O&M, Inc. Environmental Solutions

January 26, 2022

Ms. Charlotte Theobald NYSDEC-Region 8 6274 East Avon-Lima Road Avon, NY 14414

RE: 2021 Periodic Review Report

Brewer Road Landfill - Waterloo, NY

W.R. Grace & Co. - Conn.

Site No. 850001B

Dear Ms. Theobald,

Enclosed is Periodic Review Report for the Brewer Road Landfill in Waterloo, NY for the period of January to December 2021.

This submittal includes the analytical results for the groundwater samples collected, groundwater level measurements, monthly precipitation data, the quantity of leachate removed for offsite disposal, site inspection reports as well as the Institutional and Engineering Controls Certification Form.

If you have any questions about the report, please call me at (860) 987-9975 or Dave Fuerst at (865) 691-6254.

Sincerely,

Ryan Malone Project Manager

W Mar

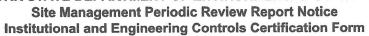
Enclosures

CC: Dave Fuerst/O & M Inc. w/Appendices

Paul Bucens/W.R. Grace & Co. – Conn. w/Appendices Nyce Madriaga/W.R. Grace & Co.-Conn. w/Appendices



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION





Site	Site Details a No. 850001B	Box 1						
Site	e Name Evans Chemetics - Brewer Road Site							
City Cor Site	e Address: Brewer Road Zip Code: 13165 y/Town: Waterloo unty: Seneca e Acreage: 4.900 porting Period: February 10, 2021 to February 10, 2022							
		YES	NO					
1.	Is the information above correct?	Ù						
	If NO, include handwritten above or on a separate sheet.							
2.	Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?							
3.	Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?							
4.	Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		9					
	If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.)						
5.	Is the site currently undergoing development?							
		Box 2						
		YES	NO					
6.	Is the current site use consistent with the use(s) listed below? Closed Landfill							
7.	Are all ICs in place and functioning as designed?							
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.							
A	Corrective Measures Work Plan must be submitted along with this form to address t	these iss	sues.					
Sid	gnature of Owner. Remedial Party or Designated Representative Date							

SITE NO. 850001B

Description of Institutional Controls

Parcel

Owner

Institutional Control

18-1-72

WR Grace & Co.- Conn.

O&M Plan

Low permeability cover: Gas venting layer, soil barrier layer, barrier protection layer, and topsoil.

Groundwater Cutoff Wall: Slurry trench method.

Leachate Collection System: Collection trench, lift station, underground storage tank, liquid level switches, submersible pumps, alarm system.

Box 4

Description of Engineering Controls

Parcel 18-1-72

Engineering Control

Cover System Leachate Collection Subsurface Barriers Fencing/Access Control

	Periodic Review Report (PRR) Certification Statements
1.	I certify by checking "YES" below that:
	 a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
	 b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete. YES NO
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.
	YES NO
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.
	Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS SITE NO. 850001B

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Paul Bucens	at 7500 Grace Drive, Columbia, MD 21044					
print name	print business address					
am certifying as Owner	(Owner or Remedial Party)					
for the Site named in the Site Details Section of this form. 2/11/22						
Signature of Owner, Remedial Party, o Rendering Certification	r Designated Representative Date					

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Aichael A. Miller at 450 Mont brook In Knoxville, TN 3,7 print name print business address	919
am certifying as a Professional Engineer for the W.R.Crace Co.	
Owner or Remedial Party)	
STRIPPER A. MILLERED ENCY. LANGE	
AGRICUL TURE	
malamella 1/24/22	
Signature of Professional Engineer, for the Owner or Date Remedial Party, Rendering Certification Date	
一、可以保证证明的。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

W. R. Grace & Co. - Conn. Brewer Road Landfill Waterloo, NY Site No. 850001B

PERIODIC REVIEW REPORT Reporting period: January - December 2021

I. <u>Introduction</u>

Site Summary

W.R. Grace & Co. – Conn. formerly owned and operated the Evans Chemetics plant in Waterloo, New York. This facility manufactured a variety of specialty chemicals used in the formulation of hair care, photopolymer, and pharmaceutical products. Between 1951 and 1958, Evans Chemetics and Zotos International disposed of off specification hair care products (which were returned by customers of Zotos International) at the Brewer Road Site.

During the time that the Brewer Road site was used for disposal, a majority of the products formulated were distributed by Zotos International. Products which did not meet quality control standards or which were returned by customers of Zotos International were also disposed of at the Brewer Road site. The disposal practices involved discarding of unopened plastic and glass containers of various Zotos International products. Later, disposal methods were modified to include the opening of plastic containers and crushing of glass containers. Disposal of these materials at the Brewer Road site was discontinued in 1958.

Site inspections were performed by the New York State Department of Environmental Conservation (NYSDEC) in 1981 and 1983. The 1983 inspection resulted in a New York State Phase I Summary Report (RECRA Research 1983) identifying the site with a Hazard Ranking System score ranging from 13.5 to 25.9. As a result, (Consent Order # B8-0033-84-07) in September 1988 specifying that a Remedial Investigation/ Feasibility Study (RI/FS) be conducted. In March 1992 NYSDEC issued a Record of Decision (ROD) accepting the FS submitted by Evans Chemetics.

The ROD established the following goals for the remedial program in order to provide protection for human health and the environment at this Site:

- Eliminate direct contact with the waste at the site.
- Prevent migration of contaminants via groundwater.
- Prevent migration of contaminants via surface water.
- Prevent unnecessary impacts upon the wetland area.

Effectiveness of Remedial Program

The results of the monthly site inspections and the annual sampling event indicate the remedial objectives for this Site have been achieved for the 2021 reporting period.

Compliance

The Site is in compliance with the 1994 Operations and Maintenance Plan as amended by NYSDEC approved revisions to the monitoring program.

Recommendations

The remedy remains effective and there are no recommendations.

II. Site Overview

The Brewer Road property encompasses approximately 4.9 acres located in a rural area 1.5 miles northwest of the Village of Waterloo, Seneca County, New York. See **Figure 1** for the Site location map. The site is bordered on the west by Brewer Road and on the south by an auto junkyard. A small intermittent creek is located north of the site and flows to the southeast. The creek flows into the wetland area east of the site. This wetland area discharges to tributaries of Black Brook, which flows south until it enters the Seneca Cayuga Barge Canal approximately 1.5 miles south of the site.

The hydrogeology encountered beneath the site is made of the three units: there is a shallow aquifer which consists of a sand unit and acts as an unconfined aquifer; beneath that is silt and clay aquitard which acts as an obstacle slowing down groundwater moving from the shallow to the deeper aquifer; the deeper unit is a confined aquifer composed of a black and white sand unit. In the shallow aquifer, water is encountered at a depth of four to eight feet below ground surface. The shallow groundwater flows eastward, toward the wetland area, and during periods of elevated groundwater levels discharges to the surface water within the wetland. The deeper aquifer is encountered at a depth of approximately thirty to thirty-five feet below the ground surface. The groundwater in the deeper zone flows generally to the south.

In September 1981, a site inspection of the Brewer Road landfill was conducted by the NYSDEC. This site investigation revealed bottles, tubes and drums scattered on the ground surface. The initial inspection was followed by a second site inspection in June 1983. Following the 1983 site inspection, RECRA Research prepared a Phase I Report of the Brewer Road site. Based on the limited amount of information available during the preparation of the Phase I Report, a more detailed Phase II investigation of the property was deemed necessary by the NYSDEC.

In 1984, Evans Chemetics voluntarily entered into an Administrative Order on Consent with the NYSDEC for a Phase II Investigation at the Brewer Road site. The purpose of this investigation was to assess whether the site posed an existing or potential environmental impact, and to evaluate the extent and magnitude of any indentified contamination.

Results of the Phase II Investigation revealed that the fill material was generally confined to a north-south trending embankment near the center of the site. The fill material consists of broken bottles, plastic tubes and a few 55-gallon drums which contain a solid residue.

Analyses of the soil samples collected as part of the Phase II Investigation identified both heavy metals and base/neutral priority pollutants on the landfill face and down slope from the landfill.

Based on the findings of the Phase II Investigation, NYSDEC reclassified the site from a 2a to a 2 which meant that the site was considered a "significant threat to the public health or environment-action required." Subsequent to the reclassification, the NYSDEC required that a Remedial Investigation/Feasibility Study (RI/FS) be completed.

In September 1988 Evans Chemetics entered into a Consent Order to perform an RI/FS at the site. The field work for the RI was carried out during the late summer and early fall 1989. The results of the samples, taken during the Remedial Investigation indicated the presence of some volatile organics, semi-volatile organics, and metals.

The potential exposure pathways, by which public health and the environment could be impacted, include:

- Migration of contaminants via groundwater to domestic wells in the area.
- Migration of contaminants via surface water and impacting the wetland environment.
- Direct contact to contaminants at the landfill.

The nearest residence using groundwater near the site is located approximately one-quarter mile south and southwest of the site, and these residential wells are generally drawing water from the deeper aquifer. The aquitard below the shallow aquifer is preventing the limited amount of contamination present in the shallow groundwater from readily migrating downward.

The analytical results from the RI indicate that there has been very little migration of contaminants from the landfill. The only potential risk posed by the site involves coming in direct contact with the waste material. In addition, there has been very little migration from the site.

The selected remedy for the Site was presented in the Record of Decision, dated March 1992. The remedy was designed by O'Brien & Gere Engineers, Inc. in 1992 and was constructed between May and September 1993 by Sevenson Environmental Corp. The remedy included:

- ◆ A clay cap installed in accordance with New York Code of Rules and Regulations (NYCRR) Part 360 to eliminate direct contact and reduce the amount of leachate being generated by the infiltration of incident precipitation.
- ♦ A circumferential ground water cutoff wall, installed using slurry methods around the landfill. The ground water cutoff wall is tied into subsurface clay layer and acts to prevent the lateral movement of ground water through the landfill, resulting in a reduction in the amount of leachate generated.
- ♦ A leachate collection trench installed down gradient of the landfill to collect generated leachate. The collected leachate is stored in an on-site underground storage tank and periodically removed for off-site treatment.

- A berm installed down gradient of the leachate collection trench keyed into the subsurface layer. The berm prevents the backup of water from an adjacent wetland into the clay cap.
- A chain link fence installed around the site to limit access.

See **Figure 2** for a Site Plan.

III. Evaluation of Remedy Performance, Effectiveness, and Protectiveness

The 1994 Operations and Maintenance Plan as amended by NYSDEC approved revisions to the monitoring program confirmed by NYSDEC letters dated August 2, 2000 and August 24, 2001 provide the requirements for inspection and monitoring of the Site.

Groundwater Monitoring

The annual groundwater level measurements and groundwater sampling was performed on October 13, 2021. The groundwater samples were analyzed for volatile organic compounds (VOCs) and total metals including manganese, magnesium, and zinc. Overall, the water quality is consistent with prior years.

Groundwater sampling was conducted at monitoring wells, MW-1S, (MW-1S is up-gradient of the landfill), MW-2S, MW-2D, MW-3, MW-4S, and MW-4D on October 13, 2021. With the NYSDEC's approval (correspondence dated March 18, 1996); the requirements in the "Data Collection Quality Assurance Plan" (Appendix B of O & M Manual) were modified per Grace's request of December 1995. Changes to the sampling and analysis program approved by NYSDEC in correspondence dated August 2, 2000, and August 24, 2001, include annual groundwater sampling in the fall using EPA method 601/602 for volatile organics, a reduction in the metals analyte list to manganese, magnesium and zinc, and reduction in water level monitoring from quarterly to annual with the groundwater sampling event. EPA Method 624.1 was used to analyze the groundwater samples.

The VOC results are presented in **Table 1**. All monitoring wells, with the exception of MW-2S and MW-3, resulted in levels below the reporting limit for analytical method 624.1. MW-2S contained Total 1,2 DCE at 21 ug/L and MW-3 contained Total 1,2 DCE at 29 ug/L (the standard for each of cis- and trans- 1,2-DCE is 5 ug/L). Trichloroethylene (TCE) was present at these two wells at an estimated ("J" qualified) concentration of 0.98 J ug/L and 1.9 J ug/L, respectively.

The total metals are presented in **Table 2**. Magnesium results ranged from 15.8 mg/L to 46.9 mg/L. MW-2S (46.9 mg/L) and MW-3 (46.8 mg/L) exceeded the NYS water quality standard (35 mg/L) for magnesium. Zinc concentrations ranged from 0.013 mg/L to 2.0 mg/L with none of the samples above the NYS Class water quality standard of 5 mg/L. Manganese concentrations ranged from 0.011 B mg/L to 0.54 B mg/L. MW-1S (0.51 B mg/L), MW-2S (0.54 B mg/L), MW-3 (0.37 B mg/L), and MW-4S (0.45 B mg/L) exceeded the NYS groundwater standard of 0.3 mg/L for Manganese.

Copies of the Analytical Reports are included in **Appendix A**. Please refer to the Definitions/Glossary page (page 3) of the attached Analytical Reports for a description of the qualifiers.

Groundwater Level Measurements

Figure 3 summarizes water level measurement data from October 1994 through October 2021. The 2021 data is included in **Appendix B**.

Leachate Generation

From January to December 2021, 222,000 gallons of leachate were taken off-site for disposal to the City of Auburn Wastewater Treatment Facility.

Precipitation

Precipitation for the Syracuse airport (NOAA station 14771) from Jan 2011 to December 2021 is presented in **Figure 4** and indicates total precipitation and snowfall totals.

Site Inspections

Site inspections have indicated no problems with the cap, or the groundwater cut off wall. The site inspection checklists are included as **Appendix C**.

IV. Conclusions and Recommendations

The results of the monthly site inspections and the annual sampling event indicate the remedial objectives for this site have been achieved for the 2021 reporting period.

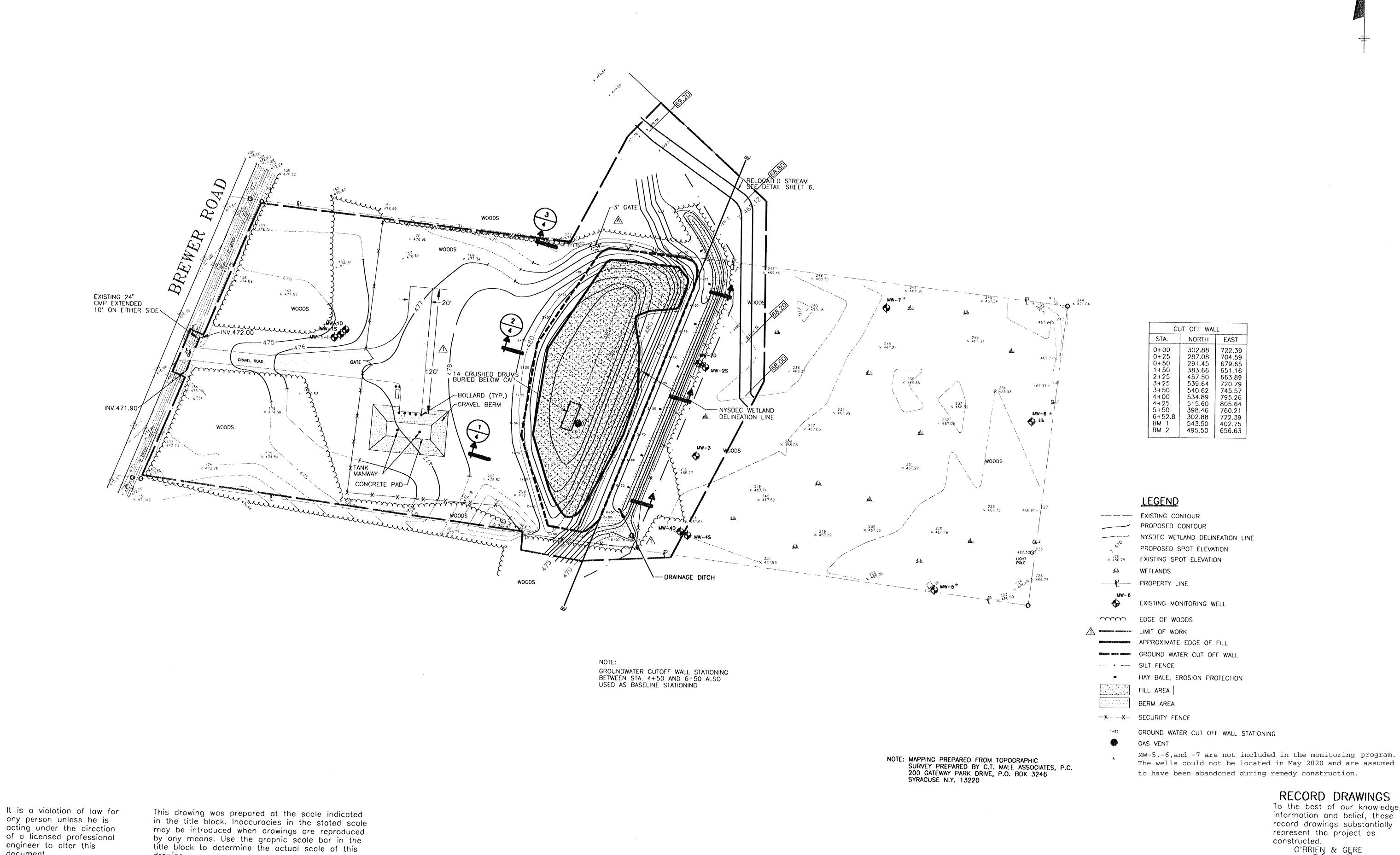
The Site is in compliance with the 1994 Operations and Maintenance Plan as amended by the NYSDEC approved revisions to the monitoring program.

The remedy remains effective and there are no recommendations.

A PRR will be submitted for the 2022 reporting period.



Figure 1 Site Location



RECORD DRAWINGS To the best of our knowledge, information and belief, these

FILE NO.

CUT OFF WALL

1043.014-03RD APRIL 11, 1994

Designed by DIF Checked by SWH Drawn by 11/4/

of a licensed professional

engineer to alter this

document.

4/11/94 RECORD DRAWING AS BID 4/93 1/93 DATE GENERAL REVISIONS REVISION

OBRIENGGERE ENGINEERS, INC.

W.R. GRACE & CO. - CONN. WATERLOO, NEW YORK REMEDIAL DESIGN

FINAL GRADING PLAN

FIGURE 3: Water Level Elevations

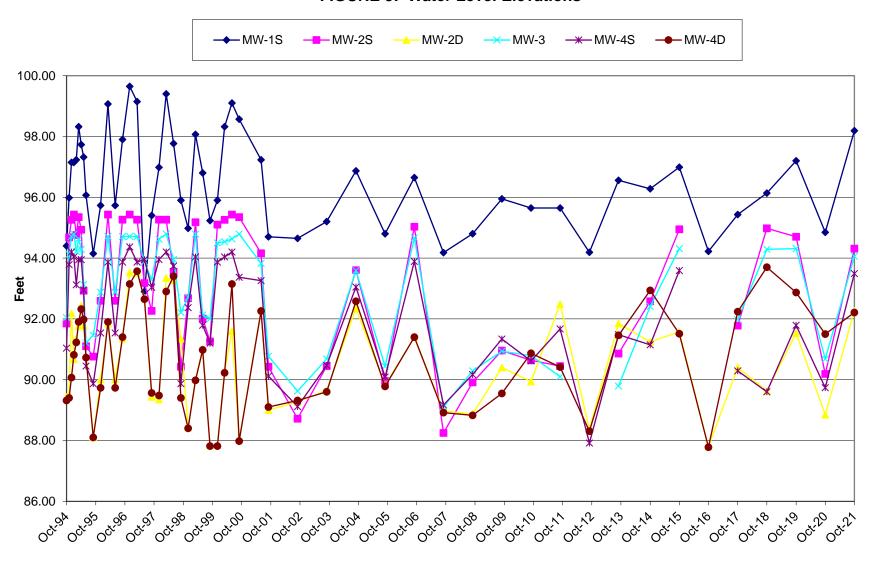


FIGURE 4: Precipitation and Snowfall amounts 2011-2021

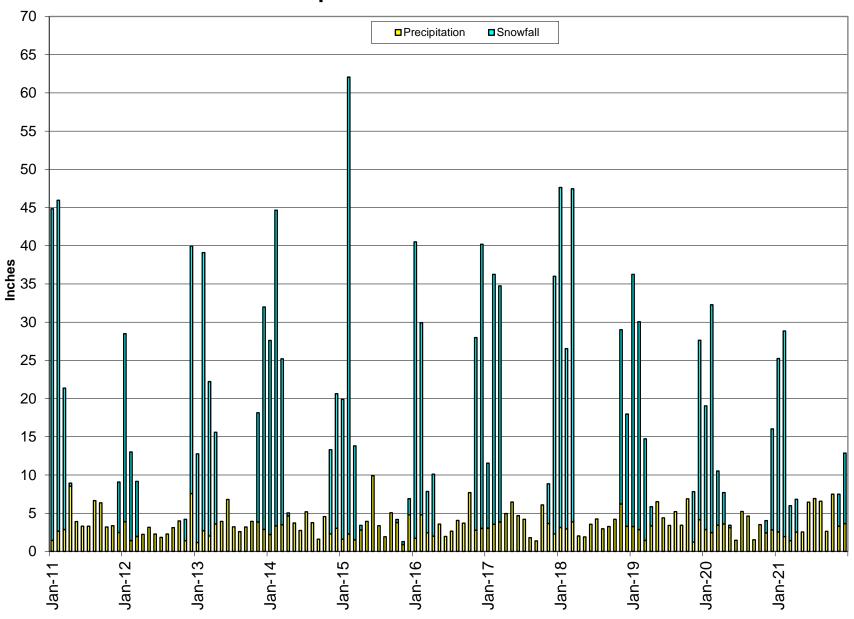


TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-1S	10/4/1989	<10	<5	1 J	<5	<5	<5
	4/18/1990	<1	<1	<1	<1	<1	<1
	4/10/1994	<1	<1	<1	<1	<1	<1
	9/28/1994	<1	<1	<1	<1	<1	<1
	4/5/1995	<1	<1	<1	<1	<1	<1
	9/30/1995	<1	<1	<1	<1	<1	<1
	3/25/1996	<1	<1	<1	<1	<1	<1
	9/26/1996	<1	<1	<1	<1	<1	<1
	3/16/1997	<1	<1	<1	<1	<1	<1
	9/17/1997	<1	<1	<1	<1	<1	<1
	3/26/1998	<1	<1	<1	<1	<1	<1
	9/24/1998	<1	<1	<1	<1	<1	<1
	3/17/1999	<1	<1	<1	<1	<1	<1
	9/29/1999	<1	<1	<1	<1	<1	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	<1	<1	<1	<1	<1	<1
	9/11/2001	<1	<1	<1	<1	<1	<1
	9/3/2002	<1	<1	<1	<1	<1	<1
	9/23/2003	<1	<1	<1	<1	<1	<1
	9/8/2004	<1	<1	<1	<1	<1	<1
	9/13/2005	<1	<1	<1	<1	<1	<1
	9/15/2006	<1	<1	<1	<1	<1	<1
	9/13/2007	<1	<1	<1	<1	<1	<1
	9/25/2008	<10	<5	<5	<5	<5	<5
	9/24/2009	<10	<5	<5	<5	<5	<5
	9/14/2010	<10	<5	<5	<5	<5	<5
	9/27/2011	<10	<6	0.18	<5	<5	<5
	9/27/2012	<2	<2	<1	<1	<1	<1
	9/11/2013	<2	<2	<1	<1	<1	<1
	10/24/2014	<2	<2	<1	<1	<1	<1
	10/27/2015	<5	<10	<5	<5	<5	<5
	10/20/2016	<5	<10	<5	<5	<5	<5
	10/3/2017	<5	<10	<5	<5	<5	<5
	10/29/2018	<5	<10	<5	<5	<5	<5
	10/22/2019	<5	<10	<5	<5	<5	<5
	10/28/2020	<5	70	<5	<5	2.7 J	<5
	2/23/2021 ¹	<5	<10	<5	<5	<5	<5
	10/13/2021	<5	<10	<5	<5	<5	<5

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-2S	10/5/1989	2J	170	1JB	<5	6	<5
	4/18/1990	<1	29	<1	<1	<1	<1
	4/10/1994	<1	14	<1	<1	<1	<1
	9/28/1994	<10	160	<10	<10	<10	<10
	4/5/1995	<1.	69	<1	<1	3	<1
	10/2/1995	<10	180	<10	<10	<10	<10
	3/25/1996	<1	11	<1	<1	<1	<1
	9/26/1996	<1	2	<1	<1	<1	<1
	3/16/1997	<1	45	<1	<1	1	<1
	9/17/1997	<10	182	<10	<10	<10	<10
	3/26/1998	<1	12	<1	<1	<1	<1
	9/24/1998	3	165	<2	<2	<2	<2
	3/17/1999	<1	2	<1	<1	<1	<1
	9/29/1999	8	89	<1	<1	<1	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	3	116	<1	<1	2	<1
	9/11/2001	24	102	<2	<2	<2	<2
	9/3/2002	5	40	<1	<1	<1	<1
	9/23/2003	3	114	<1	<1	2	<1
	9/8/2004	2.2	116	<1	<1	3.8	<1
	9/13/2005	4.26	77.9	<1	<1	<2	<1
	9/15/2006	<2	32	<1	<1	1.24	<1
	9/13/2007- DRY	-	-	-	-	-	-
	9/25/2008- DRY	-	-	-	-	-	-
	9/24/2009	2J	91	<5	<5	4.3 J	<5
	9/14/2010	4.3	99	<5	<5	4.3 J	<6
	9/27/2011	3.6 J	150	0.17J B	<5	4.6 J	<5
	9/27/2012	dry	dry	dry	dry	dry	dry
	9/11/2013	0.91 J	70.4	<1	<1	2.6	<1
	10/24/2014	0.51 J	60.5	<1	<1	2.9	<1
	10/27/2015	<5	23	<5	<5	0.90 J	<5
	10/20/2016-DRY	dry	dry	dry	dry	dry	dry
	10/3/2017	<5	43	<5	<5	1.8 J	<5
	10/29/2018	<5	4.6 J	<5	<5	<5	<5
	10/22/2019	<5	4.4 J	<5	<5	<5	<5
	10/28/2020	<5	69	<5	<5	2.7 J	<5
	2/23/2021 ¹	<5	<10	<5	<5	<5	<5
	10/13/2021	<5	21	<5	<5	0.98 J	<5

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-2D	10/4/1989	<10	<5	<5	<5	<5	<5
	4/18/1990	<1	<1	<1	<1	<1	<1
	4/10/1994	<1	<1	<1	<1	<1	<1.
	4/5/1995	<1	<1	<1	1	<1	<1.
	3/25/1996	<1	<1	<1	<1	<1	<1.
	3/16/1997	<1	<1	<1	<1	<1	<1
	3/26/1998	<1	<1	<1	<1	<1	<1
	3/17/1999	<1	<1	<1	<1	<1	<1
	9/29/1999	<1	<1	<1	<1	<1	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	<1	<1	<1	<1	<1	<1
	9/11/2001	<1	<1	<1	<1	<1	<1
	9/3/2002	<1	<1	<1	<1	<1	<1
	9/23/2003	<1	<1	<1	<1	<1	<1
	9/8/2004	<1	<1	<1	<1	<1	<1
	9/13/2005	<1	<1	<1	<1	<1	<1
	9/15/2006	<1	<1	<1	<1	<1	<1
	9/13/2007	<1	<1	<1	<1	<1	<1
	9/25/2008	<10	<5	<5	<5	<5	<5
	9/24/2009	<10	<5	<5	<5	<5	<5
	9/14/2010	<10	<5	<5	<5	<5	<5
	9/27/2011	<10	<5	<5	<5	<5	<5
	9/27/2012	<2	<2	<1	<1	<1	<1
	9/11/2013	<2	<2	<1	<1	<1	<1
	10/24/2014	<2	<2	<1	<1	<1	<1
	10/27/2015	<5	<10	<5	<5	<5	<5
	10/20/2016	<5	<10	<5	<5	<5	<5
	10/3/2017	<5	<10	<5	<5	<5	<5
	10/29/2018	<5	<10	<5	<5	<5	<5
	10/22/2019	<5	<10	<5	<5	<5	<5
	10/28/2020	<5	<10	<5	<5	<5	<5
	10/13/2021	<5	<10	<5	<5	<5	<5

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-3	10/4/1989	<10	34	<5	<5	17	<5
	4/18/1990	<1	<1	<1	<1	<1	<1
	4/10/1994	<1	<1	<1	<1	<1	<1
	9/28/1994	<1	7	<1	<1	4	<1
	4/5/1995	<1	4	<1	<1	3	<1
	9/30/1995	<1	11	<1	<1	4	<1
	3/25/1996	<1	<1	<1	<1	<1	<1
	9/26/1996	<1	1	<1	<1	2	<1
	3/16/1997	<1	1	<1	<1	1	<1
	9/17/1997	<1	6	<1	<1	4	<1
	3/26/1998	<1	<1	<1	<1	1	<1
	9/24/1998	<1	5	<1	<1	4	<1
	3/17/1999	<1	<1	<1	<1	<1	<1
	9/29/1999	<1	3	<1	<1	6	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	<1	5	<1	<1	5	<1
	9/11/2001	<1	5	<1	<1	3	<1
	9/3/2002	<1	<1	<1	<1	<1	<1
	9/23/2003	<1	4	<1	<1	4	<1
	9/8/2004	<1	<1	<1	<1	1.8	<1
	9/13/2005	<1	5.94	<1	<1	2.69	<1
	9/15/2006	<1	<1	<1	<1	<1	<1
	9/13/2007	-	-	-	-	-	-
	9/25/2008	<9	6.5 J	<5	<5	3.7 J	<4
	9/24/2009	0.21J	7.2	<5	<5	3.9 J	<5
	9/14/2010	<10	8	<5	<5	<5	<5
	9/27/2011	<10	5.8	<5	<5	5.6	<6
	9/27/2012	dry	dry	dry	dry	dry	dry
	9/11/2013	<2	9	<1	<1	5.8	<1
	10/24/2014	<2	10.8	<1	<1	4.7	<1
	10/27/2015	<5	<10	<5	<5	<5	<5
	10/20/2016	dry	dry	dry	dry	dry	dry
	10/3/2017	<5	29.0	<5	<5	8.3	<5
	10/29/2018	<5	<10	<5	<5	<5	<5
	10/22/2019	<5	<10	<5	<5	<5	<5
	10/28/2020	<5	35	<5	<5	4.7 J	<5
	10/13/2021	<5	29	<5	<5	1.9 J	<5

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-4S	10/4/1989	<10	<10	<5	<5	<5	2J
	4/18/1990	<1	<1	<1	<1	<1	<1
	4/10/1994	<1	<1	<1	<1	<1	<1
	9/28/1994	<1	<1	<1	<1	<1	<1
	4/5/1995	<1	<1	<1	<1	<1	<1
	9/30/1995	<1	<1	<1	<1	<1	<1
	3/25/1996	<1	<1	<1	<1	<1	<1
	9/26/1996	<1	<1	<1	<1	<1	<1
	3/16/1997	<1	<1	<1	<1	<1	<1
	9/17/1997	<1	<1	<1	<1	<1	<1
	3/26/1998	<1	<1	<1	<1	<1	<1
	9/24/1998	<1	<1	<1	<1	<1	<1
	4/12/1999	<1	<1	<1	<1	<1	<1
	9/29/1999	<1	<1	<1	<1	<1	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	<1	<1	<1	<1	<1	<1
	9/11/2001	<1	<1	<1	<1	<1	<1
	9/3/2002	<1	<1	<1	<1	<1	<1
	9/23/2003	<1	<1	<1	<1	<1	<1
	9/8/2004	<1	<1	<1	<1	<1	<1
	9/13/2005	<1	<1	<1	<1	<1	<1
	9/15/2006	<1	<1	<1	<1	<1	<1
	9/13/2007	<1	<1	<1	<1	<1	<1
	9/25/2008	<10	<5	<5	<5	<5	<5
	9/24/2009	<10	<5	<5	<5	<5	<5
	9/14/2010	<10	<5	<5	<5	<5	<5
	9/27/2011	<10	<5	<5	<5	<5	<5
	9/27/2012	<2	<2	<1	<1	<1	<1
	9/11/2013	<2	<2	<1	<1	<1	<1
	10/24/2014	<2	<2	<1	<1	<1	<1
	10/27/2015	<5	<10	<5	<5	<5	<5
	10/20/2016-DRY	dry	dry	dry	dry	dry	dry
	10/3/2017	<5	<10	<5	<5	<5	<5
	10/29/2018	<5	<10	<5	<5	<5	<5
	10/22/2019	<5	<10	<5	5	<5	<5
	10/28/2020	<5	<10	<5	<5	<5	<5
	10/13/2021	<5	<10	<5	<5	<5	<5

TABLE 1 - GROUNDWATER ANALYTICAL RESULTS-BREWER ROAD SITE, WATERLOO, NY (Volatiles in ug/l)

	Date	Vinyl					
Well	Analyzed	Chloride (ug/L)	Total-1,2-DCE (ug/L)	Toluene (ug/L)	Chloroform (ug/L)	Trichloroethylene (ug/L)	Tetrachloroethylene (ug/L)
MW-4D	10/4/1989	<10	<5	1J	<5	<5	<5
	4/18/1990	<1	<1	NA	<1	<1	<1
	4/10/1994	<1	<1	<1	<1	<1	<1.
	4/5/1995	<1	<1	<1	<1	<1	<1
	3/25/1996	<1	<1	<1	<1	<1	<1
	3/16/1997	<1	<1	<1	<1	<1	<1
	3/26/1998	<1	<1	<1	<1	<1	<1
	3/17/1999	<1	<1	<1	<1	<1	<1
	9/29/1999	<1	<1	<1	<1	<1	<1
	3/16/2000	<1	<1	<1	<1	<1	<1
	9/30/2000	<1	<1	<1	<1	<1	<1
	9/11/2001	<1	<1	<1	<1	<1	<1
	9/3/2002	<1	<1	<1	<1	<1	<1
	9/23/2003	<1	<1	<1	<1	<1	<1
	9/8/2004	<1	<1	<1	<1	<1	<1
	9/13/2005	<1	<1	<1	<1	<1	<1
	9/15/2006	<1	<1	<1	<1	<1	<1
	9/13/2007	<1	<1	<1	<1	<1	<1
	9/25/2008	<10	<5	<5	<5	<5	<5
	9/24/2009	<10	<5	<5	<5	<5	<5
	9/14/2010	<10	<5	<5	<5	<5	<5
	9/27/2011	<10	<5	<5	<5	<5	<5
	9/27/2012	<2	<2	<1	<1	<1	<1
	9/11/2013	<2	<2	<1	<1	<1	<1
	10/24/2014	<2	<2	<1	<1	<1	<1
ĺ	10/27/2015	<5	<10	<5	<5	<5	<5
ĺ	10/20/2016	<5	<10	<5	<5	<5	<5
	10/3/2017	<5	<10	<5	<5	<5	<5
	10/29/2018	<5	<10	<5	<5	<5	<5
	10/22/2019	<5	<10	<5	<5	<5	<5
	10/28/2020	<5	<10	<5	<5	<5	<5
	10/13/2021	<5	<10	<5	<5	<5	<5

Qualifiers:

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Monitoring well was resampled on February 23, 2021 to confirm results from the October 28, 2020 sampling.

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)
MW-1S	10/3/1989	15.2	577	24
	4/18/1990	15.0	510	90
	4/14/1994	<5	0.015	<0.02
	9/29/1994	8.0	0.91	0.08
	3/28/1995	5.0	0.063	<0.02
	10/6/1995	22.0	0.54	0.03
	3/25/1996	7.0	0.27	0.02
	9/19/1996	10.0	0.28	0.02
	3/16/1997	6.0	0.018	< 0.02
	9/17/1997	13.0	0.11	< 0.02
	3/18/1998	7.0	0.15	<0.04
	9/24/1998	13.0	0.13	0.02
	3/17/1999	<5	<0.15	< 0.02
	9/29/1999	15.0	0.19	< 0.02
	3/16/2000	10.0	0.057	< 0.02
	9/26/2000	17.0	1.1	0.07
	9/13/2001	19.0	0.31	<0.02
	9/3/2002	14.0	0.13	0.01
	9/23/2003	24.0	0.47	0.026
	9/8/2004	18.0	0.35	0.02
	9/13/2005	20.0	0.24	0.015
	9/15/2006	12.0	0.49	0.051
	9/13/2007	11.0	0.067	< 0.020
	9/25/2008	13.0	0.071	< 0.04
	9/24/2009	15.0	0.195	0.0061 J
	9/14/2010	13.8	0.13	0.05
	9/27/2011	14.9	0.59	0.013
	9/27/2012	12.2	0.12	<0.010
	9/11/2013	11.7	0.06	<0.010
	10/24/2014	50.4	1.3	0.11
	10/27/2015	12.2	0.33	0.0025 J
	10/20/2016	14.6	1.2 B	0.022
	10/3/2017	16.7	1.5	0.0097 J
	10/29/2018	18.8	1.2	0.044 B
	10/22/2019	20.4	1.2 B	0.033 B
	10/28/2020	66.5	2.4 B	0.11
	10/13/2021	15.8	0.51 B	0.021

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)
MW-2S	10/4/1989	35.0	1,120	135
	4/18/1990	19.0	2,300	30
	4/14/1994	17.	0.54	0.02
	9/29/1994	37.0	0.64	0.36
	3/28/1995	17.0	0.57	0.03
	10/6/1995	29.0	0.42	0.04
	3/25/1996	29.0	0.9	0.02
	9/19/1996	38.0	0.25	0.02
	3/16/1997	37.0	0.42	0.14
	9/17/1997	32.0	0.45	0.03
	3/18/1998	41.0	0.44	0.02
	9/24/1998	33.0	0.47	0.05
	3/17/1999	39.0	0.16	<0.02
	9/29/1999	50.0	0.38	<0.02
	3/16/2000	55.0	0.9	<0.02
	9/26/2000	54.0	1.5	0.03
	9/13/2001	45.0	0.72	0.03
	9/3/2002	62.0	1.6	0.1
	9/23/2003	51.0	0.9	0.064
	9/8/2004	66.0	1.4	0.085
	9/13/2005	50.0	0.96	0.061
	9/15/2006	46.0	0.82	0.074
	9/13/2007-DRY	-	-	-
	9/25/2008-DRY	-	-	-
	9/24/2009	45.5	0.619	0.0088 J
	9/14/2010	54.9	0.982	0.0694
	9/27/2011	44.6	0.72	0.0084
	9/27/2012-DRY	-	-	-
	9/11/2013	42.4	0.79	0.017
	10/24/2014	43.5	0.37	.0057 J
	10/27/2015	44.0	0.02	0.042
	10/20/2016-DRY	Dry	Dry	Dry
	10/3/2017	45.4	0.55	0.0096 J
	10/29/2018	47.3	0.2	0.018 B
	10/22/2019	44.4	0.50 B	0.028 B
	10/28/2020	49.7	0.87 B	0.087
	10/13/2021	46.9	0.54 B	0.036

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)
MW-2D	10/4/1989	62.1	984	116
	4/18/1990	19.0	<50	20
	4/14/1994	20.0	0.058	<0.02
	3/28/1995	17.0	<0.015	< 0.02
	3/25/1996	20.0	0.02	0.03
	3/16/1997	20.0	<0.015	<0.02
	3/18/1998	22.0	<0.018	< 0.02
	3/17/1999	23.0	0.017	< 0.02
	9/29/1999	37.0	0.280	0.04
	3/16/2000	23.0	0.022	< 0.02
	9/26/2000	34.0	0.28	0.08
	9/13/2001	23.0	0.03	< 0.02
	9/3/2002	23.0	<0.05	<0.01
	9/23/2003	22.0	<0.05	<0.01
	9/8/2004	14.0	<0.05	<0.01
	9/13/2005	14.0	<0.015	<0.01
	9/15/2006	15.0	<0.050	0.03
	9/13/2007	22.0	<0.050	< 0.02
	9/25/2008	22.0	0.02	0.008 J
	9/24/2009	17.6	0.0068 J	< 0.025
	9/14/2010	22.1	0.0128	0.05
	9/27/2011	23.6	0.03	0.0056
	9/27/2012	21.4	<0.0025	<0.010
	9/11/2013	14.3	0.0057	.0042 J
	10/24/2014	16.4	<0.0025	<0.010
	10/27/2015	18.0	0.0028 J	<0.01
	10/20/2016	16.0	0.0048 B	0.0029 J
	10/3/2017	16.8	0.0025 J	0.0026 J
	10/29/2018	15.2	0.0046	0.0093 J B
	10/22/2019	23.0	0.024 B	0.0031 J B
	10/28/2020	20.6	0.022 B	0.0039 J
	10/13/2021	19.5	0.011 B	0.013

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)
MW-3	10/3/1989	19.6	579	2,170
	4/18/1990	11.0	170	4,300
	4/14/1994	11.0	0.23	2.2
	9/29/1994	17.0	0.39	0.75
	3/28/1995	10.0	0.16	0.82
	10/6/1995	16.0	0.33	0.5
	3/25/1996	20.0	0.36	3.8
	9/19/1996	23.0	0.52	2.8
	3/16/1997	17.0	0.14	2.6
	9/17/1997	17.0	0.2	1.6
	3/18/1998	24.0	0.22	2.7
	9/24/1998	26.0	0.42	1.1
	3/17/1999	23.0	0.028	3.0
	9/29/1999	32.0	0.14	1.3
	3/16/2000	28.0	0.077	2.7
	9/26/2000	31.0	0.14	1.1
	9/13/2001	37.0	1.1	1.0
	9/3/2002	49.0	1.1	7.1
	9/23/2003	45.0	0.76	1.1
	9/8/2004	41.0	0.36	2.0
	9/13/2005	47.0	1.2	1.6
	9/15/2006	27.0	0.64	2.0
	9/13/2007-DRY	-	-	-
	9/25/2008	44.0	1.1	1.3
	9/24/2009	38.6	1.72	0.887
	9/14/2010	45.1	0.384	0.897
	9/27/2011	36.5	44	1.3
	9/27/2012-DRY	-	-	-
	9/11/2013	33.7	0.43	0.054
	10/24/2014	40.1	0.71	2.9
	10/27/2015	19.5	0.089	1.7
	10/20/2016-DRY	Dry	Dry	Dry
	10/3/2017	56.2	0.65	3.4
	10/29/2018	32.4	0.051	1.4 B
	10/22/2019	35.2	0.25 B	1.7 B
	10/28/2020	45.4	0.58 B	3.9
	10/13/2021	46.8	0.37 B	2.0

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)	
MW-4S	10/3/1989	2460.0	785	178	
	4/18/1990	14.0	3,500	250	
	4/14/1994	8.0	0.16	0.15	
	9/29/1994	43.0	0.55	0.18	
	3/28/1995	25.0	0.37	0.09	
	10/6/1995	42.0	0.50	0.04	
	3/25/1996	24.0	0.54	0.45	
	9/19/1996	28.0	0.25	0.31	
	3/16/1997	36.0	0.42	0.15	
	9/17/1997	44.0	0.24	0.22	
	4/1/1998	29.0	0.2	0.24	
	9/24/1998	36.0	0.49	0.23	
	4/12/1999	31.0	0.13	0.11	
	9/29/1999	60.0	0.34	0.17	
	3/16/2000	36.0	0.066	0.11	
	9/26/2000	43.0	0.16	0.16	
	9/13/2001	46.0	0.87	0.13	
	9/3/2002	64.0	1.2	0.56	
	9/23/2003	67.0	1.4	0.49	
	9/8/2004	54.0	0.64	0.2	
	9/13/2005	51.0	0.52	0.19	
	9/15/2006	24.0	0.071	0.12	
	9/13/2007	46.0	0.59	0.2	
	9/25/2008	40.4	0.14	0.031 J	
	9/24/2009	40.9	0.34	0.128	
	9/14/2010	45.1	0.18	0.062	
	9/27/2011	44.0	0.14	0.049	
	9/27/2012	36.0	1.3	0.11	
	9/11/2013	33.7	0.024	0.022	
	10/24/2014	34.4	0.62	0.14	
	10/27/2015	27.5	0.12	0.032	
	10/20/2016-DRY	Dry	Dry	Dry	
	10/3/2017	36.5	0.17	0.063	
	10/29/2018	30.0	0.46	0.091 B	
	10/22/2019	24.7	0.82 B	0.14 B	
	10/28/2020 10/13/2021	33.6 28.1	0.51 B	0.11	
	10/13/2021	28.1	0.45 B	0.088	

(Units in mg/l)

Sample ID	Analyzed	Magnesium (mg/L)	Manganese (mg/L)	Zinc (mg/L)
MW-4D	10/3/1989	15.0	165	31
	4/18/1990	22.0	<50	20
	4/14/1994	25.0	0.026	<0.02
	3/28/1995	26.0	0.021	<0.02
	3/25/1996	28.0	0.24	<0.01
	3/16/1997	28.0	0.018	<0.02
	3/18/1998	29.0	0.024	<0.02
	3/17/1999	30.0	0.061	0.03
	9/29/1999	34.0	0.14	<0.02
	3/16/2000	30.0	0.031	<0.02
	9/26/2000	46.0	0.38	0.04
	9/13/2001	28.0	0.02	<0.02
	9/3/2002	29.0	<0.05	<0.01
	9/23/2003	29.0	<0.05	0.01
	9/8/2004	27.0	<0.05	0.01
	9/13/2005	27.0	<0.015	<0.01
	9/15/2006	27.0	<0.05	0.043
	9/13/2007	28.0	<0.05	< 0.02
	9/25/2008	27.0	0.013 J	<0.04
	9/24/2009	27.1	0.0153	.<0.025
	9/14/2010	27.6	<0.05	< 0.05
	9/27/2011	29.6	0.016	<0.01
	9/27/2012	25.4	<0.0025	<0.010
	9/11/2013	22.9	<0.0025	<0.010
	10/24/2014	23.3	0.0011 J	<0.010
	10/27/2015	24.2	0.17	0.067
	10/20/2016	23.9	0.016 B	0.0028 J
	10/3/2017	24.9	0.18	0.02
	10/29/2018	26.4	0.12	0.019 B
	10/22/2019	26.0	0.10 B	0.015 B
	10/28/2020	24.5	0.033 B	0.0056 J
	10/13/2021	27.0	0.039 B	0.098

Qualifiers:

- B Compound was found in blank and sample.
- J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

APPENDIX A

Analytical Results & Chain of Custody



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-190894-1 Client Project/Site: Brewer Rd site

For:

O & M Inc. 200 Day Hill Road Suite 200 Windsor, Connecticut 06095

Attn: Ryan Malone

Authorized for release by: 10/25/2021 3:24:23 PM Rebecca Jones, Project Management Assistant I Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian, Fischer@Eurofinset.com

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

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

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

Client: O & M Inc. Project/Site: Brewer Rd site Laboratory Job ID: 480-190894-1

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11

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Definitions/Glossary

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Qualifiers

G	C/I	VI.S	V	OA

 Qualifier
 Qualifier Description

 J
 Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier Qualifier Description

B Compound was found in the blank and sample.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

B

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М

Case Narrative

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Job ID: 480-190894-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-190894-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2021 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 3.2° C.

GC/MS VOA

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

Metals

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

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Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client: O & M Inc.

Client Sample ID: MW-1S Lab Sample ID: 480-190894-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	15.8		0.20	0.043	mg/L		_	200.7 Rev 4.4	Total/NA
Manganese	0.51	В	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.021		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-2S Lab Sample ID: 480-190894-2

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	21	10	3.2	ug/L	1	_	624.1	Total/NA
Trichloroethene	0.98 J	5.0	0.60	ug/L	1		624.1	Total/NA
Magnesium	46.9	0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.54 B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.036	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-2D Lab Sample ID: 480-190894-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	19.5		0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.011	В	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.013		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-3 Lab Sample ID: 480-190894-4

Analyte	Result Qual	ifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	29	10	3.2	ug/L	1	_	624.1	Total/NA
Trichloroethene	1.9 J	5.0	0.60	ug/L	1		624.1	Total/NA
Magnesium	46.8	0.20	0.043	mg/L	1		200.7 Rev 4.4	Total/NA
Manganese	0.37 B	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	2.0	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-4S Lab Sample ID: 480-190894-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	28.1		0.20	0.043	mg/L	1	_	200.7 Rev 4.4	Total/NA
Manganese	0.45	В	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.088		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-4D Lab Sample ID: 480-190894-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	27.0		0.20	0.043	mg/L	1	_	200.7 Rev 4.4	Total/NA
Manganese	0.039	В	0.0030	0.00040	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.098		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: TRIP BLANK Lab Sample ID: 480-190894-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-1S

Lab Sample ID: 480-190894-1

Analyzed

10/16/21 02:49

10/16/21 02:49

10/16/21 02:49

Prepared

10/15/21 09:52

10/15/21 09:52

10/15/21 09:52

Matrix: Water

Date Collected: 10/13/21 10:30 Date Received: 10/14/21 08:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte

Zinc

Magnesium

Manganese

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/15/21 19:35	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 19:35	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 19:35	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 19:35	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 19:35	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130			-		10/15/21 19:35	1
4-Bromofluorobenzene (Surr)	100		76 - 123					10/15/21 19:35	1
Toluene-d8 (Surr)	104		77 - 120					10/15/21 19:35	1

RL

0.20

0.0030

0.010

MDL Unit

0.043 mg/L

0.00040 mg/L

0.0015 mg/L

Result Qualifier

15.8

0.021

0.51 B

12

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Client Sample Results

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-2S

Lab Sample ID: 480-190894-2

Matrix: Water

Date Collected: 10/13/21 11:15 Date Received: 10/14/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	21		10	3.2	ug/L			10/15/21 19:59	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 19:59	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 19:59	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 19:59	1
Trichloroethene	0.98	J	5.0	0.60	ug/L			10/15/21 19:59	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130			-		10/15/21 19:59	1
4-Bromofluorobenzene (Surr)	99		76 - 123					10/15/21 19:59	1
Toluene-d8 (Surr)	104		77 - 120					10/15/21 19:59	1

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	46.9		0.20	0.043	mg/L		10/15/21 09:52	10/16/21 02:53	1
Manganese	0.54	В	0.0030	0.00040	mg/L		10/15/21 09:52	10/16/21 02:53	1
Zinc	0.036		0.010	0.0015	mg/L		10/15/21 09:52	10/16/21 02:53	1

Client Sample Results

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-2D

Lab Sample ID: 480-190894-3

Matrix: Water

Date Collected: 10/13/21 11:30 Date Received: 10/14/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/15/21 20:22	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 20:22	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 20:22	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 20:22	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 20:22	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130			-		10/15/21 20:22	1
4-Bromofluorobenzene (Surr)	99		76 - 123					10/15/21 20:22	1
Toluene-d8 (Surr)	105		77 - 120					10/15/21 20:22	1

Method: 200.7 Rev 4.4 - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	19.5		0.20	0.043	mg/L		10/15/21 09:52	10/16/21 02:56	1
Manganese	0.011	В	0.0030	0.00040	mg/L		10/15/21 09:52	10/16/21 02:56	1
Zinc	0.013		0.010	0.0015	mg/L		10/15/21 09:52	10/16/21 02:56	1

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Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-3

Lab Sample ID: 480-190894-4

10/16/21 03:00

10/16/21 03:00

10/15/21 09:52

10/15/21 09:52

Matrix: Water

Date Collected: 10/13/21 11:50 Date Received: 10/14/21 08:00

Manganese

Zinc

Method: 624.1 - Volatile Organic	Compounds (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	29		10	3.2	ug/L			10/15/21 20:46	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 20:46	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 20:46	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 20:46	1
Trichloroethene	1.9	J	5.0	0.60	ug/L			10/15/21 20:46	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130					10/15/21 20:46	1
4-Bromofluorobenzene (Surr)	99		76 - 123					10/15/21 20:46	1
Toluene-d8 (Surr)	105		77 - 120					10/15/21 20:46	1
Method: 200.7 Rev 4.4 - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	_								

0.00040 mg/L

0.0015 mg/L

0.0030

0.010

0.37 B

2.0

10/25/2021

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-4S

Lab Sample ID: 480-190894-5

Matrix: Water

Date Collected: 10/13/21 12:05 Date Received: 10/14/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/15/21 21:09	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 21:09	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 21:09	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 21:09	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 21:09	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130			-		10/15/21 21:09	1
4-Bromofluorobenzene (Surr)	99		76 - 123					10/15/21 21:09	1
Toluene-d8 (Surr)	105		77 - 120					10/15/21 21:09	1

Met	nod: 200.7 Rev 4.4 - Metals (IC	P)							
Analy	rte .	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magr	nesium	28.1	0.20	0.043	mg/L		10/15/21 09:52	10/16/21 03:04	1
Mang	ganese	0.45 B	0.0030	0.00040	mg/L		10/15/21 09:52	10/16/21 03:04	1
Zinc		0.088	0.010	0.0015	mg/L		10/15/21 09:52	10/16/21 03:04	1

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-4D Lab Sample ID: 480-190894-6 Date Collected: 10/13/21 12:00

Matrix: Water

Date Received: 10/14/21 08:00

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	ND ND		10	3.2	ug/L			10/15/21 21:33	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 21:33	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 21:33	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 21:33	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 21:33	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 21:33	1
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130			-		10/15/21 21:33	1
4-Bromofluorobenzene (Surr)	100		76 - 123					10/15/21 21:33	1
Toluene-d8 (Surr)	106		77 - 120					10/15/21 21:33	1

Method: 200.7 Rev 4.4 - Meta	ils (ICP)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	27.0	0.20	0.043	mg/L		10/15/21 09:52	10/16/21 03:08	1
Manganese	0.039 B	0.0030	0.00040	mg/L		10/15/21 09:52	10/16/21 03:08	1
Zinc	0.098	0.010	0.0015	mg/L		10/15/21 09:52	10/16/21 03:08	1

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-190894-7

Matrix: Water

Date Collected: 10/13/21 00:00 Date Received: 10/14/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/15/21 21:56	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 21:56	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 21:56	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 21:56	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 21:56	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130			-		10/15/21 21:56	1
4-Bromofluorobenzene (Surr)	99		76 - 123					10/15/21 21:56	1
Toluene-d8 (Surr)	107		77 - 120					10/15/21 21:56	1

Surrogate Summary

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

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

Matrix: Water Prep Type: Total/NA

				Percent Surrog	ate Recovery (Acce
		DCA	BFB	TOL	
Lab Sample ID	Client Sample ID	(68-130)	(76-123)	(77-120)	
480-190894-1	MW-1S	97	100	104	
480-190894-2	MW-2S	97	99	104	
480-190894-3	MW-2D	99	99	105	
480-190894-4	MW-3	103	99	105	
480-190894-5	MW-4S	101	99	105	
480-190894-6	MW-4D	99	100	106	
480-190894-7	TRIP BLANK	98	99	107	
LCS 480-600652/5	Lab Control Sample	97	104	106	
MB 480-600652/7	Method Blank	99	100	106	

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

4

6

9

10

13

1

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

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

Lab Sample ID: MB 480-600652/7

Matrix: Water

Analysis Batch: 600652

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	MD		10	3.2	ug/L			10/15/21 17:16	1
Chloroform	ND		5.0	0.54	ug/L			10/15/21 17:16	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/15/21 17:16	1
Toluene	ND		5.0	0.45	ug/L			10/15/21 17:16	1
Trichloroethene	ND		5.0	0.60	ug/L			10/15/21 17:16	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/15/21 17:16	1

MB MB Qualifier Surrogate %Recovery Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 68 - 130 10/15/21 17:16 99 100 76 - 123 10/15/21 17:16 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) 106 77 - 120 10/15/21 17:16

Lab Sample ID: LCS 480-600652/5

Matrix: Water

Analysis Batch: 600652

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloroform	20.0	21.5		ug/L		107	51 - 138	
Tetrachloroethene	20.0	20.5		ug/L		103	64 - 148	
Toluene	20.0	22.2		ug/L		111	47 - 150	
Trichloroethene	20.0	21.0		ug/L		105	71 - 157	
Vinyl chloride	20.0	19.3		ug/L		96	1 _ 251	

LCS LCS %Recovery Limits Surrogate 97 68 - 130 1,2-Dichloroethane-d4 (Surr) 76 - 123 4-Bromofluorobenzene (Surr) 104 Toluene-d8 (Surr) 106 77 - 120

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-600522/1-A

Matrix: Water

Analysis Batch: 600711

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Pren Batch: 600522	

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		0.20	0.043	mg/L		10/15/21 09:52	10/16/21 01:51	1
Manganese	0.000660	J	0.0030	0.00040	mg/L		10/15/21 09:52	10/16/21 01:51	1
Zinc	ND		0.010	0.0015	mg/L		10/15/21 09:52	10/16/21 01:51	1

Lab Sample ID: LCS 480-600522/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 600711

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits 10.0 10.46 105 85 - 115 mg/L

Magnesium Manganese 0.200 0.206 mg/L 103 85 - 115 Zinc 0.200 0.194 mg/L 85 - 115

MD MD

Eurofins TestAmerica, Buffalo

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Prep Batch: 600522

QC Association Summary

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

GC/MS VOA

Analysis Batch: 600652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190894-1	MW-1S	Total/NA	Water	624.1	
480-190894-2	MW-2S	Total/NA	Water	624.1	
480-190894-3	MW-2D	Total/NA	Water	624.1	
480-190894-4	MW-3	Total/NA	Water	624.1	
480-190894-5	MW-4S	Total/NA	Water	624.1	
480-190894-6	MW-4D	Total/NA	Water	624.1	
480-190894-7	TRIP BLANK	Total/NA	Water	624.1	
MB 480-600652/7	Method Blank	Total/NA	Water	624.1	
LCS 480-600652/5	Lab Control Sample	Total/NA	Water	624.1	

Metals

Prep Batch: 600522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
480-190894-1	MW-1S	Total/NA	Water	200.7	
480-190894-2	MW-2S	Total/NA	Water	200.7	
480-190894-3	MW-2D	Total/NA	Water	200.7	
480-190894-4	MW-3	Total/NA	Water	200.7	
480-190894-5	MW-4S	Total/NA	Water	200.7	
480-190894-6	MW-4D	Total/NA	Water	200.7	
MB 480-600522/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-600522/2-A	Lab Control Sample	Total/NA	Water	200.7	

Analysis Batch: 600711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190894-1	MW-1S	Total/NA	Water	200.7 Rev 4.4	600522
480-190894-2	MW-2S	Total/NA	Water	200.7 Rev 4.4	600522
480-190894-3	MW-2D	Total/NA	Water	200.7 Rev 4.4	600522
480-190894-4	MW-3	Total/NA	Water	200.7 Rev 4.4	600522
480-190894-5	MW-4S	Total/NA	Water	200.7 Rev 4.4	600522
480-190894-6	MW-4D	Total/NA	Water	200.7 Rev 4.4	600522
MB 480-600522/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	600522
LCS 480-600522/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	600522

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Job ID: 480-190894-1

Client: O & M Inc.

Project/Site: Brewer Rd site

Lab Sample ID: 480-190894-1

Matrix: Water

Client Sample ID: MW-1S Date Collected: 10/13/21 10:30 Date Received: 10/14/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 19:35	ATG	TAL BUF
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 02:49	LMH	TAL BUF

Client Sample ID: MW-2S

Date Collected: 10/13/21 11:15 Date Received: 10/14/21 08:00 Lab Sample ID: 480-190894-2

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 19:59	ATG	TAL BUF
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 02:53	LMH	TAL BUF

Client Sample ID: MW-2D

Date Collected: 10/13/21 11:30

Date Received: 10/14/21 08:00

Lab Sample ID: 480-190894-3

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1			600652	10/15/21 20:22	ATG	TAL BUF
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 02:56	LMH	TAL BUF

Client Sample ID: MW-3

Date Collected: 10/13/21 11:50 Date Received: 10/14/21 08:00 Lab Sample ID: 480-190894-4

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 20:46	ATG	TAL BUF
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 03:00	LMH	TAL BUF

Client Sample ID: MW-4S

Date Collected: 10/13/21 12:05

Date Received: 10/14/21 08:00

Lab Sample ID: 480-190894-5

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 21:09	ATG	TAL BUF
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 03:04	LMH	TAL BUF

Client Sample ID: MW-4D

Date Collected: 10/13/21 12:00

Date Received: 10/14/21 08:00

Lab Sample ID: 480-190894-6

Matrix: Water

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 21:33	ATG	TAL BUF

Eurofins TestAmerica, Buffalo

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Lab Chronicle

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Client Sample ID: MW-4D Lab Sample ID: 480-190894-6

Date Collected: 10/13/21 12:00 Matrix: Water

Date Received: 10/14/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			600522	10/15/21 09:52	ADM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	600711	10/16/21 03:08	LMH	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-190894-7

Matrix: Water

Date Collected: 10/13/21 00:00 Date Received: 10/14/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	600652	10/15/21 21:56	ATG	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

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
Connecticut		State	PH-0568	09-30-22
The following analytes	are included in this report	but the laboratory is not certifi	ad by the governing authority. This list ma	av include analytes for
0 ,		but the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
The following analytes the agency does not o		but the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
0 ,		but the laboratory is not certification. Matrix	ed by the governing authority. This list ma Analyte	ay include analytes for

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Method Summary

Client: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

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
200.7	Preparation, Total 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

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: O & M Inc. Job ID: 480-190894-1

Project/Site: Brewer Rd site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190894-1	MW-1S	Water	10/13/21 10:30	10/14/21 08:00
480-190894-2	MW-2S	Water	10/13/21 11:15	10/14/21 08:00
480-190894-3	MW-2D	Water	10/13/21 11:30	10/14/21 08:00
480-190894-4	MW-3	Water	10/13/21 11:50	10/14/21 08:00
480-190894-5	MW-4S	Water	10/13/21 12:05	10/14/21 08:00
480-190894-6	MW-4D	Water	10/13/21 12:00	10/14/21 08:00
480-190894-7	TRIP BLANK	Water	10/13/21 00:00	10/14/21 08:00

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Eurofins TestAmerica, Buffalo

Job Number: 480-190894-1

Client: O & M Inc.

Login Number: 190894 List Source: Eurofins TestAmerica, Buffalo

List Number: 1 Creator: Stopa, Erik S

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

Eurofins TestAmerica, Buffalo

APPENDIX B

Groundwater Level Measurements

Date: 10/28/2020

BREWER ROAD LANDFILL SUPERFUND SITE

Page __1__ of __1__

WELL PURGING-FIELD WATER QUALITY MEASUREMENT FORM

BREWER ROAD LANDFILL				Equipment Used: Lamonte 2020we Turbidity Meter, 100' Water Level Meter, 6 PFAS						
Sampling Orga		0&M, Inc.		Start Time:	10:00:00	AM	free Bailers, Lab Provided Sample Containers, Various PPE			
Field Personne		Ryan Malone		Date: 10-13-	2021		Calibration Log: 0, 1, 10 NTU Pre and post sampling			
Weather:	Cloud	y 5 0°						Serial No. 10		Decon Method: Alconox Solution
							Purging De	vice: Dedicat	ed PFAS free bailers	
			Constructed		Depth to			Quantity	Water	
Monitoring	Clock Time	Measuring	Well Depth	Depth to	Bottom	Physical	Turbidity	Purged	Characteristics	
Well Number	(24HR)	Point	(ft)	Water (ft)	(ft)	Cond.	(NTU)	(gallons)	(color, odor, etc.)	Comments
		Top of Inner							Clear, minor odors	
MW-1 SHALLOW	10:30	Casing	12.33	6.21	11.6	Good	13.4	0.88	0.00.,	
NOTES:					1	1	_		_	
		Top of Inner							Black suspended	
MW-2 SHALLOW	11:15	Casing	10.66	4.62	10.55	Good	12.9	1.00	solids present	
NOTES:										
		Top of Inner							Clear, minor odors	
MW-2 DEEP	11:30	Casing	31.97	5.58	32.08	Good	3.45	4.30	Clear, minor odors	
NOTES:										-
		Top of Inner							01	
MW-3	11:50	Casing	9.9	4.15	9.1	Good	46.3	0.8	Cloudy, minor odors	
NOTES:					_				I.	
		Top of Inner								
MW-4 DEEP	12:20	Casing	35.42	4.19	32.15	Good	51.2	4.55	Cloudy, minor odors	
NOTES:		Jan y								
1.0.20.		Top of Inner								
MW-4 SHALLOW	12:05	Casing	10.2	3.88	10.25	Good	31.5	1.00	Cloudy, minor odors	
NOTES:	12.00	C acmig		0.00	10.20	0000	01.0	1.00	Toloudy,or odolo	
ADDITIONAL N	OTES:									
ADDITIONALIV	OTEO.									

APPENDIX C

Site Inspection Reports

Date:	1/12/2021								
Weather Conditions:				35° Cloudy	•				
Site Conditions:				Good					
Fence Line:				Good					
Grass:				N/A					
Snow:			C	Coating to	1"				
Alarms:		None							
Leak Detector Test:		OK							
Dialer - Check Status:	Dialer - Check Status: OK								
Heating Setting and O)peration:			On. Se	t at 7	'0°			
Monitoring Wells:	x 1S x 2S x	x 2D	x 3	x 4S	х]4D			
	Le	achate P	umping S	Station					
Hour Run Meters									
#1 Present Reading:	1199.6		#2 Present Reading:				507.5		
Previous Reading:	1195.0		Previou	s Reading:		-	505.8		
Hours Run:	4.6		Hours F	Run:			1.7		
	-		10.001						
Tank Level 10	07" Gallons	s:	18,931						
Current Leachate Dispo	osal Amount: 1	17,500							
Last Disposal of Leachate: 10/28/2020 3,800 Date Gallons									
	Date			Juli	J.10				
<i></i>	- //								
O&M, Inc.	Man								

Date: 2	2/11/2021									
Weather Conditions:				20° Cloudy						
Site Conditions:				Good						
Fence Line:				Good						
Grass:		N/A								
Snow:		Plowed today. 10" ground cover								
Alarms:	High tank level(1) High pumping vault level(3)									
Leak Detector Test:				OK						
Dialer - Check Status:	OK									
Heating Setting and O										
Monitoring Wells:	x 1S x 2S x	C 2D	x 3	x 4S x	_dD					
	Lea	achate F	Pumping	Station						
Hour Run Meters										
#1 Present Reading:	1204.2		#2 Pres	sent Reading:	511	.7				
Previous Reading:	1199.6		Previou	ıs Reading:	507	' .5				
Hours Run:	4.6		Hours I	Run:	4.	2				
			04.000							
Tank Level Fu	II Gallons	·	21,000							
Current Leachate Dispo	sal Amount: 1	7,500								
Last Disposal of Leachate: 1/12/2021 17,500										
	Date			Gallons						
	1									
O&M, Inc.	Man									

Date:	3/11/2021	_													
Weather Conditions:			65	° Partly Cloudy		_									
Site Conditions:				Good											
Fence Line:				Good											
Grass:									N/A						
Snow:															
Alarms:	Alarms: High tank level(1) and High pumping vault level(3)														
Leak Detector Test:	Leak Detector Test: OK														
Dialer - Check Status:				OK											
Heating Setting and O	peration:			On. Set at	70°	_									
Monitoring Wells: x 1S x 2S x 2D x 3 x 4S x 4D															
	L	_eachate F	Pumping	Station											
Hour Run Meters															
#1 Present Reading:	1210.6		#2 Pres	sent Reading:	513.4										
Previous Reading:	1204.2		Previou	ıs Reading:	511.7										
Hours Run:	6.4		Hours I	Run:	1.7										
Tank Level Fu	ıll Galloı	ns:	21,000												
Current Leachate Dispo		15,500	•												
Last Disposal of Leacha					17,500										
East Disposal of Ecoonic	Date		_	Gallons	17,000										
O&M, Inc.	Man														

Date:	1/29/2021								
Weather Conditions:		55° Cloudy, Rain							
Site Conditions:		Good							
Fence Line:		Good							
Grass:		6"							
Snow:		N/A							
Alarms:	High tank level(1) High pumping vault level(3)								
Leak Detector Test:		ОК							
Dialer - Check Status:		ОК							
Heating Setting and O		On. Set at 7	0°						
Monitoring Wells:									
	Leacl	hate Pumping Station							
Hour Run Meters									
#1 Present Reading:	1220.5	#2 Present Reading:	516.3						
Previous Reading:	1210.6	Previous Reading:	513.4						
Hours Run:	9.9	Hours Run:	2.9						
T		04.000							
Tank Level Fu	II Gallons:	21,000							
Current Leachate Dispo	sal Amount:	14,000 removed on 4/22/21							
Last Disposal of Leachate: 3/11/2021 15,500									
	Date	Gallons							
	P								
O&M, Inc.	Min								

Date: 5	5/13/2021	_						
Weather Conditions:				60° Sunny				
Site Conditions:				Good				
Fence Line:	Fence Line: Good							
Grass: 9"								
Snow:	Snow: N/A							
Alarms:	High tank level(1) High pumping vault level(3)							
Leak Detector Test:				OK				
Dialer - Check Status:				OK				
Heating Setting and O	peration:			Off				
Monitoring Wells:	x 1S x 2S	x 2D	х 3	x 4S x	_4D			
	I	Leachate F	oumping:	Station				
Hour Run Meters								
#1 Present Reading:	1222.4		#2 Pres	sent Reading:		518.3		
Previous Reading:	1220.5		Previou	ıs Reading:		516.3		
Hours Run:	1.9		Hours F	Run:		2.0		
Tank Level Fu	ll Gallo	ons:	21,000					
Current Leachate Dispo	sal Amount:	21,000						
Last Disposal of Leacha	nte: 4/22/20 Date)21	_	Gallons	14,000			
O&M, Inc.	Man							

Date:	6/16/2021								
Weather Conditions:				60° Sunny					
Site Conditions:				Good					
Fence Line:	Good								
Grass:	rass: Needs Mowing. Scheduled with A-Verdi								
Snow:	N/A								
Alarms:	High tank level(1) High pumping vault level(3)								
Leak Detector Test:	Detector Test: OK								
Dialer - Check Status:				ОК					
Heating Setting and O	peration:			Off					
Monitoring Wells:	x 1S x 2S [x 2D	x 3	x 4S x	_4D				
Leachate Pumping Station									
Hour Run Meters									
#1 Present Reading:	1230.9		#2 Pres	sent Reading:	52	20.0	_		
Previous Reading:	1222.4		Previou	ıs Reading:	5	18.3	_		
Hours Run:	8.5		Hours F	Run:		1.7	_		
Tank Level 99.7	75" Gallon	s:	17,951						
Current Leachate Dispo		17,500	,						
Last Disposal of Leacha					21,000				
Zuot Biopodai di Zuudiid	Date		_	Gallons	21,000				
O&M, Inc.	Mar								

Date:	7/22/2021	_							
Weather Conditions:				70° Cloudy		_			
Site Conditions:				Good					
Fence Line:				Good					
Grass: Needs Mowing. Scheduled with A-Verdi									
Snow:	Snow: N/A								
Alarms:	High tank level(1) High pumping vault level(3)								
Leak Detector Test:	Leak Detector Test: OK								
Dialer - Check Status:				ОК					
Heating Setting and O	peration:			Off					
Monitoring Wells:	x 1S x 2S	x 2D	x 3	x 4S x] 4D				
	L	.eachate F	Pumping	Station					
Hour Run Meters									
#1 Present Reading:	1239.9		#2 Pres	sent Reading:	52	22.1			
Previous Reading:	1230.9		Previou	ıs Reading:	52	20.0			
Hours Run:	9.0		Hours F	Run:	2	2.1			
Tank Level Fu	ıll Gallor	ns:	21,000						
Current Leachate Dispo		17,500	,						
Last Disposal of Leacha					17,500				
Last Disposal of Leache	Date	<u> </u>	_	Gallons	17,500				
O&M, Inc.	Man								

Date:	8/17/2021	_							
Weather Conditions:			80° Pa	arty Sunny, Hun	nid				
Site Conditions:				Good					
Fence Line:	Good								
Grass:	Needs Mowing. Scheduled to be mowed on 8/18/21								
Snow:		N/A							
Alarms:				None					
Leak Detector Test:				ОК					
Dialer - Check Status:	i			ОК					
Heating Setting and C				Off					
Monitoring Wells:	x 1S x 2S	x 2D	х 3	x 4S x	_4D				
	ļ	Leachate F	oumping:	Station					
Hour Run Meters									
#1 Present Reading:	1247.2		#2 Pres	sent Reading:	52	24.4			
Previous Reading:	1239.9		Previou	ıs Reading:	52	22.1			
Hours Run:	7.3		Hours F	Run:	2	2.3			
Tank Level 107	.25" Gallo	no:	19.045						
			18,945						
Current Leachate Dispo		17,500							
Last Disposal of Leach	ate: 7/22/20 Date)21	_	Gallons	17,500				
	- Min								
O&M, Inc.	- Mila								

Date : 9	9/15/2021									
Weather Conditions:		75° Cloudy								
Site Conditions:		Good								
Fence Line:		Good								
Grass:		Mowed on 8/18/21								
Snow:	N/A									
Alarms:	Hi	High tank level(1) High pumping vault level(3)								
Leak Detector Test:		OK								
Dialer - Check Status:		OK								
Heating Setting and O	peration:	Off								
Monitoring Wells:	Monitoring Wells: X 1S X 2S X 2D X 3 X 4S X 4D									
Leachate Pumping Station										
Hour Run Meters										
#1 Present Reading:	1255.4	#2 Present Reading:	526.1							
Previous Reading:	1247.2	Previous Reading:	524.4							
Hours Run:	8.2	Hours Run:	1.7							
Tank Level Full on 9	n/13/21 Gallons:	21,000								
Current Leachate Dispos		0,500 on 9/15/21 and 10,500 or	n 0/13/21							
Current Leachate Dispos	sai Amounti	0,500 on 9/15/21 and 10,500 of	11 9/ 13/21							
Last Disposal of Leacha	te: 8/17/2021 Date	 Gallons	17,500							
<i>~</i>										
O&M, Inc.	Min									

Date: 1	0/13/2021				
Weather Conditions:	72° Cloudy				
Site Conditions:	Good				
Fence Line:			Good		
Grass:		Мо	wed on 8/18/21		
Snow:			N/A		
Alarms:	Hi	igh tank level(1) High pumping	vault level(3)	
Leak Detector Test:		_	OK		
Dialer - Check Status:		_	OK		
Heating Setting and O	peration:		On. Set at 7	'0°	
Monitoring Wells:	x 1S x 2S x	2D x 3	x 4S x]4D	
	Leach	hate Pumping	Station		
Hour Run Meters					
#1 Present Reading:	1262.8	#2 Pres	sent Reading:	526.7	
Previous Reading:	1247.2	Previou	ıs Reading:	524.4	_
Hours Run:	15.6	Hours F	Run:	2.3	_
Tank Level Ful	ll Gallons:	21,000			
Current Leachate Dispos	sal Amount: 21,	,000			
Last Disposal of Leacha	te: 9/13 and 9/15 Date	; ;	Gallons	21,000	
O&M, Inc.	Man				

Date: 1	1/18/2021			
Weather Conditions:	40° Cloudy			
Site Conditions:		Good		
Fence Line:		Good		
Grass:		N/A		
Snow:		N/A		
Alarms:	High	tank level(1) High pumping	vault level(3)	
Leak Detector Test:		OK		
Dialer - Check Status:		OK		
Heating Setting and O		On. Set at 7	0°	
Monitoring Wells:	x 1S x 2S x 2D) x 3 x 4S x]4D	
	Leachat	e Pumping Station		
Hour Run Meters				
#1 Present Reading:	1272.8	#2 Present Reading:	532.1	
Previous Reading:	1262.8	Previous Reading:	526.7	
Hours Run:	10	Hours Run:	5.4	
Tank Level Ful	ll Gallons:	21,000		
Current Leachate Dispos				
Last Disposal of Leacha		Gallons	21,000	
O&M, Inc. ///	Min			

Date:	12/8/2021					
Weather Conditions:				30° Cloudy		
Site Conditions:				Good		
Fence Line:				Good		
Grass:				N/A		
Snow:			(Coating to 1"		
Alarms:		High ta	nk level(1) High pumping	vault level(3)	
Leak Detector Test:				OK		
Dialer - Check Status	:			OK		
Heating Setting and C					′0°	
Monitoring Wells:	x 1S x 2S	x 2D	x 3	x 4S x]4D	
		Leachate l	Pumping	Station		
Hour Run Meters						
#1 Present Reading:	1281.9		#2 Pres	sent Reading:	534.5	
Previous Reading:	1272.8		Previou	ıs Reading:	532.1	
Hours Run:	9.1		Hours F	Run:	2.4	
Tank Level F	ull Gall	ons:	21,000			
Current Leachate Disp		21,000	•			
Last Disposal of Leach			_	Gallons	21,000	
O&M, Inc.	Min					

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist Date Performed Inspector Name alone Inspector Signature: liem Tack Result Low Permeability Cover Visually inspect surface conditions Ground Water Cutoff Wall Visually inspect surface conditions Obtain monthly precipitation data from the National Climatic Data Center. Update graph of collected volume vs. monthly precipitation. 2020 Leachate Collection System Leachate Collection Trench Visually inspect integrity of cleanouts and valves Leachate Lift Station Visually inspect pumps, pipes and appurtenances and verity proper operation Piping System Visually inspect at exit of pumping station and inlet of UST UST System Inspect and record tank level. Calculate volume. 107" gallons Control System Inspect control panel, autodialer Site Security Visually inspect integrity of fence around perimeter Site Drainage Visually inspect surface conditions Access Road Visually inspect surface conditions Ground Water Monitoring Visually inspect condition and

Note: Inspections to be performed monthly until September, 1994 and quarterly thereafter.

security of well casings

Wells

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	2/11/2021	
Inspector Name	Ryan Malone Inspe	ector Signature:
Item	Task	Result
Low Permeability Cover	Visually inspect surface conditions	10" Snow
Ground Water Cutoff Wall	Visually inspect surface conditions	10" Snow
	Obtain monthly precipitation data from the National Climatic Data Center.	
	Update graph of collected volume vs. monthly precipitation.	Updated through Dec 2020 Updated through Dec 2020
Leachate Collection System		
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	V
Leachate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full & 21,000 gallons
Control System	Inspect control panel, sutodialer	Julions Julions
Site Security	Visually inspect integrity of fence around perimeter	V .
Site Drainage	Visually inspect surface conditions	✓
Access Road	Visually inspect surface conditions	V
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

Note: Inspections to be performed monthly until September, 1994 and quarterly thereafter.

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W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	3/11/2021	
Inspector Name	(1)	ector Signature:
Item	Task	Result
Low Permeability Cover	Visually inspect surface conditions	
		(oating to 1" of show
Ground Water Cutoff Wall	Visually inspect surface conditions	
		Coating to 1" of Snow.
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through February
	Update graph of collected volume vs. monthly precipitation.	Updated through February
Leachate Collection System		
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	V
Leschate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full \$21,000 gallens
Control System	Inspect control panel, autodialer	V gains
Site Security	Visually inspect integrity of fence around perimeter	
Site Drainage	Visually inspect surface conditions	\checkmark
Access Road	Visually inspect surface conditions	V .
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed Inspector Name Inspector Signature: Item Tack Low Permeability Cover Visually inspect surface conditions Ground Water Cutoff Wall Visually inspect surface conditions Obtain monthly precipitation data from the National Climatic Data Center. Update graph of collected volume vs. monthly precipitation. Leachate Collection System Leachate Collection Trench Visually inspect integrity of cleanouts and valves Leachate Lift Station Visually inspect pumps, pipes and appurtenances and verity proper operation Piping System Visually inspect at exit of pumping station and inlet of UST **UST System** Inspect and record tank level. Calculate volume. Full Control System Inspect control panel, autodialer Site Security Visually inspect integrity of fence around perimeter Site Drainage Visually inspect surface conditions Access Road Visually inspect surface conditions Ground Water Monitoring Visually inspect condition and Wells security of well casings

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	5/13/2021	1
Inspector Name	Kyan Malore Inspe	ector Signature:
Item	Taek	Remit
Low Permeability Cover	Visually inspect surface conditions	
		V
Ground Water Cutoff Wall	Visually inspect surface conditions	
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through March
	Update graph of collected volume vs. monthly precipitation.	Updated through March Updated through March
Leachate Collection System		
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	V
Leachate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full & 21,000 gallons
Control System	Inspect control panel, autodialer	J. Gennes
Site Security	Visually inspect integrity of fence around perimeter	1
Site Drainage	Visually inspect surface conditions	
Access Road	Visually inspect surface conditions	V .
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

Table 1

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist Date Performed 2021 Inspector Name Inspector Signature: Item Task Result Low Permeability Cover Visually inspect surface conditions Ground Water Cutoff Wall Visually inspect surface conditions Obtain monthly precipitation data from the National Climatic Data Center. Update graph of collected volume vs. monthly precipitation. Leachate Collection System Leachate Collection Trench Visually inspect integrity of cicanouts and valves Leachate Lift Station Visually inspect pumps, pipes and appurtenances and verity proper operation Piping System Visually inspect at exit of pumping station and inlet of UST **UST System** Inspect and record tank level. Calculate volume. Control System Inspect control panel, autodialer Site Security Visually inspect integrity of fence around perimeter Site Drainage Visually inspect surface conditions Access Road Visually inspect surface conditions Ground Water Monitoring Visually inspect condition and Wells security of well casings

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	7/22/2021	
Inspector Name	Gan Malone Inspe	ector Signature:
Item	Tack	Result
Low Permeability Cover	Visually inspect surface conditions	
		V
Ground Water Cutoff Wall	Visually inspect surface conditions	
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through June
	Update graph of collected volume vs. monthly precipitation.	Updated through June Updated through June
Leachate Collection System		J
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	
Leachate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full No Hood gallons
Control System	Inspect control panel, autodialer	
Site Security	Visually inspect integrity of fence around perimeter	
Site Drainage	Visually inspect surface conditions	V
Access Road	Visually inspect surface conditions	V .
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist Date Performed Inspector Name Inspector Signature: Item Task Result Low Permeability Cover Visually inspect surface conditions Ground Water Cutoff Wall Visually inspect surface conditions Obtain monthly precipitation data from the National Climatic Data Center. Update graph of collected volume vs. monthly precipitation. Leachate Collection System Leachate Collection Trench Visually inspect integrity of cleanouts and valves Leachate Lift Station Visually inspect pumps, pipes and appurtenances and verity proper operation Piping System Visually inspect at exit of pumping station and inlet of UST **UST System** Inspect and record tank level. Calculate volume. Control System Inspect control panel, autodialer Site Security Visually inspect integrity of fence around perimeter Site Drainage Visually inspect surface conditions Access Road Visually inspect surface conditions **Ground Water Monitoring** Visually inspect condition and Wells security of well casings

Table 1

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist Date Performed Yan Inspector Name Malone Inspector Signature: Item Task Result Low Permeability Cover Visually inspect surface conditions Ground Water Cutoff Wall Visually inspect surface conditions Obtain monthly precipitation data from the National Climatic Data Center. Update graph of collected volume vs. monthly precipitation. Leachate Collection System Leachate Collection Trench Visually inspect integrity of cleanouts and valves Leachate Lift Station Visually inspect pumps, pipes and appurtenances and verity proper operation Piping System Visually inspect at exit of pumping station and inlet of UST **UST** System Inspect and record tank level. Calculate volume. ≈ 2/coo gallons Cuil Control System Inspect control panel, autodialer Site Security Visually inspect integrity of fence around perimeter Site Drainage Visually inspect surface conditions Access Road Visually inspect surface conditions **Ground Water Monitoring** Visually inspect condition and Wells security of well casings

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	10/13/2021	
Inspector Name	Kyan Malore Inspe	octor Signature:
Item	Task	Result
Low Permeability Cover	Visually inspect surface conditions	
Ground Water Cutoff Wall	Visually inspect surface conditions	
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through August
	Update graph of collected volume vs. monthly precipitation.	Updated through August Updated through August
Leachate Collection System		1
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	
Leachate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Impect and record tank level. Calculate volume.	Full & Dhood gallers
Control System	Inspect control panel, autodialer	
Site Security	Visually inspect integrity of fence around perimeter	
Site Drainage	Visually inspect surface conditions	
Access Road	Visually inspect surface conditions	V
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	11/18/2021	
Inspector Name	Kyan Makae Inspe	octor Signature:
litem	Tack	Result
Low Permeability Cover	Visually inspect surface conditions	
Ground Water Cutoff Wall	Visually inspect surface conditions	
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through October
	Update graph of collected volume vs. monthly precipitation.	Updated through October
Leachate Collection System		
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	
Leachate Lift Station	Visually inspect pumps, pipes and appurtenances and verity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full #21,000 gallers
Control System	Inspect control panel, autodialer	
Site Security	Visually inspect integrity of fence around perimeter	
Site Drainage	Visually inspect surface conditions	V
Access Road	Visually inspect surface conditions	✓ .
Ground Water Monitoring Wells	Visually inspect condition and security of well casings	

W.R. Grace & Co. - CONN. Brewer Road Landfill - Waterloo, New York

Inspection Checklist

Date Performed	12/8/2021	
Inspector Name	Ryan Makne Imp	ector Signature:
Iten	Teck	Rent
Low Permeability Cover	Visually inspect surface conditions	V
Ground Water Cutoff Wali	Visually inspect surface conditions	
	Obtain monthly precipitation data from the National Climatic Data Center.	Updated through October
	Update graph of collected volume vs. monthly precipitation.	Updated through October
Leachate Collection System		
Leachate Collection Trench	Visually inspect integrity of cleanouts and valves	
Leschate Lift Station	Visually inspect pumps, pipes and appurtenances and varity proper operation	
Piping System	Visually inspect at exit of pumping station and inlet of UST	
UST System	Inspect and record tank level. Calculate volume.	Full 57 / 000 gallons
Control System	Inspect control panel, autodialer	Culons
Site Security	Visually inspect integrity of fence around perimeter	
Site Drainage	Visually inspect surface conditions	
Acres Road	Visually inspect surface conditions	
Ground Water Monitoring Wells	Visually inspect condition and security of well easings	

Note: Inspections to be performed monthly until September, 1994 and quarterly thereafter.

Emil Cond Line