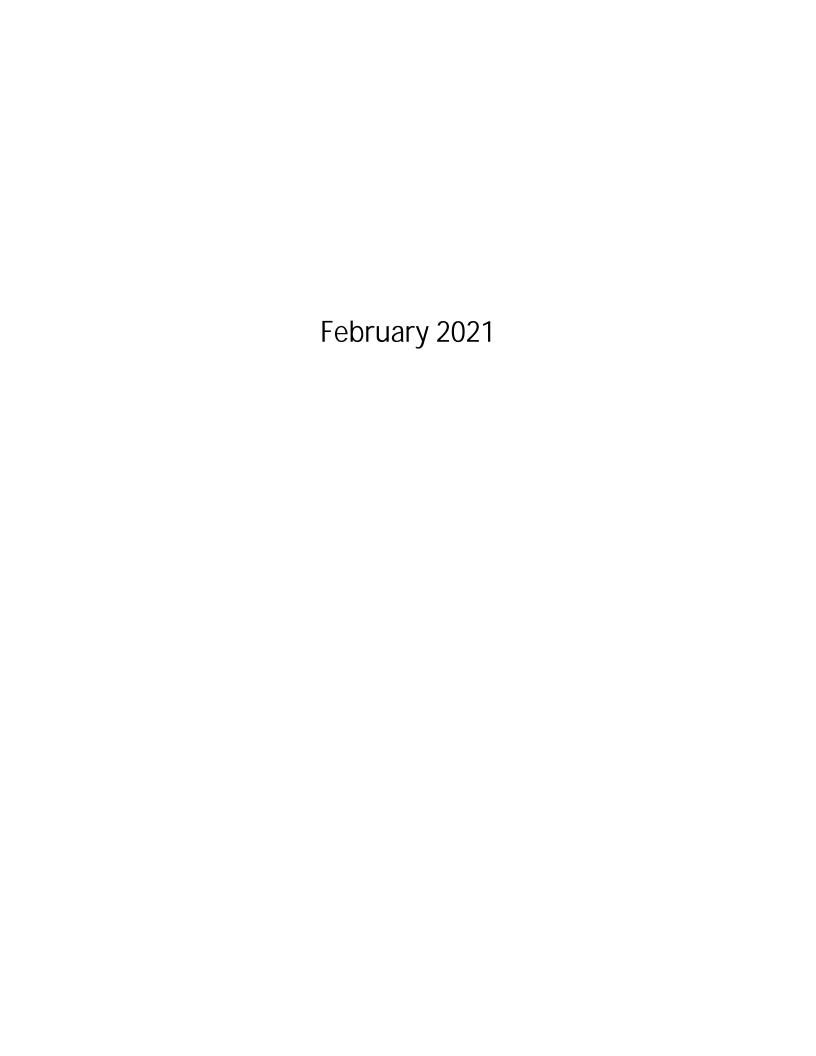
Eurofins TestAmerica, Buffalo

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Custody Seals Intact:
A Yes A No

linquished by: elinquished by:

Custody Seal No.:



# 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: Snowing, 31 F Date: <u>2/23/2021</u> Arrival Time: <u>07:15</u> Departure Time: 8:30 Reason for Service: Inspect system and perform monthly sampling **Inspection Items: Comments:** OK: X Site Appearance/Condition See comments section. **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 Condensation on the floor; slight drip from air stripper $\mathbf{X}$ Breaker turned on. Was off on arrival. **Building Heater** $\mathbf{X}$ Phone System Disconnected Exhaust Fan Could not get fan to work. Fire Extinguisher X First Aid & Eye Wash X

Grounawaier Treaimeni Sysiem		
Air Stripper	X	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	X	Tank in-line but filter media removed; not required.
Flow Meters	X	See Notes.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	
Groundwater Treatment Wells		
EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter	X	
EW-2 Pump	X	
EW-2 Transducer	X	
EW-2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	
Effluent Discharge		
Outfall	X	System was on upon arrival. There was discharge at outfall.
Cleanout	X	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:	
EW-1	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>266</u> Inches
Flow Meter Reading	<u>8,444,688</u> Gallons
EW-2	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>168</u> Inches
Flow Meter Reading	<u>28,528,520</u> Gallons
EW-3	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	Inches
Flow Meter Reading	<u>15,696,380</u> Gallons
Air Stripper	
Stripper Blower Pressure	17.5Inches H2O
Effluent Flow	
Total System Meter Reading	<u>71,783,625</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 up and running and the February 2021 samples were able to be collected today.

Total system flow on system totalizer flow meter timed at 4.0 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve 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.

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

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (4Q2020) were collected on January 4, 2021.

The most recent acid wash was performed on January 15, 2021 by AECOM.

## Table 1 February 23, 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	5,522 7.5	5,522 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	< 18 < 19 < 23 < 24 < 15 < 35 < 24 < 34 < 24 < 2500	< 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	< 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002 < 0.0002	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	1,100 5.2	754 < 4.0	3,000 20	ug/L mg/L	0.03 < 0.18	3.61	lbs/day lbs/day

#### Notes:

- 1) **Bold** typeface denotes exceedance of treatment requirements in the effluent sample.
- 2) < indicates Not Detected at or above the laboratory reporting limit.
- 3) NA indicates Not Applicable.
- 4) "J" indicates an estimated concentration below the method detection limit.
- 5) E Estimated Value, result above calibration curve
- 6) D Dilution
- 7) Revision of monitoring parameters (inorganics and TSS) and discharge limitation (iron) approved by NYSDEC letter dated July 27, 2007.
- \* Average daily flow as measured February 9, 2021 through February 23, 2021.

## Table 2 February 23, 2021 Summary of Influent and Effluent Data

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

Instrumen	ntation/Readings:	Current Report 2/23/2021	units	Prior Report 2/9/2021
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	266	Inches	NA
	Flow Meter Reading	8,444,688	gallons	8,444,688
EW-2				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	168	Inches	NA
	Flow Meter Reading	28,528,520	gallons	28,528,520
<i>EW-3</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	187	Inches	NA
	Flow Meter Reading	15,696,380	gallons	15,696,380
Air Strippe	er			
	Stripper Blower Pressure	17.5	inches H <sub>2</sub> O	14.0
Effluent F	low			
	Total System Meter Reading	71,783,625	gallons	71,706,320
	Average System Flow Since Prior Report	5,522	gpd	
		230.1	gph	
		3.8	gpm	
	Influent o-Chlorotoluene concentration	2,500	ug/L	
	Current month mass removal	0.7	kilograms	

Note: NA indicates Not Available.

NW - Not working

ug/L - micrograms per liter

## **America**

## **ANALYTICAL REPORT**

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

Laboratory Job ID: 480-181361-1

Client Project/Site: ChemTrol Site: Monthly Sampling Event: ChemTrol Monthly Groundwater

#### For:

eurofins 🙀

Waste Management 600 New Ludlow Road South Hadley, Massachusetts 01075

Attn: Ryan Donovan



Authorized for release by: 2/26/2021 3:30:28 PM Joshua Velez, Project Management Assistant I joshua.velez@eurofinset.com

Designee for

Lisa Shaffer, Senior Project Manager (716)504-9816 Lisa.Shaffer@Eurofinset.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.

Client: Waste Management Laboratory Job ID: 480-181361-1 Project/Site: ChemTrol Site: Monthly

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#### **Definitions/Glossary**

Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

#### **Qualifiers**

**GC/MS VOA** 

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

**General Chemistry** 

Qualifier Qualifier Description

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

**Glossary** 

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

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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#### **Case Narrative**

Client: Waste Management

Job ID: 480-181361-1 Project/Site: ChemTrol Site: Monthly

Job ID: 480-181361-1

Laboratory: Eurofins TestAmerica, Buffalo

**Narrative** 

Job Narrative 480-181361-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/23/2021 4:15 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 5.4° C.

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

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-181361-2), (480-181361-D-2 MS) and (480-181361-D-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 (480-181361-1) and Influent (480-181361-2).

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: 480-181361-1

Job ID: 480-181361-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Iron	754	50.0	ug/L	1 -	200.7 Rev 4.4	Total
						Recoverable
рН	7.9 HF	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	20.8 HF	0.001	Degrees C	1	SM 4500 H+ B	Total/NA

## Client Sample ID: Influent Lab Sample ID: 480-181361-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
o-Chlorotoluene	2500	F1	13		ug/L	40	624.1	Total/NA
Iron	1100		50.0		ug/L	1	200.7 Rev 4.4	Total
Total Suspended Solids	5.2		4.0		mg/L	1	SM 2540D	Recoverable Total/NA
pH	7.5	HF	0.1		SU	1	SM 4500 H+ B	Total/NA
Temperature	20.7	HF	0.001		Degrees C	1	SM 4500 H+ B	Total/NA

### **Client Sample ID: Trip Blank**

Lab Sample ID: 480-181361-3

No Detections.

This Detection Summary does not include radiochemical test results.

2/26/2021

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Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

Client Sample ID: Effluent Lab Sample ID: 480-181361-1

Date Collected: 02/23/21 07:45

Date Received: 02/23/21 16:15

Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS) Analyte Result Qualifier RLMDL Unit D Analyzed Dil Fac Prepared 1,1,1-Trichloroethane ND 5.0 02/24/21 22:43 ug/L ND 5.0 02/24/21 22:43 1,1-Dichloroethane ug/L 1,1-Dichloroethene ND 5.0 ug/L 02/24/21 22:43 ND 5.0 02/24/21 22:43 Benzene ug/L Chlorobenzene ND 5.0 ug/L 02/24/21 22:43 Chloroethane ND 5.0 ug/L 02/24/21 22:43 cis-1,2-Dichloroethene ND 5.0 ug/L 02/24/21 22:43 Toluene ND 5.0 ug/L 02/24/21 22:43 Trichloroethene ND 5.0 ug/L 02/24/21 22:43 o-Chlorotoluene ND 5.0 ug/L 02/24/21 22:43 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 68 - 130 02/24/21 22:43 106 4-Bromofluorobenzene (Surr) 92 76 - 123 02/24/21 22:43 Toluene-d8 (Surr) 96 77 - 120 02/24/21 22:43

Method: 200.7 Rev 4.4 - Metals	s (ICP) - Tota	I Recover	rable						
Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	754		50.0		ug/L		02/25/21 10:55	02/25/21 18:17	1

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0		mg/L			02/24/21 15:20	1
pН	7.9	HF	0.1		SU			02/25/21 14:12	1
Temperature	20.8	HF	0.001		Degrees C			02/25/21 14:12	1

2/26/2021

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Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

**Temperature** 

Lab Sample ID: 480-181361-2 **Client Sample ID: Influent** 

Date Collected: 02/23/21 08:15 **Matrix: Water** Date Received: 02/23/21 16:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			02/24/21 23:08	40
1,1-Dichloroethane	ND		24		ug/L			02/24/21 23:08	40
1,1-Dichloroethene	ND	F2	34		ug/L			02/24/21 23:08	40
Benzene	ND		24		ug/L			02/24/21 23:08	40
Chlorobenzene	ND		19		ug/L			02/24/21 23:08	40
Chloroethane	ND	F2	35		ug/L			02/24/21 23:08	40
cis-1,2-Dichloroethene	ND		23		ug/L			02/24/21 23:08	40
Toluene	ND		18		ug/L			02/24/21 23:08	40
Trichloroethene	ND		24		ug/L			02/24/21 23:08	40
o-Chlorotoluene	2500	F1	13		ug/L			02/24/21 23:08	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 130					02/24/21 23:08	40
4-Bromofluorobenzene (Surr)	99		76 - 123					02/24/21 23:08	40
Toluene-d8 (Surr)	96		77 - 120					02/24/21 23:08	40
Method: 200.7 Rev 4.4 - Me	etals (ICP) - Tot	al Recove	rable						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1100		50.0		ug/L		02/25/21 10:55	02/25/21 18:21	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.2		4.0		mg/L			02/24/21 15:20	1
Total Gaspellaca Golias									

0.001

20.7 HF

Degrees C

02/25/21 14:15

2/26/2021

Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

Client Sample ID: Trip Blank Date Collected: 02/23/21 00:00

Date Received: 02/23/21 16:15

Lab Sample ID: 480-181361-3

**Matrix: Water** 

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			02/24/21 23:31	1
1,1-Dichloroethane	ND		5.0		ug/L			02/24/21 23:31	1
1,1-Dichloroethene	ND		5.0		ug/L			02/24/21 23:31	1
Benzene	ND		5.0		ug/L			02/24/21 23:31	1
Chlorobenzene	ND		5.0		ug/L			02/24/21 23:31	1
Chloroethane	ND		5.0		ug/L			02/24/21 23:31	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			02/24/21 23:31	1
Toluene	ND		5.0		ug/L			02/24/21 23:31	1
Trichloroethene	ND		5.0		ug/L			02/24/21 23:31	1
o-Chlorotoluene	ND		5.0		ug/L			02/24/21 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 130					02/24/21 23:31	1
4-Bromofluorobenzene (Surr)	97		76 - 123					02/24/21 23:31	1
Toluene-d8 (Surr)	86		77 - 120					02/24/21 23:31	1

2/26/2021

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Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

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

Lab Sample ID: MB 480-570484/10

**Matrix: Water** 

Analysis Batch: 570484

**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 ND	5.0	ug/L			02/24/21 21:08	1
1,1-Dichloroethane	ND	5.0	ug/L			02/24/21 21:08	1
1,1-Dichloroethene	ND	5.0	ug/L			02/24/21 21:08	1
Benzene	ND	5.0	ug/L			02/24/21 21:08	1
Chlorobenzene	ND	5.0	ug/L			02/24/21 21:08	1
Chloroethane	ND	5.0	ug/L			02/24/21 21:08	1
cis-1,2-Dichloroethene	ND	5.0	ug/L			02/24/21 21:08	1
Toluene	ND	5.0	ug/L			02/24/21 21:08	1
Trichloroethene	ND	5.0	ug/L			02/24/21 21:08	1
o-Chlorotoluene	ND	5.0	ug/L			02/24/21 21:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		02/24/21 21:08	1
4-Bromofluorobenzene (Surr)	93		76 - 123		02/24/21 21:08	1
Toluene-d8 (Surr)	97		77 - 120		02/24/21 21:08	1

Lab Sample ID: LCS 480-570484/8

Matrix: Water

Analysis Batch: 570484

**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	17.8		ug/L		89	52 - 162	
1,1-Dichloroethane	20.0	21.6		ug/L		108	59 - 155	
1,1-Dichloroethene	20.0	21.1		ug/L		105	1 - 234	
Benzene	20.0	20.2		ug/L		101	37 - 151	
Chlorobenzene	20.0	20.3		ug/L		101	37 - 160	
Chloroethane	20.0	20.5		ug/L		102	14 - 230	
Toluene	20.0	19.1		ug/L		95	47 - 150	
Trichloroethene	20.0	20.1		ug/L		101	71 - 157	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		68 - 130
4-Bromofluorobenzene (Surr)	100		76 - 123
Toluene-d8 (Surr)	95		77 - 120

Lab Sample ID: 480-181361-2 MS

**Matrix: Water** 

Analysis Batch: 570484

Client Sampl	le ID: Influent
Prep Ty	ype: Total/NA

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	ND		800	809		ug/L		101	52 - 162	
1,1-Dichloroethane	ND		800	836		ug/L		105	59 - 155	
1,1-Dichloroethene	ND	F2	800	981		ug/L		123	1 _ 234	
Benzene	ND		800	847		ug/L		106	37 - 151	
Chlorobenzene	ND		800	845		ug/L		106	37 - 160	
Chloroethane	ND	F2	800	947		ug/L		118	14 - 230	
Toluene	ND		800	823		ug/L		103	47 - 150	
Trichloroethene	ND		800	845		ug/L		106	71 - 157	

Eurofins TestAmerica, Buffalo

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Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

Client: Waste Management

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 130
4-Bromofluorobenzene (Surr)	88		76 - 123
Toluene-d8 (Surr)	98		77 - 120

Lab Sample ID: 480-181361-2 MSD

**Matrix: Water** 

Analysis Batch: 570484

**Client Sample ID: Influent** Prep Type: Total/NA

5	Sample Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND	800	798		ug/L		100	52 - 162	1	15
1,1-Dichloroethane	ND	800	816		ug/L		102	59 - 155	2	15
1,1-Dichloroethene	ND F2	800	817	F2	ug/L		102	1 - 234	18	15
Benzene	ND	800	808		ug/L		101	37 - 151	5	15
Chlorobenzene	ND	800	802		ug/L		100	37 - 160	5	15
Chloroethane	ND F2	800	785	F2	ug/L		98	14 - 230	19	15
Toluene	ND	800	776		ug/L		97	47 - 150	6	15
Trichloroethene	ND	800	789		ug/L		99	71 - 157	7	15

MSD MSD

MB MB

ND

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		68 - 130
4-Bromofluorobenzene (Surr)	104		76 - 123
Toluene-d8 (Surr)	97		77 - 120

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

Lab Sample ID: MB 480-570541/1-A

**Matrix: Water** 

Analyte

Analyte

Iron

Iron

**Analysis Batch: 570687** 

**Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 570541** 

MDL Unit

LCS LCS

9195

Result Qualifier

ug/L

Prepared Analyzed Dil Fac

Lab Sample ID: LCS 480-570541/2-A

**Matrix: Water** 

Analysis Batch: 570687

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

02/25/21 10:55 02/25/21 18:09

**Prep Batch: 570541** %Rec. D %Rec Limits

85 - 115

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

Lab Sample ID: MB 480-570473/1

**Matrix: Water** 

Analysis Batch: 570473

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

Unit

ug/L

MB MB

Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND ND	4.0	mg/L			02/24/21 15:20	1

RL

50.0

Spike

Added

10000

Eurofins TestAmerica, Buffalo

## **QC Sample Results**

Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

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

Lab Sample ID: LCS 480-570473/2

**Matrix: Water** 

**Analysis Batch: 570473** 

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Total Suspended Solids 3340 3331 mg/L 100 88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-570628/1

**Matrix: Water** 

pН

**Analysis Batch: 570628** 

Analyte

Spike Added 7.00

LCS LCS Result Qualifier 7.1

Unit SU

D %Rec 101

Limits 99 - 101

%Rec.

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Prep Type: Total/NA** 

## **QC Association Summary**

Client: Waste Management

Project/Site: ChemTrol Site: Monthly

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

#### Analysis Batch: 570484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181361-1	Effluent	Total/NA	Water	624.1	
480-181361-2	Influent	Total/NA	Water	624.1	
480-181361-3	Trip Blank	Total/NA	Water	624.1	
MB 480-570484/10	Method Blank	Total/NA	Water	624.1	
LCS 480-570484/8	Lab Control Sample	Total/NA	Water	624.1	
480-181361-2 MS	Influent	Total/NA	Water	624.1	
480-181361-2 MSD	Influent	Total/NA	Water	624.1	

#### **Metals**

#### **Prep Batch: 570541**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181361-1	Effluent	Total Recoverable	Water	200.7	
480-181361-2	Influent	Total Recoverable	Water	200.7	
MB 480-570541/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-570541/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

#### **Analysis Batch: 570687**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181361-1	Effluent	Total Recoverable	Water	200.7 Rev 4.4	570541
480-181361-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	570541
MB 480-570541/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	570541
LCS 480-570541/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	570541

## **General Chemistry**

#### **Analysis Batch: 570473**

Lab Sample ID 480-181361-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
480-181361-2	Influent	Total/NA	Water	SM 2540D	
MB 480-570473/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-570473/2	Lab Control Sample	Total/NA	Water	SM 2540D	

#### **Analysis Batch: 570628**

<b>Lab Sample ID</b> 480-181361-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
480-181361-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-570628/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Job ID: 480-181361-1

#### **Lab Chronicle**

Client: Waste Management Job ID: 480-181361-1

Project/Site: ChemTrol Site: Monthly

**Client Sample ID: Effluent** 

Date Received: 02/23/21 16:15

Lab Sample ID: 480-181361-1 Date Collected: 02/23/21 07:45

**Matrix: Water** 

**Matrix: Water** 

Batch Batch Dilution Batch **Prepared** Method **Factor** Number or Analyzed **Prep Type** Type Run Analyst Lab Total/NA Analysis 624.1 570484 02/24/21 22:43 WJD TAL BUF 200.7 Total Recoverable Prep 570541 02/25/21 10:55 ADM TAL BUF Total Recoverable Analysis 200.7 Rev 4.4 1 570687 02/25/21 18:17 AMH TAL BUF Total/NA SM 2540D 570473 02/24/21 15:20 CSS Analysis 1 TAL BUF SM 4500 H+ B 570628 02/25/21 14:12 KEB TAL BUF Total/NA Analysis 1

Lab Sample ID: 480-181361-2 **Client Sample ID: Influent** 

Date Collected: 02/23/21 08:15 Date Received: 02/23/21 16:15

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	570484	02/24/21 23:08	WJD	TAL BUF
Total Recoverable	Prep	200.7			570541	02/25/21 10:55	ADM	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	570687	02/25/21 18:21	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	570473	02/24/21 15:20	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	570628	02/25/21 14:15	KEB	TAL BUF

**Client Sample ID: Trip Blank** Lab Sample ID: 480-181361-3

Date Collected: 02/23/21 00:00 **Matrix: Water** Date Received: 02/23/21 16:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	570484	02/24/21 23:31	WJD	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: 480-181361-1

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		Program	Identification Number	Expiration Date
New York		NELAP	10026	03-31-21
The following analytes the agency does not o		eport, but the laboratory is i	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

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

Job ID: 480-181361-1

## **Sample Summary**

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
80-181361-1	Effluent	Water	02/23/21 07:45	02/23/21 16:15	
480-181361-2	Influent	Water	02/23/21 08:15	02/23/21 16:15	
480-181361-3	Trip Blank	Water	02/23/21 00:00	02/23/21 16:15	

Job ID: 480-181361-1

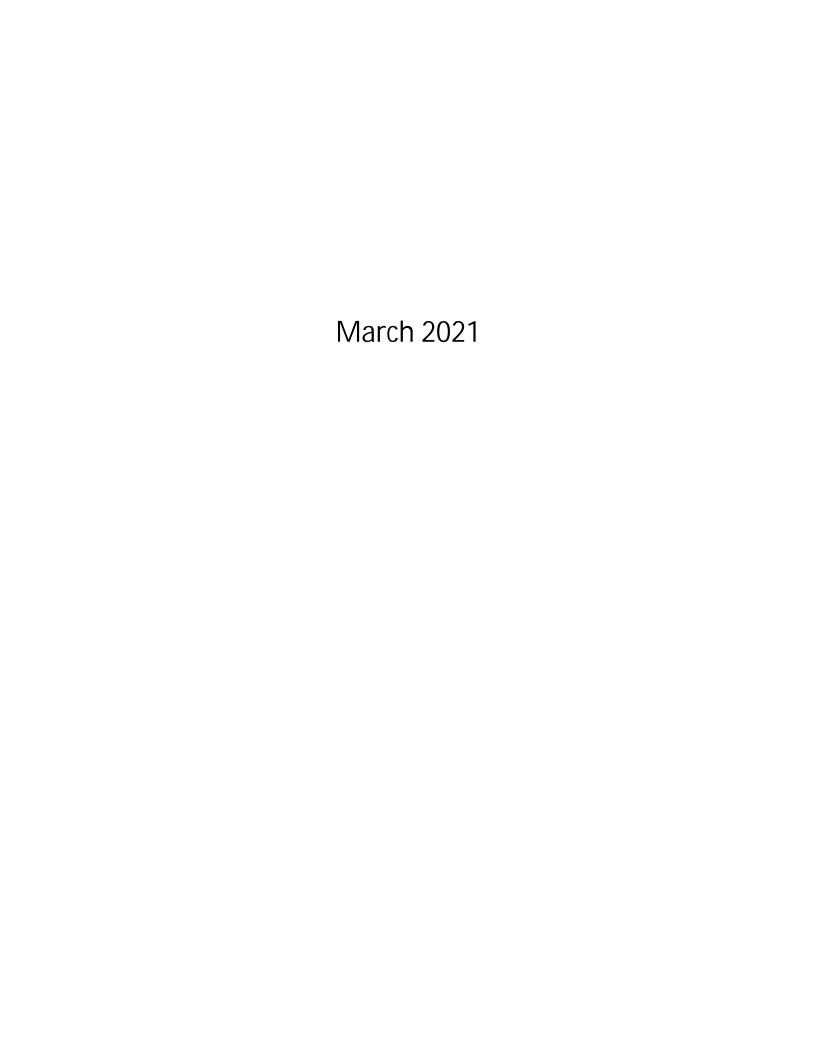
1

Client Contact	Project Manager:	nager: Che L	1 177	7 2	Site Contact:	1 1	Date: 2 12.3	121	COC No:	
	Tel/Email:	120 0	3	13	Lab Contact:		Carrier:	7	t of t cocs	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W. R. Analysis Turnaround Time	nalysis Turr	naround T	1				Sar		
Morney: 16 24. 19067	CALENDAR DAYS	IR DAYS	WORK	WORKING DAYS	50			For	For Lab Use Only:	
e. 2/5-2/09-	TAT	TAT if different from Below		210	5: 29 (N)			Wa	Walk-in Client:	
Project Name: (140 000 - 700)		2 weeks 1 week	seks						odarping.	
Site: NY22 PO# 502 0005 494		2 days 1 day	y syl			200		go	Job / SDG No.:	
	Sample Date	Sample (	Sample Type (C=Comp, G=Grab)	# of Watrix Cont.	Filtered Sa	; / .6			Sample Specific Notes:	;;
5 14 lunt	2/22/2	SHEO	05	8	1 3 1 1					
Taplant	-	2186	P	7 13	6 NM1311					
Tio Black	<b>&gt;</b>	١		3	- 2					
								Custody	dy	
							480-181	361 Citain 5		
				+						
				+						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6=	5=NaOH; 6=	= Other								
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Sertion if the lab is to dispose of the sample.	se List any EF	A Waste Co	odes for th	e sample in		il ( A fee may b	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	les are retained lon	nger than 1 month)	
Non-Hazard Flammable Skin Irritant	Poison B		Unknown		Return to Client		Chisposal by Lab	Archive for	Months	
Special Instructions/QC Requirements & Comments:	***						6	4 # 1	4	
Custody Seals Intact: Yes No	Custody Seal No.:	al No.:			Coole	Cooler Temp. (°C): Obs'd	bs'd: Corr'd		herm ID No.:	
Jun 1/4	Company	con		Date/Time:	Received by:		Сотрапу:	Dat	Date/Time:	
Relinquished by:	Company:			Date/Time:	Received by:	•	Company:	Dat	Date/Time:	
Relinquished by:	Company:			Date/Time:	Received In Laboratory by:	(L)	Company.	Dat	Date/Time: 2 23121 1(	STO

Environment Testing TestAmerica

420213 \*\* eurofins

**Chain of Custody Record** 



#### 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: Clear, 58 F Date: <u>03/25/2021</u> Arrival Time: <u>08:30</u> Departure Time: 15:30 Reason for Service: Inspect system and perform monthly sampling **Inspection Items: Comments:** OK: X Site Appearance/Condition See comments section. **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 Shed flooded with roughly 4" of water. **Building Heater** $\mathbf{X}$ Breaker turned on. Was off on arrival. X Phone System Disconnected Exhaust Fan Could not get fan to work. Fire Extinguisher X First Aid & Eye Wash $\mathbf{X}$

Groundwater Treatment System		
Air Stripper	X	Ratchet straps are used to keep the trays together. Several of the clips for the trays are rusted/broken.
Iron Removal Filter	X	Tank in-line but filter media removed; not required.
Flow Meters	X	See Notes.
Gauges	X	
Stripper Blower	X	
Indication of Alarm	X	
Groundwater Treatment Wells		
EW-1 Pump	X	
EW-1 Transducer	X	
EW-1 Flow Meter	X	
EW-2 Pump	X	
EW-2 Transducer	X	
EW- 2 Flow Meter	X	
EW-3 Pump	X	
EW-3 Transducer	X	
EW-3 Flow Meter	X	
Effluent Discharge		
Outfall	X	System was on upon arrival. There was minimal discharge at outfall. Dug out outfall and rerouted discharge pipe in shed through the wall to bypass clogged elbow pipe. Resulted in adequate discharge at outfall.
Cleanout	X	Iron removal tank was full up to the bottom of the discharge pipe.

Instrumentation/Readings:	
EW-1	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	
Flow Meter Reading	<u>8,444,688</u> Gallons
EW-2	
Pumping Rate	0GPM (see Notes section)
Water Level Above Transducer	<u>171</u> Inches
Flow Meter Reading	<u>28,528,520</u> Gallons
EW-3	
Pumping Rate	GPM (see Notes section)
Water Level Above Transducer	Inches
Flow Meter Reading	<u>15,696,380</u> Gallons
Air Stripper	
Stripper Blower Pressure	<u>17.5</u> Inches H2O
Effluent Flow	
Total System Meter Reading	<u>71,986,517</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 today and the monthly monitoring samples were collected. Samples were delivered directly to Eurofins TestAmerica, Amherst, NY following collection.

Total system flow on system totalizer flow meter timed at 3.5 gpm. During visit, individually closed EW-1, EW-2, and EW-3 influent valve 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.

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

The AS building overhead door flashing needs replacement.

The gate leading to the outfall is becoming overgrown by vegetation.

The most recent round of water levels (1Q2021) were collected today, 3/25/21.

The most recent acid wash was performed today, 3/25/21 by AECOM.

Table 1
March 25, 2021 Summary of Influent and Effluent Data

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

		Conce	entration			Mass Loading	
Parameters	Influent	Effluent	Discharge Limitations	Units	Effluent	Discharge Limitations	Units
Flow <sup>*</sup> pH	6,340 6.9	6,340 7.5	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	< 18 < 19 < 23 < 24 < 15 < 35 31 < 34 < 24 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	< 0.0003 < 0.0003 < 0.0003 < 0.0003 < 0.0003 < 0.0003 < 0.0003 < 0.0003 < 0.0003	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 13.6	4,800 111	3,000 20	ug/L mg/L	0.25 5.88	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 February 23, 2021 through March 25, 2021.

#### Table 2 March 25, 2021 Summary of Influent and Effluent Data

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

Instrumen	atation/Readings:	Current Report 3/25/2021	units	Prior Report 2/23/2021
2,,, 1	Pumping Rate	0	GPM	0
	Water Level Above Transducer	267	Inches	266
	Flow Meter Reading	8,444,688	gallons	8,444,688
EW-2				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	171	Inches	168
	Flow Meter Reading	28,528,520	gallons	28,528,520
<i>EW-3</i>				
	Pumping Rate	0	GPM	0
	Water Level Above Transducer	192	Inches	187
	Flow Meter Reading	15,696,380	gallons	15,696,380
Air Strippe	er e			
	Stripper Blower Pressure	17.5	inches H <sub>2</sub> O	17.5
Effluent F	low			
	Total System Meter Reading	71,986,517	gallons	71,783,625
	Average System Flow Since Prior Report	6,340	gpd	
		264.2	gph	
		4.4	gpm	
	Influent o-Chlorotoluene concentration	2,100	ug/L	
	Current month mass removal	1.6	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: 480-182603-1 Client Project/Site: ChemTrol Site

Sampling Event: ChemTrol Monthly Groundwater

#### For:

Waste Management 600 New Ludlow Road South Hadley, Massachusetts 01075

Attn: Ryan Donovan

hately Fergisan

Authorized for release by: 4/9/2021 9:35:04 PM

Katelyn Ferguson, Project Manager I katelyn.ferguson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager (484)685-0864

Orlette.Johnson@Eurofinset.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.

Client: Waste Management Project/Site: ChemTrol Site

Laboratory Job ID: 480-182603-1

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#### **Definitions/Glossary**

Client: Waste Management Job ID: 480-182603-1

Project/Site: ChemTrol Site

**Qualifiers** 

**GC/MS VOA** 

F1 MS and/or MSD recovery exceeds control limits.

**General Chemistry** 

Qualifier Qualifier Description

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

Glossary

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

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins TestAmerica, Buffalo

Page 3 of 17 4/9/2021

#### **Case Narrative**

Client: Waste Management

Job ID: 480-182603-1

Project/Site: ChemTrol Site

Job ID: 480-182603-1

Laboratory: Eurofins TestAmerica, Buffalo

**Narrative** 

Job Narrative 480-182603-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/26/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

#### GC/MS VOA

Method 624.1: The following samples were diluted to bring the concentration of target analytes within the calibration range: Influent (480-182603-2), (480-182603-D-2 MS) and (480-182603-D-2 MSD). Elevated reporting limits (RLs) are provided.

Method 624.1: The results reported for the following sample does not concur with results previously reported for this site: Influent (480-182603-2). Reanalysis was performed, and the results confirmed.

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

#### **Metals**

Method 200.7 Rev 4.4: The Total Iron result reported for the following sample did not concur with results previously reported for this site: Effluent (480-182603-1). Reanalysis was performed, and the result confirmed.

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

#### **General Chemistry**

Method SM 2540D: The results reported for the following sample do not concur with results previously reported for this site: Effluent (480-182603-1). Reanalysis was performed, and the result(s) confirmed.

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 (480-182603-1) and Influent (480-182603-2).

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

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## **Detection Summary**

Client: Waste Management Job ID: 480-182603-1

Project/Site: ChemTrol Site

Client Sample ID: Effluent	Lab Sample ID: 480-182603-1
Chone Campio IB: Emaone	Eus Guilipio 15: 400 102000

Analyte Iron	Result Qualifier 4800	<b>RL</b> 50.0	MDL Unit ug/L	Dil Fac D	Method 200.7 Rev 4.4	Prep Type Total
Total Suspended Solids	111	4.0	mg/L	1	SM 2540D	Recoverable Total/NA
pH	7.5 HF	0.1	SU	1	SM 4500 H+ B	Total/NA
Temperature	19.2 HF	0.001	Degrees C	1	SM 4500 H+ B	Total/NA

## Client Sample ID: Influent Lab Sample ID: 480-182603-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	31		24		ug/L	40	_	624.1	Total/NA
o-Chlorotoluene	2100	F1	13		ug/L	40		624.1	Total/NA
Iron	1090		50.0		ug/L	1		200.7 Rev 4.4	Total
									Recoverable
Total Suspended Solids	13.6		4.0		mg/L	1		SM 2540D	Total/NA
pH	6.9	HF	0.1		SU	1		SM 4500 H+ B	Total/NA
Temperature	18.9	HF	0.001		Degrees C	1		SM 4500 H+ B	Total/NA

## Client Sample ID: Trip Blank Lab Sample ID: 480-182603-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Waste Management Job ID: 480-182603-1

Project/Site: ChemTrol Site

Date Received: 03/26/21 08:00

**Temperature** 

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

Result Qualifier

19.2 HF

**Client Sample ID: Effluent** Lab Sample ID: 480-182603-1 Date Collected: 03/25/21 08:00

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			03/31/21 17:36	1
1,1-Dichloroethane	ND		5.0		ug/L			03/31/21 17:36	1
1,1-Dichloroethene	ND		5.0		ug/L			03/31/21 17:36	1
Benzene	ND		5.0		ug/L			03/31/21 17:36	1
Chlorobenzene	ND		5.0		ug/L			03/31/21 17:36	1
Chloroethane	ND		5.0		ug/L			03/31/21 17:36	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/31/21 17:36	1
Toluene	ND		5.0		ug/L			03/31/21 17:36	1
Trichloroethene	ND		5.0		ug/L			03/31/21 17:36	1
o-Chlorotoluene	ND		5.0		ug/L			03/31/21 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					03/31/21 17:36	1
4-Bromofluorobenzene (Surr)	100		76 - 123					03/31/21 17:36	1
Toluene-d8 (Surr)	99		77 - 120					03/31/21 17:36	1

Iron	4800		50.0	ι	ıg/L		03/31/21 09:10	03/31/21 14:32	1
General Chemistry Analyte	Result	Qualifier	RL	RL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	111		4.0		ng/L		<u> </u>	04/01/21 16:10	1
pH	7.5	HF	0.1	5	SU			03/30/21 16:52	1

0.001

RL

MDL Unit

Degrees C

D

**Prepared** 

Analyzed

03/30/21 16:52

4/9/2021

Dil Fac

Client: Waste Management Job ID: 480-182603-1

Project/Site: ChemTrol Site

Client Sample ID: Influent Lab Sample ID: 480-182603-2

Date Collected: 03/25/21 09:30 Matrix: Water Date Received: 03/26/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		15		ug/L			03/31/21 18:00	40
1,1-Dichloroethane	31		24		ug/L			03/31/21 18:00	40
1,1-Dichloroethene	ND		34		ug/L			03/31/21 18:00	40
Benzene	ND		24		ug/L			03/31/21 18:00	40
Chlorobenzene	ND		19		ug/L			03/31/21 18:00	40
Chloroethane	ND		35		ug/L			03/31/21 18:00	40
cis-1,2-Dichloroethene	ND		23		ug/L			03/31/21 18:00	40
Toluene	ND		18		ug/L			03/31/21 18:00	40
Trichloroethene	ND		24		ug/L			03/31/21 18:00	40
o-Chlorotoluene	2100	F1	13		ug/L			03/31/21 18:00	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130					03/31/21 18:00	40
4-Bromofluorobenzene (Surr)	101		76 - 123					03/31/21 18:00	40
Toluene-d8 (Surr)	99		77 - 120					03/31/21 18:00	40
Method: 200.7 Rev 4.4 - Me	etals (ICP) - Tot	al Recove	rable						
INICUIOU. ZUU. / NEV 4.4 - IVIE					11:4	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	_	ricparca	7 tilaly 20 a	
Analyte	Result 1090	Qualifier	——————————————————————————————————————	MDL	ug/L		03/31/21 09:10	03/31/21 15:02	
Analyte Iron		Qualifier		MDL					
Analyte	1090	Qualifier  Qualifier							1
Analyte Iron General Chemistry	1090		50.0		ug/L		03/31/21 09:10	03/31/21 15:02	
Analyte Iron General Chemistry Analyte	1090 Result		50.0		ug/L Unit		03/31/21 09:10	03/31/21 15:02  Analyzed	Dil Fac

4/9/2021

Client: Waste Management Job ID: 480-182603-1 Project/Site: ChemTrol Site

**Client Sample ID: Trip Blank** 

Lab Sample ID: 480-182603-3 Date Collected: 03/25/21 00:00

**Matrix: Water** 

Date Received: 03/26/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0		ug/L			03/31/21 18:24	1
1,1-Dichloroethane	ND		5.0		ug/L			03/31/21 18:24	1
1,1-Dichloroethene	ND		5.0		ug/L			03/31/21 18:24	1
Benzene	ND		5.0		ug/L			03/31/21 18:24	1
Chlorobenzene	ND		5.0		ug/L			03/31/21 18:24	1
Chloroethane	ND		5.0		ug/L			03/31/21 18:24	1
cis-1,2-Dichloroethene	ND		5.0		ug/L			03/31/21 18:24	1
Toluene	ND		5.0		ug/L			03/31/21 18:24	1
Trichloroethene	ND		5.0		ug/L			03/31/21 18:24	1
o-Chlorotoluene	ND		5.0		ug/L			03/31/21 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130			•		03/31/21 18:24	1
4-Bromofluorobenzene (Surr)	99		76 - 123					03/31/21 18:24	1
Toluene-d8 (Surr)	99		77 - 120					03/31/21 18:24	1

Client: Waste Management Job ID: 480-182603-1

Project/Site: ChemTrol Site

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

Lab Sample ID: MB 480-574557/7

**Matrix: Water** 

Analysis Batch: 574557

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

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,1,1-Trichloroethane ND 5.0 ug/L 03/31/21 14:05 1,1-Dichloroethane ND 5.0 ug/L 03/31/21 14:05 ND 1,1-Dichloroethene 5.0 ug/L 03/31/21 14:05 Benzene ND 5.0 ug/L 03/31/21 14:05 Chlorobenzene ND 5.0 ug/L 03/31/21 14:05 Chloroethane ND 5.0 ug/L 03/31/21 14:05 cis-1,2-Dichloroethene ND 5.0 ug/L 03/31/21 14:05 Toluene ND 5.0 ug/L 03/31/21 14:05 Trichloroethene ND 5.0 ug/L 03/31/21 14:05 o-Chlorotoluene 03/31/21 14:05

MB MB

ND

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 130		03/31/21 14:05	1
4-Bromofluorobenzene (Surr)	103		76 - 123		03/31/21 14:05	1
Toluene-d8 (Surr)	100		77 - 120		03/31/21 14:05	1

5.0

ug/L

Lab Sample ID: LCS 480-574557/5

**Matrix: Water** 

Analysis Batch: 574557

**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	18.4		ug/L		92	52 - 162	
1,1-Dichloroethane	20.0	20.8		ug/L		104	59 - 155	
1,1-Dichloroethene	20.0	20.0		ug/L		100	1 - 234	
Benzene	20.0	20.0		ug/L		100	37 - 151	
Chlorobenzene	20.0	20.3		ug/L		102	37 - 160	
Chloroethane	20.0	17.5		ug/L		87	14 - 230	
Toluene	20.0	20.0		ug/L		100	47 - 150	
Trichloroethene	20.0	20.5		ug/L		102	71 - 157	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 130
4-Bromofluorobenzene (Surr)	102		76 - 123
Toluene-d8 (Surr)	100		77 - 120

•	Sample Sample	Spike	MS MS	%Rec.
Analysis Batch: 574557				
Matrix: Water				Prep Type: Total/NA
Lab Sample ID: 480-182603-2	2 MS			Client Sample ID: Influent

	Sample S	Sample	Spike	MS	MS				%Rec.	
Analyte	Result (	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	ND		800	868	-	ug/L		108	52 - 162	
1,1-Dichloroethane	31		800	873		ug/L		105	59 - 155	
1,1-Dichloroethene	ND		800	873		ug/L		109	1 - 234	
Benzene	ND		800	845		ug/L		106	37 - 151	
Chlorobenzene	ND		800	844		ug/L		105	37 - 160	
Chloroethane	ND		800	865		ug/L		108	14 - 230	
Toluene	ND		800	839		ug/L		105	47 - 150	
Trichloroethene	ND		800	836		ug/L		105	71 - 157	

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Job ID: 480-182603-1

Client: Waste Management Project/Site: ChemTrol Site

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

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

Lab Sample ID: 480-182603-2 MSD

**Matrix: Water** 

**Analysis Batch: 574557** 

**Client Sample ID: Influent** Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	MD		800	833		ug/L		104	52 - 162	4	15
1,1-Dichloroethane	31		800	846		ug/L		102	59 - 155	3	15
1,1-Dichloroethene	ND		800	818		ug/L		102	1 - 234	6	15
Benzene	ND		800	779		ug/L		97	37 - 151	8	15
Chlorobenzene	ND		800	822		ug/L		103	37 - 160	3	15
Chloroethane	ND		800	788		ug/L		99	14 - 230	9	15
Toluene	ND		800	804		ug/L		101	47 - 150	4	15
Trichloroethene	ND		800	804		ug/L		101	71 - 157	4	15

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 98 68 - 130 4-Bromofluorobenzene (Surr) 101 76 - 123 Toluene-d8 (Surr) 101 77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-574472/1-A

**Matrix: Water** 

Analyte

Iron

Iron

**Analysis Batch: 574643** 

MB MB

RL

50.0

Result Qualifier

ND

**Client Sample ID: Method Blank Prep Type: Total Recoverable** Prep Batch: 574472

Prepared Analyzed Dil Fac 03/31/21 09:10 03/31/21 14:13

**Prep Type: Total Recoverable** 

**Client Sample ID: Effluent** 

**Client Sample ID: Effluent** 

**Prep Type: Total Recoverable** 

Prep Batch: 574472

Prep Batch: 574472

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 480-574472/2-A

**Matrix: Water** 

Analysis Batch: 574643

Analyte

Spike	LCS	LCS				%Rec.
Added	Result	Qualifier	Unit	D	%Rec	Limits
10000	9975		ug/L		100	85 - 115

**MDL** Unit

ug/L

Lab Sample ID: 480-182603-1 MS

**Matrix: Water** 

Analysis Batch: 5/4643				
	Sample Sample	Spike	MS MS	Q
Analyte	Result Qualifier	Added	Result Qualifier Un	it D %Rec I

%Rec. Limits Iron 4800 10000 14540 ug/L 70 - 130

Lab Sample ID: 480-182603-1 MSD

Matrix: Water	Analysis Batch: 574643 Sample Sample Spike MSD MSD				F	<b>Prep Ty</b>	pe: Total	Recove	rable		
Analysis Batch: 574643									Prep Ba	atch: 57	74472
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Iron	4800		10000	14630		ug/L		98	70 - 130	1	20

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Job ID: 480-182603-1

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

**Prep Type: Total/NA** 

Client: Waste Management Project/Site: ChemTrol Site

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

Lab Sample ID: MB 480-574371/1 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 574371

MB MB Result Qualifier RL **RL** Unit Analyzed Dil Fac Analyte D Prepared 4.0 03/30/21 13:07 **Total Suspended Solids** ND mg/L

Lab Sample ID: LCS 480-574371/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 574371

Spike LCS LCS %Rec. Added Result Qualifier Unit D %Rec Limits 2240 88 - 110 **Total Suspended Solids** 2177 mg/L 97

Lab Sample ID: MB 480-574767/1 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 574767** 

MB MB

Result Qualifier RL **RL** Unit Analyte Prepared Analyzed Dil Fac Total Suspended Solids  $\overline{\mathsf{ND}}$ 4.0 mg/L 04/01/21 16:10

Lab Sample ID: LCS 480-574767/2

**Matrix: Water** 

**Analysis Batch: 574767** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 2230 2224 mg/L 100 88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-574527/1

**Matrix: Water** 

**Analysis Batch: 574527** 

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

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## **QC Association Summary**

Client: Waste Management Job ID: 480-182603-1 Project/Site: ChemTrol Site

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

#### Analysis Batch: 574557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182603-1	Effluent	Total/NA	Water	624.1	
480-182603-2	Influent	Total/NA	Water	624.1	
480-182603-3	Trip Blank	Total/NA	Water	624.1	
MB 480-574557/7	Method Blank	Total/NA	Water	624.1	
LCS 480-574557/5	Lab Control Sample	Total/NA	Water	624.1	
480-182603-2 MS	Influent	Total/NA	Water	624.1	
480-182603-2 MSD	Influent	Total/NA	Water	624.1	

#### **Metals**

#### **Prep Batch: 574472**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182603-1	Effluent	Total Recoverable	Water	200.7	_
480-182603-2	Influent	Total Recoverable	Water	200.7	
MB 480-574472/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 480-574472/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
480-182603-1 MS	Effluent	Total Recoverable	Water	200.7	
480-182603-1 MSD	Effluent	Total Recoverable	Water	200.7	

#### **Analysis Batch: 574643**

Lab Sample ID 480-182603-1	Client Sample ID  Effluent	Prep Type  Total Recoverable	Matrix Water	Method 200.7 Rev 4.4	Prep Batch 574472
480-182603-2	Influent	Total Recoverable	Water	200.7 Rev 4.4	574472
MB 480-574472/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	574472
LCS 480-574472/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	574472
480-182603-1 MS	Effluent	Total Recoverable	Water	200.7 Rev 4.4	574472
480-182603-1 MSD	Effluent	Total Recoverable	Water	200.7 Rev 4.4	574472

#### **General Chemistry**

#### **Analysis Batch: 574371**

Lab Sample ID 480-182603-2	Client Sample ID Influent	Prep Type Total/NA	Matrix Water	Method SM 2540D	Prep Batch
MB 480-574371/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-574371/2	Lab Control Sample	Total/NA	Water	SM 2540D	

#### **Analysis Batch: 574527**

Lab Sample ID 480-182603-1	Client Sample ID Effluent	Prep Type Total/NA	Matrix Water	Method SM 4500 H+ B	Prep Batch
480-182603-2	Influent	Total/NA	Water	SM 4500 H+ B	
LCS 480-574527/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

#### **Analysis Batch: 574767**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182603-1	Effluent	Total/NA	Water	SM 2540D	
MB 480-574767/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-574767/2	Lab Control Sample	Total/NA	Water	SM 2540D	

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#### **Lab Chronicle**

Client: Waste Management

Project/Site: ChemTrol Site

Job ID: 480-182603-1

Client Sample ID: Effluent

Lab Sample ID: 480-182603-1

**Matrix: Water** 

Date Collected: 03/25/21 08:00 Date Received: 03/26/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	574557	03/31/21 17:36	WJD	TAL BUF
Total Recoverable	Prep	200.7			574472	03/31/21 09:10	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	574643	03/31/21 14:32	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	574767	04/01/21 16:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	574527	03/30/21 16:52	KEB	TAL BUF

Client Sample ID: Influent Lab Sample ID: 480-182603-2

Date Collected: 03/25/21 09:30 Matrix: Water

Date Received: 03/26/21 08:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		40	574557	03/31/21 18:00	WJD	TAL BUF
Total Recoverable	Prep	200.7			574472	03/31/21 09:10	KMP	TAL BUF
Total Recoverable	Analysis	200.7 Rev 4.4		1	574643	03/31/21 15:02	AMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	574371	03/30/21 13:07	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	574527	03/30/21 16:54	KEB	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-182603-3

Date Collected: 03/25/21 00:00 Matrix: Water

Date Received: 03/26/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	574557	03/31/21 18:24	WJD	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
Project/Site: ChemTrol Site

Job ID: 480-182603-1

## Laboratory: Eurofins TestAmerica, Buffalo

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

Authority New York		Program	Identification Number	Expiration Date	
		NELAP	10026	04-01-22	
0 ,	The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include agency does not offer certification.				
Analysis Method	Prep Method	Matrix	Analyte		
624.1		Water	o-Chlorotoluene		
		Water	На		
SM 4500 H+ B		vvalci	ριι		

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## **Method Summary**

Client: Waste Management

Project/Site: ChemTrol Site

Job ID: 480-182603-1

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

Job ID: 480-182603-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset I
480-182603-1	Effluent	Water	03/25/21 08:00	03/26/21 08:00	
480-182603-2	Influent	Water	03/25/21 09:30	03/26/21 08:00	
480-182603-3	Trip Blank	Water	03/25/21 00:00	03/26/21 08:00	

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**Chain of Custody Record** 

10 Hazelwood Drive

Environment Testing America

eurofins ...

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

Client Information

Waste Management

Chad Moose

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Effluent Influent Trip Blank

Sample Identification

cmoose@wm.com

New York

State, Zip: PA, 19067

Morrisville

quished by:

guistrad by: