ARCADIS Design & Consultancy for natural and built assets

Mr. Michael Belveg
New York State Department of Environmental Conservation (NYSDEC)
Region 7 Office
Division of Environmental Remediation
615 Erie Boulevard West
Syracuse, NY 13204

July 27, 2020

Subject: **Stauffer Management Company, LLC - Maestri Site**
NYSDEC Site No. 7-34-025
900 State Fair Boulevard
Town of Geddes, NY

Dear Mr. Belveg:

Arcadis on behalf of Stauffer Management Company, LLC (SMC), is submitting the enclosed 2021 Semi-Annual Groundwater Monitoring Report-May 2021 for the Maestri Site.

If you have any questions or concerns, please do not hesitate to contact me at 315-671-9296 or Rebecca.Hensel@arcadis.com.

Sincerely,

Arcadis

Rebecca Hensel
Project Manager

cc: John-Paul Rossi/Stauffer Management Company, LLC
Victor Finocchiaro/Arcadis

Stauffer Management Company

2021 Semi-Annual Groundwater Monitoring Report – May 2021

Maestri Site, Geddes, NY
NYSDEC Site: 7-34-025

July 27, 2021

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Acronyms and Abbreviations

µg/l	microgram per liter
Arcadis	Arcadis U.S., Inc.
NYSDEC	New York State Department of Environmental Conservation
Offsite Locations	Monitoring locations downgradient from the Site and outside of the fenced area
Site	The completely fenced in area located at 904 State Fair Blvd, Onondaga County, Town of Geddes, New York
SMC	Stauffer Management Company
SMP	2011 Site Management Plan
SOW	Scope of Work
Technical Memo	2021 NYSDEC Response Letter
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

1 Introduction

This Semi-Annual Groundwater Monitoring Report has been prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Stauffer Management Company (SMC). SMC entered into an Order on Consent with the New York State Department of Environmental Conservation (NYSDEC) to investigate and remediate contaminated media for the Maestri Site, which is an approximately 4.4-acre area located at 904 State Fair Boulevard Onondaga County, Town of Geddes, New York (Figure 1). The portion of the Site that is still currently monitored is approximately 2.5 acres and completely fenced (Site). The Site area is bordered by an empty lot and State Fair Boulevard to the southwest, residents along Alhan Parkway to the Northeast, and wooded lots to the northwest and southeast. Additionally, there are offsite monitoring locations downgradient from the Site and outside of the fenced areas. The Site and offsite locations are shown in Figure 2.

The purpose of this report is to summarize the semi-annual groundwater monitoring event that was completed on May 19, 2021. This report is in accordance with the 2021 NYSDEC Response Letter (Technical Memo) and in compliance with the 2011 Site Management Plan (SMP) (Envirospec Engineering, PLLC 2010). The Technical Memo can be found in Appendix A. The Site has been remediated by SMC under Order on Consent Index # A7-0226-90-03 with the New York State Department of Environmental Conservation (NYSDEC).

2 Background and Site Description

The groundwater treatment system at the SMC Maestri Site began operation in 1996. On May 8, 2008, SMC submitted a request to the NYSDEC to shut down the treatment system.

SMC agreed to conduct weekly Site inspections and monthly sampling of eight perimeter monitoring wells for the first three months following shutdown, from June to August 2008. The elevations of Site monitoring wells were also monitored monthly during this time. After the three month period, sampling and reporting was conducted quarterly from November 2008 to June 2009.

In June 2009, a new offsite monitoring well (PZ-20) was installed downgradient of the Site in the Alhan Parkway residential area (153 Alhan Parkway) to verify that the Site groundwater contamination plume was not migrating towards this residential area. A second offsite monitoring well (PZ-21) was installed at 151 Alhan Parkway in June 2012.

Based on groundwater monitoring results in November 2009, SMC requested NYSDEC approval to change the groundwater sampling frequency from quarterly to semi-annual. On November 13, 2009, the NYSDEC granted the request. Subsequently, the SMP was approved in 2011 by the NYSDEC for monitoring activities at the Maestri Site. The 2011 NYSDEC approved SMP was prepared in accordance with the requirements in NYSDEC's DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and the guidelines provided by the NYSDEC. This SMP addresses the means of implementing the Institutional Controls and Engineering Controls that were required by the Declaration of Covenants and Restrictions for the Site.

In October 2020, SMC requested approval from the NYSDEC to reduce the semi-annual sampling requirements of RW-3, RW-5, and RW-8 due to a history of low to non-detections of xylenes. SMC also requested approval from the NYSDEC to remove PZ-4 from the semi-annual monitoring program due to inaccessibility and there being other downgradient wells.

In February 2021, SMC received approval from the NYSDEC in the Technical Memo, approving the requests to remove PZ-4 from the monitoring program and reducing the sampling frequency of RW-3, RW-5, and RW-8 from semiannual to annual.

3 Groundwater Monitoring

3.1 Groundwater Elevations

The first 2021 semi-annual groundwater monitoring event was conducted from May 17 thru May 19, 2021 for 24 monitoring locations. With the exception of PZ-5 and RW-6, the monitoring wells were gauged on May 17, 2021 prior to purging and sampling. Monitoring wells, PZ-5 and RW-6 were unable to be accessed on May 17, 2021 and were gauged on May 19, 2021. The groundwater elevations are presented in Table 1 and Figure 3.

3.2 Groundwater Sampling

During the first 2021 semi-annual groundwater monitoring event, nine monitoring wells were sampled in accordance with the Technical Memo and the Site SMP.

As per the May 20201 NYSDEC approval email (Appendix B), all monitoring well locations were purged using low-flow techniques. The use of low-flow techniques will be evaluated, and recommendations will be provided in the Annual Periodic Review Report.

Monitoring wells were purged with a two-inch submersible pump and polyethylene tubing. Purged water was containerized in a mobile polyethylene tank. The containerized water is temporarily stored within the fenced Site area and will be later transported to a regulated disposal facility for disposal. Field data, including pH, temperature, conductivity, turbidity, oxidation/reduction potential, dissolved oxygen, and total dissolved solids, were recorded during purging. A summary of the field data and the total volume of groundwater purged can be found in the monitoring well sampling logs that are presented in Appendix C/Table 2.

Field Quality Assurance/Quality Control samples were collected at a rate of one set for every 20 and consisted of a blind duplicate, and matrix spike/matrix spike duplicate. Additionally, for each day of sampling a trip blank and equipment blank were collected and analyzed. Samples were sent to Eurofins TestAmerica in Edison, NJ, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. The groundwater analytical samples were analyzed following typical chain of custody procedures for Xylene analysis using USEPA Method 624.1. A summary of total xylene results from this sampling event is presented in Table 3 and the laboratory reports in Appendix D.

4 Groundwater Analysis and Results

Arcadis conducted data validation of the laboratory reports to confirm the analytical data is of sufficient quality for usage. The data review reports containing the data validation details are included as Appendix E. The review was conducted as a Tier III evaluation and included review of 100% of the data packages for completeness. The data review found all data quality acceptable for use.

There were no detections of total xylene from any of the nine monitoring locations sampled during this event and are shown in Figure 4. Table 4 presents the total xylene concentrations from 2006 through 2021 for each individual sampled location. Total xylene concentrations historically indicated seasonal fluctuations across semi-annual monitoring events, specifically in RW-6, MW-2A, RW-7, and MW-9. Historically, total xylene levels for monitoring locations within the fenced Site area have ranged from non-detect to above the site-specific cleanup value. Although levels onsite are elevated offsite downgradient wells PZ-20 and PZ-21 continue to be non-detect, and there is no indication that the plume is migrating to this area. The historic data is also presented in Figure 5.

5 Site Inspections

During the first semi-annual monitoring event of 2021, a Site inspection was completed. The inspection indicated that there were no Site issues observed. A copy of the Site inspection report completed during the May 2021 monitoring event is included as Appendix F.

Since August 2008, Site inspections were conducted during each groundwater monitoring event. Items inspected during the Site inspections included Site security, recovery and monitoring well locations, erosion control, condition of neighboring properties and general observations (i.e. appearance of sink holes, odors, vegetation growth, etc.).

6 Conclusions and Next steps

The Site inspection conducted during the May 2021 event showed that the Engineering Controls continue to be effective since the groundwater treatment system shutdown.

The nine monitoring locations sampled during the May 2021 event had no detections of total xylene, and in comparison, with Site historic sampling data, there is no migration of total xylene to the offsite downgradient wells.

The NYSDEC approved SMC's proposal to reduce the sampling frequency requirement of RW-3, RW-5, and RW-8 from semi-annual to annual given the non-detect results observed for total xylenes for the past several monitoring rounds. Since monitoring locations RW-3, RW-5, and RW-8 were sampled in the first 2021 event, they will not be sampled in the next 2021 event.

The next semi-annual low-flow sampling and Site inspection will be completed during Fall 2021 with low-flow techniques. The use of low-flow techniques will be evaluated, and recommendations will be provided in the Annual Periodic Review Report.

The NYSDEC will be notified prior to the sampling event.

7 Reference

Envirospec Engineering, PLLC. 2010. *Site Management Plan,* Maestri Site, Onondaga County, New York, NYSDEC Site Number: 7-34-025. Prepared for Stauffer Management Company. August.

Tables

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
2021 SEMI-ANNUAL MONITORING REPORT - MAY 2021
MAESTRI SITE
GEDDES, NEW YORK

Designation	Top of Casing Elevation (ft msl)	May 17, 2021	
		Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-2A	406.40	13.73	392.67
MW-9	408.87	12.97	395.90
MW-10	413.82	6.42	407.40
MW-14	405.17	15.21	389.96
PZ-2	407.23	10.70	396.53
PZ-3	409.60	12.42	397.18
PZ-5	393.37	5.62	387.75
PZ-6	410.15	13.71	396.44
PZ-7	409.13	13.53	395.60
PZ-9	408.69	12.78	395.91
PZ-10	407.04	11.92	395.12
PZ-12	408.17	12.93	395.24
PZ-13	407.12	12.51	394.61
PZ-14	408.44	10.74	397.70
PZ-15	406.74	16.47	390.27
PZ-18	406.30	16.48	389.82
PZ-19	406.88	16.51	390.37
PZ-20	386.00	5.16	380.84
PZ-21	386.70	2.52	384.18
RW-3	407.01	17.08	389.93
RW-5	409.18	13.00	396.18
RW-6	393.64	5.79	387.85
RW-7	405.76	15.97	389.79
RW-8	406.81	13.03	393.78

Notes:

Groundwater Elevation is determined using the following formula: (Top of Casing Elevation - Depth to Water).

Monitoring well MW-2A was formerly known as RW-2 in 2006.

PZ-5 and RW-6 were not accessible until May 19, 2021 for gauging.

Top of Casing Elevation and Ground Water Elevation are in units of feet mean sea level (ft msl).

TABLE 2
SUMMARY OF FIELD WATER QUALITY DATA
2021 SEMI-ANNUAL MONITORING REPORT - MAY 2021
MAESTRI SITE
GEDDES, NEW YORK

Monitoring Well	Date Sampled	Diameter (in)	Total Well Depth (ft bgs)	Top of Casing to Grade (ft)	Depth to Water (ft)	Water Column Height (ft)	Purged Volume (gal)	Final pH	Final Temp (deg C)	Final Conductivity (mS/cm)	ORP (mV)	Turbidity (NTU)	DO (mg/L)
MW-9	5/18/2021	2	18.70	1	13.10	5.60	0.82	6.84	13.90	0.830	105.1	5.70	2.93
MW-2A	5/18/2021	8	22.93	2.7	13.80	9.13	3.17	7.03	9.30	1.041	-48.9	1.95	0.25
RW-3	5/17/2021	6	27.08	1	17.18	9.90	2.57	6.91	10.60	1.442	-56.6	1.62	0.66
RW-5	5/17/2021	6	25.93	1	13.00	12.93	1.71	6.72	10.30	0.836	70.4	14.51	0.02
RW-6	5/19/2021	6	19.16	0	5.79	13.37	1.98	7.56	10.70	1.167	-121.1	6.25	2.71
RW-7	5/18/2021	6	28.13	1	16.15	11.98	1.03	7.23	9.60	1.149	-175.8	1.42	1.20
RW-8	5/18/2021	6	25.55	1	13.13	12.42	1.07	7.04	9.20	0.805	47.1	16.48	1.86
PZ-20	5/19/2021	2	19.65	0	5.25	14.40	1.38	7.16	16.70	1.501	-106.4	12.56	2.10
PZ-21	5/19/2021	2	18.73	0	2.84	15.89	2.49	7.30	12.10	1.069	-115.0	2.71	2.56

Notes:

ft - Feet

in - Inches

mV - Millivolts

deg C - Degrees Celsius

bgs - Below Ground Surface

mg/L - Milligrams per Liter

NTU - Nephelometric Turbidity units

mS/cm - MilliSiemens per Centimeter

TABLE 3
SUMMARY OF TOTAL XYLENE CONCENTRATIONS IN GROUNDWATER
2021 SEMI-ANNUAL MONITORING REPORT - MAY 2021
MAESTRI SITE
GEDDES, NEW YORK

Sample Name: Date Collected: Lab Sample ID:	Site Specific Cleanup Goals (µg/L)	MW-2A 5/18/2021 460-234720-1	MW-9 5/18/2021 460-234720-4	PZ-20 5/19/2021 460-234967-4	PZ-21 5/19/2021 460-234967-2	RW-3 5/17/2021 460-234686-5
Volatile Organic Compounds						
Xylenes, Total	5	<2.0	<2.0 [<2.0]	<2.0	<2.0	<2.0

Sample Name: Date Collected: Lab Sample ID:	Site Specific Cleanup Goals (µg/L)	RW-5 5/17/2021 460-234686-1	RW-6 5/19/2021 460-234967-1	RW-7 5/18/2021 460-234720-7	RW-8 5/18/2021 460-234720-6
Volatile Organic Compounds					
Xylenes, Total	5	<2.0	<2.0	<2.0	<2.0

Notes:

All analytical results are in micrograms per liter (µg/L).

All samples were analyzed by Eurofins TestAmerica in Edison, NJ.

Site Specific Cleanup Goals are based on the Site Remedial Action Objectives from the 2011 SMP.

< - Constituent is not detected; the associated value is the reporting limit

[ ] - Indicates field duplicate sample result

TABLE 4
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2021 SEMI-ANNUAL MONITORING REPORT - MAY 2021
MAESTRI SITE
GEDDES, NEW YORK

Sample Date	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
2-May-06	2400	NS	NS	*****	******	<3.0	**	<3.0	58	<30	<3.0
6-Jun-06	NS	NS	NS	*****	******	<3.0	**	<3.0	9	102	<3.0
4-Jul-06	665	NS	NS	*****	******	<3.0	**	<3.0	34	130	NS
1-Aug-06	NS	NS	NS	*****	******	5	**	<3.0	63	90	<3.0
3-Oct-06	<3.0	NS	NS	*****	******	3.3	**	<3.0	3	55	NS
2-Jan-07	<3.0	NS	NS	*****	******	<3.0	**	<3.0	29	40	NS
3-Apr-07	6.4	NS	NS	*****	******	INC	**	<3.0	145	3.7	NS
3-Jul-07	410	NS	NS	*****	******	<3.0	**	<3.0	<3.0	<3.0	NS
2-Oct-07	1025	NS	NS	*****	******	<3.0	**	<3.0	30	6	NS
7-Jan-08	3.0	11	NS	*****	******	<3.0	**	14	52	<3.0	NS
1-Apr-08	987	NS	NS	*****	******	22	**	<3.0	27	15	NS
Treatment System Shutdown on May 27th, 2008											
Jun-08	68 [54]	964	< 3.0	*****	******	6.1	**	<3.0	84	119	<3.0
Jul-08	1,700	1,800	< 3.0	*****	******	4.4	**	<3.0 [< 3.0]	71	124	<3.0
Aug-08	1,770 [1,200]	1,795	< 3.0	*****	******	4.3	**	<3.0	148	104	<3.0
Nov-08	16	73	< 3.0	*****	******	<3.0	**	<3.0	158	73	<3.0
Feb-09	9.1	< 3.0	< 3.0	*****	******	<3.0	**	<3.0	590	<3.0 [< 3.0]	< 3.0
Jun-09	4,635	7,830	< 3.0	<3.0	******	<3.0	**	<3.0	641	23	< 3.0
Dec-09	5,780	5,145	<3.0	<3.0	******	<3.0	**	<3.0	417	169	<3.0
May-10	100 [122]	190	<3.0	<3.0	******	<3.0	**	<3.0	862	15	<3.0
Oct-10	32	<3.0	<3.0	<3.0	******	<3.0	**	<3.0	168 [157]	71	<3.0
Apr-11	685	3,598 [3,220]	10	<3.0	******	<3.0	**	<3.0	208	66	<3.0
Jun-11	5,352	9,337	<3.0	<3.0	******	NS	**	NS	906	7.7 [7.8]	NS
Nov-11	1,560 [1,980]	3.8	<3.0	<3.0	******	<3.0	**	<3.0	749	<3.0	<3.0
Jun-12	230 [179]	5,370	< 3.0	< 3.0	< 3.0	< 3.0	**	< 3.0	622	41	< 3.0
Dec-12	2,903	NS (DRY)	< 3.0	< 3.0 [<3.0]	< 3.0	< 3.0	**	13	511	145	7.2
Jun-13	< 3.0	< 3.0 [<3.0]	4.1	< 3.0	< 3.0	< 3.0	**	< 3.0	14	< 3.0	< 3.0
Nov-13	2,722	7.0	4.9	< 3.0	< 3.0 [<3.0]	< 3.0	**	< 3.0	418	91	< 3.0
Jun-14	4,700	2,800	< 3.0	< 3.0	3.5	< 3.0	**	< 3.0 [<3.0]	770	8.0	< 3.0

TABLE 4
SUMMARY OF HISTORIC TOTAL XYLENE CONCENTRATIONS
2021 SEMI-ANNUAL MONITORING REPORT - MAY 2021
MAESTRI SITE
GEDDES, NEW YORK

Sample Date	MW-2A	MW-9	PZ-4	PZ-20	PZ-21	RW-3	RW-4	RW-5	RW-6	RW-7	RW-8
Oct-14	825	145	7.1	<1.0	<1.0	<1.0	**	<1.0	466 [470]	184.0	<1.0
May-15	407	<1.0	5.3	<1.0	< 1.0 [<1.0]	< 1.0	**	<1.0	604	16.6	2.0
Nov-15	769	739	5.3	<1.0	<1.0	15.4	**	<1.1	183 [208]	5.2	3.4
Apr-16	261	< 1.0	5.7	<1.0	<1.0	< 1.0	**	<1.0	707	22.6 [23.2]	< 1.0
Oct-16	68.3	< 1.0	4.3	<1.0	<1.0	< 1.0	**	<1.0	88.9 [94.5]	< 1.0	< 1.0
Apr-17	3,350	3,380	6.4	<1.0	< 1.0 [<1.0]	< 1.0	**	<1.0	333	0.4	< 1.0
Nov-17	< 3.0	< 3.0	4.6	< 3.0	< 3.0	< 3.0	**	< 3.0	< 3.0	3.0	<3.0 [<3.0]
Jun-18	1,020	870	10	<3.0	<3.0	<3.0	**	<3.0	70	21	<3.0 [<3.0]
Oct-18	170 [160]	410	4.3	<1.0	<1.0	<1.0	**	<1.0	150	13	<1.0
May-19	1,630	6,400 [3,700]	5.8	<1.0	<1.0	<1.0	**	<1.0	300	33	1.6
Oct-19	32 [23]	230	4.3J	<1.0	<1.0	<1.0	**	<1.0	9.5	<1.0	<1.0
May-20	1,270 [1,630]	1,270	5.2	<5.0	<5.0	<5.0	**	<5.0	267	<5.0	<5.0
Oct-20	284	520	NS	<5.0	<5.0	<5.0	**	<5.0 [<5.0]	62	114	<5.0
May-21	<2.0	<2.0 [<2.0]	NS	<2.0	<2.0	<2.0	**	<2.0	<2.0	<2.0	<2.0

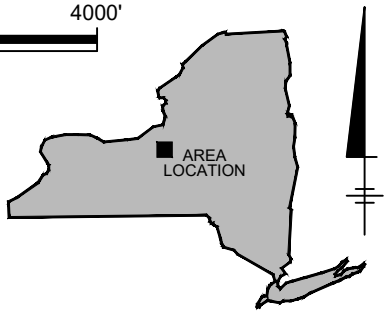
Notes:
All analytical results are in micrograms per liter (µg/L).
May 2021 samples were analyzed by Eurofins TestAmerica in Edison, NJ.
Monitoring well MW-2A was formerly known as RW-2 in 2006.
INC = Inconclusive laboratory result
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
NS = Not Sampled.
** - Wells No. 1 and 4 were removed as part of the excavation.
*****- PZ-20 was installed on June 24, 2009.
******- PZ-21 was installed on June 7, 2012.
[ ] - Indicates field duplicate sample result.

Figures

REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., CAMILLUS AND SYRACUSE WEST, NEW YORK, 2019.

0 2000' 4000'

SCALE



MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

SITE LOCATION MAP

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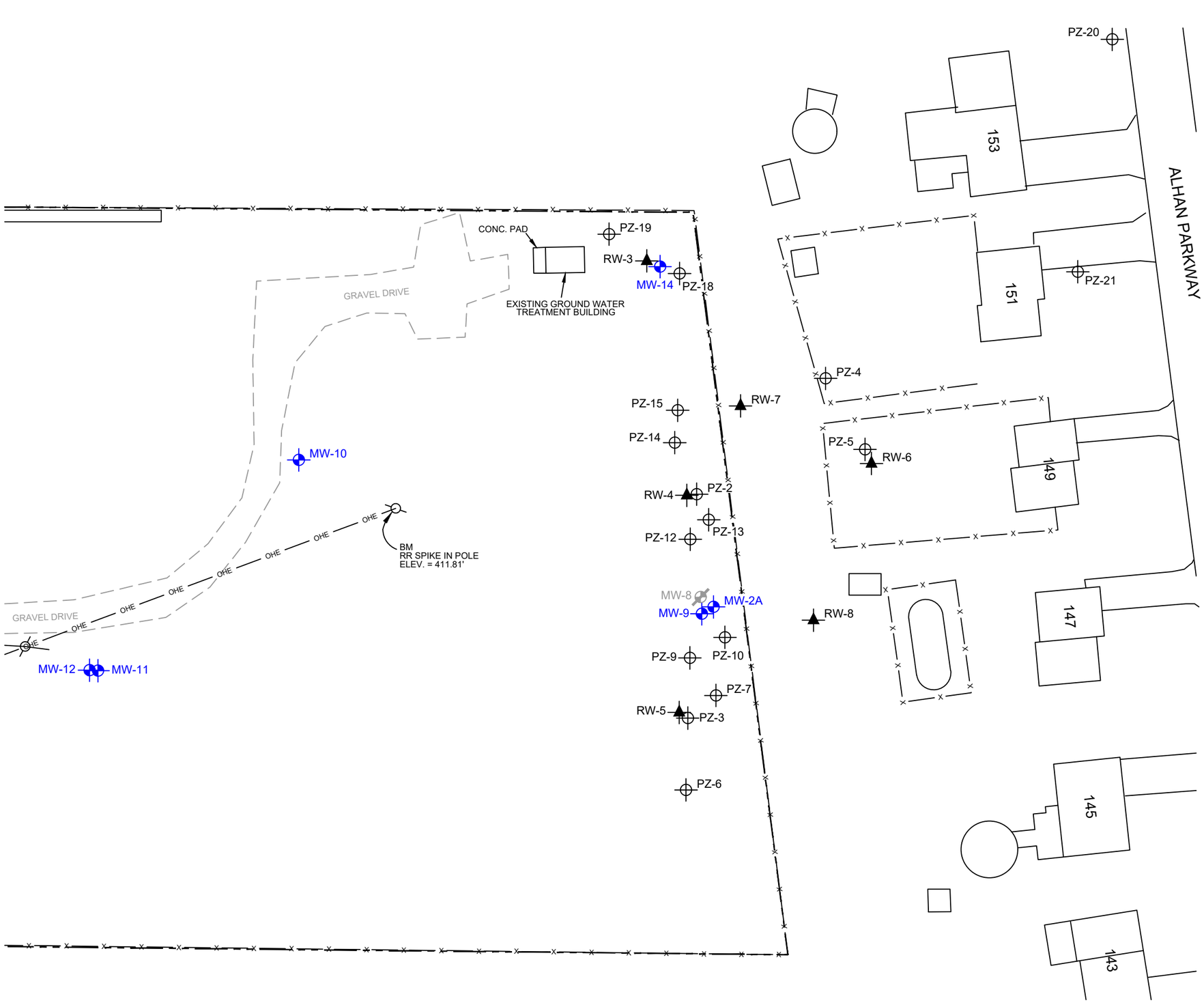
FIGURE
1



LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

SITE PLAN

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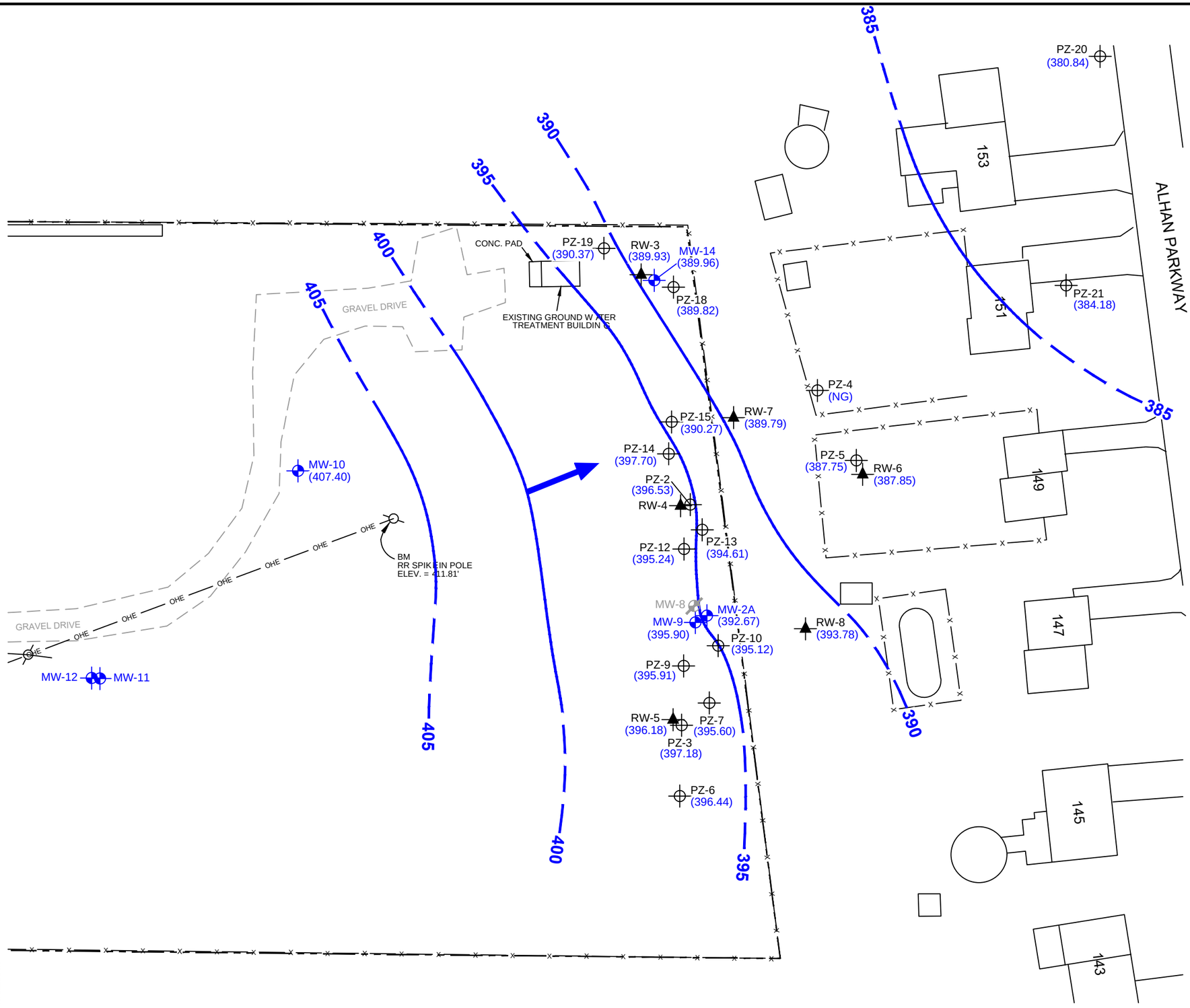
FIGURE
2



LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OHE — OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER
- (384.18) GROUNDWATER ELEVATION (FEET)
- 385 GROUNDWATER ELEVATION CONTOUR (FEET, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT/FOOT)
- (NG) NOT GAUGED THIS SAMPLING EVENT

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.
3. MONITORING WELLS WITHOUT GROUNDWATER ELEVATIONS ARE NOT GAUGED.

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

GROUNDWATER ELEVATION CONTOUR MAP MAY 17, 2021

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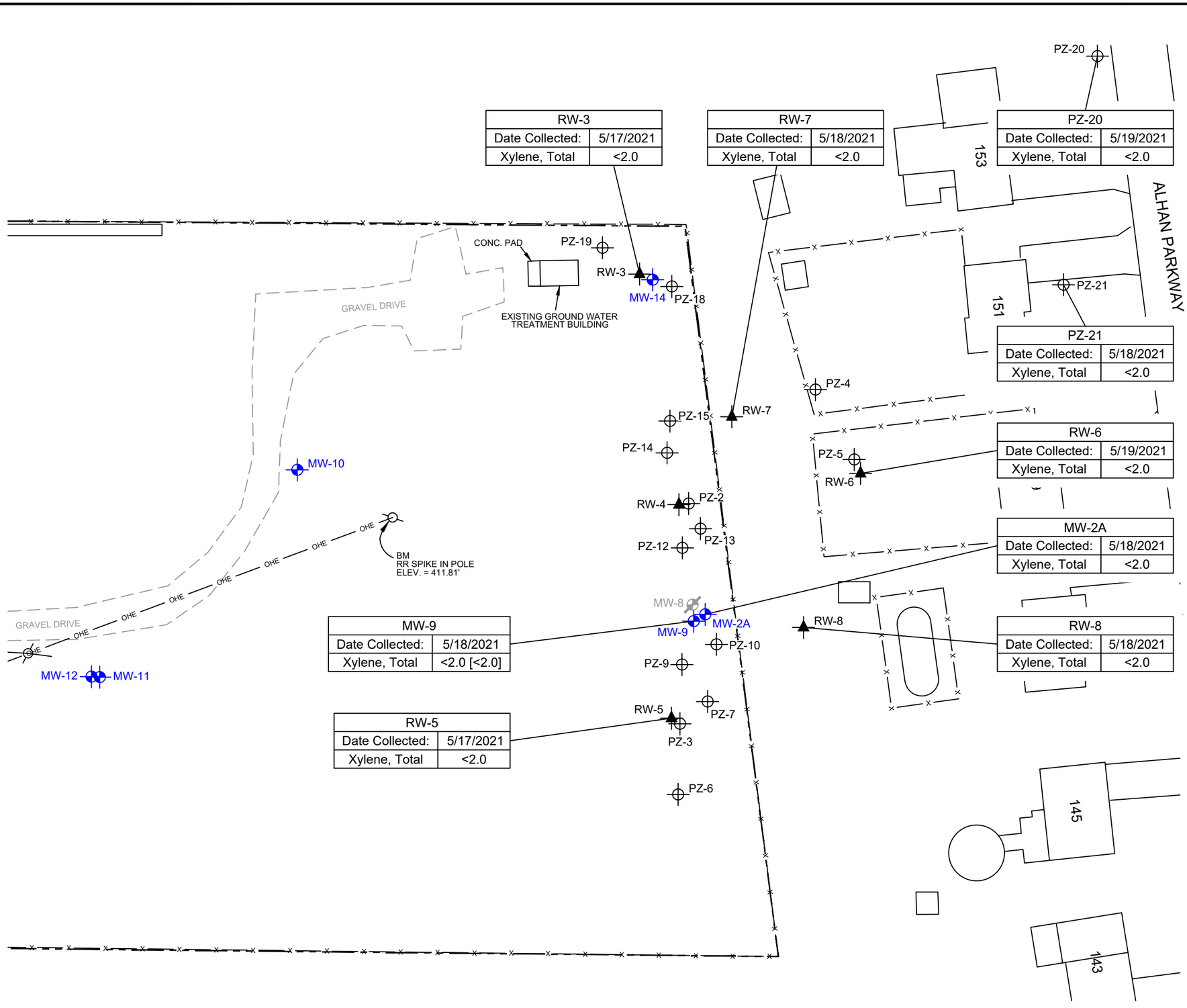
FIGURE 3



LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

Site Specific Cleanup Goals	
Xylene, Total	5

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.
3. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).
4. < = CONSTITUENT IS NOT DETECTED AND THE ASSOCIATED VALUE IS THE REPORTING LIMIT
5. [ ] = INDICATES FIELD DUPLICATE SAMPLE RESULT

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

GROUNDWATER ANALYTICAL RESULTS

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FIGURE
4

RW-3	
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB
MAY 2015	< 1.0 PPB
NOV 2015	16.4 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	< 1.0 PPB
NOV 2017	< 3.0 PPB
JUN 2018	< 3.0 PPB
OCT 2018	< 1.0 PPB
MAY 2019	< 1.0 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	< 5.0 PPB

RW-7	
JUN 2012	41 PPB
DEC 2012	145 PPB
JUN 2013	< 3.0 PPB
NOV 2013	91 PPB
JUN 2014	8.0 PPB
OCT 2014	184 PPB
MAY 2015	16.6 PPB
NOV 2015	5.2 PPB
APRIL 2016	22.6 PPB (DUP. 23.2 PPB)
OCT 2016	< 1.0 PPB
APRIL 2017	0.4 PPB
NOV 2017	3.0 PPB
JUN 2018	21 PPB
OCT 2018	13 PPB
MAY 2019	33 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	114 PPB

PZ-20	
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB
MAY 2015	< 1.0 PPB
NOV 2015	< 1.0 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	< 1.0 PPB
NOV 2017	< 3.0 PPB
JUN 2018	< 3.0 PPB
OCT 2018	< 1.0 PPB
MAY 2019	< 1.0 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	< 5.0 PPB

MW-2A	
JUN 2012	230 PPB
DEC 2012	2903 PPB
JUN 2013	< 3.0 PPB
NOV 2013	2722 PPB
JUN 2014	2,800 PPB
OCT 2014	825 PPB
MAY 2015	407 PPB
NOV 2015	769 PPB
APRIL 2016	261 PPB
OCT 2016	68.3 PPB
APRIL 2017	3,350 PPB
NOV 2017	< 3.0 PPB
JUN 2018	1020 PPB
OCT 2018	170 PPB (DUP. 160 PPB)
MAY 2019	1630 PPB
OCT 2019	32 PPB (DUP 23 PPB)
MAY 2020	1270 PPB (DUP 1630 PPB)
OCT 2020	284 PPB

MW-9	
JUN 2012	5370 PPB
DEC 2012	NS (DRY)
JUN 2013	< 3.0 PPB
NOV 2013	7.0 PPB
JUN 2014	4,700 PPB
OCT 2014	145 PPB
MAY 2015	< 1.0 PPB
NOV 2015	739 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	3,380 PPB
NOV 2017	< 3.0 PPB
JUN 2018	870 PPB
OCT 2018	410 PPB
MAY 2019	6400 PPB (DUP 3700 PPB)
OCT 2019	230 PPB
MAY 2020	1270 PPB
OCT 2020	520 PPB

RW-6	
JUN 2012	622 PPB
DEC 2012	511 PPB
JUN 2013	14 PPB
NOV 2013	418 PPB
JUN 2014	770 PPB
OCT 2014	466 PPB
MAY 2015	604 PPB
NOV 2015	185 PPB (2018 PPB)
APRIL 2016	707 PPB
OCT 2016	88.9 PPB (94.5 PPB)
APRIL 2017	333 PPB
NOV 2017	< 3.0 PPB
JUN 2018	70 PPB
OCT 2018	150 PPB
MAY 2019	300 PPB
OCT 2019	9.5 PPB
MAY 2020	267 PPB
OCT 2020	62 PPB

PZ-21	
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	3.5 PPB
OCT 2014	< 3.0 PPB
MAY 2015	< 1.0 PPB (DUP. < 1.0 PPB)
NOV 2015	< 1.0 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	< 1.0 PPB (DUP. < 1.0 PPB)
NOV 2017	< 3.0 PPB
JUN 2018	< 3.0 PPB
OCT 2018	< 1.0 PPB
MAY 2019	< 1.0 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	< 5.0 PPB

RW-5	
JUN 2012	< 3.0 PPB
DEC 2012	13 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB
MAY 2015	< 1.0 PPB
NOV 2015	< 1.0 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	< 1.0 PPB
NOV 2017	< 3.0 PPB
JUN 2018	< 3.0 PPB
OCT 2018	< 1.0 PPB
MAY 2019	< 1.0 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	< 5.0 PPB (DUP < 5.0 PPB)

PZ-4	
JUN 2012	< 3.0 PPB
DEC 2012	< 3.0 PPB
JUN 2013	4.1 PPB
NOV 2013	4.9 PPB
JUN 2014	< 3.0 PPB
OCT 2014	7.1 PPB
MAY 2015	5.3 PPB
NOV 2015	5.3 PPB
APRIL 2016	5.7 PPB
OCT 2016	4.3 PPB
APRIL 2017	6.4 PPB
NOV 2017	4.6 PPB
JUN 2018	10 PPB
OCT 2018	4.5 PPB
MAY 2019	5.8 PPB
OCT 2019	4.3J PPB
MAY 2020	5.2 PPB
OCT 2020	NS

RW-8	
JUN 2012	< 3.0 PPB
DEC 2012	7.2 PPB
JUN 2013	< 3.0 PPB
NOV 2013	< 3.0 PPB
JUN 2014	< 3.0 PPB
OCT 2014	< 3.0 PPB
MAY 2015	2.0 PPB
NOV 2015	3.4 PPB
APRIL 2016	< 1.0 PPB
OCT 2016	< 1.0 PPB
APRIL 2017	< 1.0 PPB
NOV 2017	< 3.0 PPB (DUP. < 3.0 PPB)
JUN 2018	< 3.0 PPB (DUP. < 3.0 PPB)
OCT 2018	< 1.0 PPB
MAY 2019	1.6 PPB
OCT 2019	< 1.0 PPB
MAY 2020	< 5.0 PPB
OCT 2020	< 5.0 PPB

RW-3 MW-14 PZ-18 RW-7 PZ-15 PZ-14 RW-4 PZ-2 PZ-12 PZ-13 MW-8 MW-9 MW-2A PZ-10 PZ-9 RW-5 PZ-7 PZ-3 PZ-6 PZ-4 PZ-5 RW-6 RW-8 MW-10 MW-12 MW-11 PZ-20 PZ-21

GRAVEL DRIVE

EXISTING GROUND WATER TREATMENT BUILDING

ALHAN PARKWAY

151

143

OHE

LEGEND

- MAESTRI SITE PROPERTY BOUNDARY
- 8' HIGH SECURITY FENCE
- ELECTRIC POLE
- OVERHEAD ELECTRIC LINE
- MONITORING WELL
- REMOVED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER

Site Specific Cleanup Goals	
Xylene, Total	5

NOTES:

1. BASE MAP SUPPLIED BY IT CORPORATION. SURVEY BY CT MALE, 2008.
2. FEATURES AND LOCATIONS ARE APPROXIMATE.
3. ALL CONCENTRATIONS REPORTED IN PARTS PER BILLION (PPB).
4. < = CONSTITUENT IS NOT DETECTED AND THE ASSOCIATED VALUE IS THE REPORTING LIMIT
5. (DUP.) = INDICATES DUPLICATE SAMPLE RESULT
6. NS = NOT SAMPLED

0 60' 120'

SCALE

MAESTRI SITE
904 STATE FAIR BOULEVARD, GEDDES, NEW YORK
SEMI-ANNUAL MONITORING REPORT

HISTORIC ANALYTICAL RESULTS

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FIGURE 5

Appendix A

2021 NYSDEC Response Letter

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 7
615 Erie Boulevard West, Syracuse, NY 13204-2400
P: (315) 426-7519, (315) 426-7551 | F: (315) 426-2653
www.dec.ny.gov

February 16, 2021

Charles Elmendorf
Stauffer Management Company, LLC
1800 Concord Pike
P.O. Box 15437
Wilmington, DE 19850

RE: Maestri Site, Town of Geddes, NY
NYSDEC Site# 734025
October 2020 Semi-Annual Groundwater Monitoring Report

Dear Mr. Elmendorf:

Thank you for providing the above referenced Groundwater Monitoring Report dated November 2020 for the Maestri Site in Town of Geddes, New York.

The NYSDEC has reviewed the Report and the proposed modifications to the groundwater monitoring program. The DEC recommends the following changes to the proposed modifications:

- The sampling frequency for Wells RW-3, RW-5, and RW-8 can be reduced to annually. If the samples remain non-detect or below the method detection limit of the test procedures through 2022, the wells can be decommissioned in accordance with NYSDEC Commissioner Policy 43: Groundwater Monitoring Well Decommissioning Policy; and
- Well PZ-4 can be decommissioned in accordance with NYSDEC Commissioner Policy 43: Groundwater Monitoring Well Decommissioning Policy.

Should you have any questions please contact me at (315) 426-7446 and thanks again for your efforts in continuing to move this project forward.

Sincerely,

Michael Belveg
Assistant Engineer (Environmental), Division of Environmental Remediation

Ec: Joshua Cook, NYSDEC
Margaret Rudzinski, Envirospec Engineering, PLLC
John-Paul Rossi, AstraZeneca

Appendix B

NYSDEC Low-Flow Approval Email

Matt, Luke

From: Hensel, Rebecca
Sent: Tuesday, May 18, 2021 11:45 AM
To: Matt, Luke; O'Leary, Zoe
Subject: FW: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Please save and file

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com
Arcadis | U.S., Inc.
110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA
T. +1 315.671.9296 C. +1 315.751.3069

Connect with us! www.arcadis.com | LinkedIn | Twitter | Facebook

ARCADIS Design & Consultancy for natural and built assets

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Sent: Tuesday, May 18, 2021 11:32 AM
To: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Hi Rebecca,

This is acceptable to the Department for the 2021 sampling events.

Thanks,
Mike

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Sent: Thursday, May 13, 2021 2:09 PM
To: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>; Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>
Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Good Morning Mike,

Thank you again for taking time to discuss the sampling activities at the Maestri site. As discussed during the meeting Stauffer Management Company is requesting to utilize low flow groundwater sampling methodology in place of 3 volume purge for the 2021 sampling events (May &October). A results comparison of the new results from the Low Flow sampling will be compared to the previously collected 3 Volume purge samples in the 2021 Periodic Review Report.

Please let us know if this is acceptable and if you have any additional questions

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com
Arcadis | U.S., Inc.
110 West Fayette Street Suite 300, Syracuse, NY | 13202 | USA
T. +1 315.671.9296 C. +1 315.751.3069

From: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Sent: Tuesday, May 11, 2021 11:30 AM
To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>; Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Subject: RE: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Thanks Mike for the information and taking the time to meet with us. Look forward to working with you on this matter. Best, John-Paul

---

From: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Sent: Tuesday, May 11, 2021 9:14 AM
To: rebecca.hensel@arcadis.com
Cc: Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Subject: Re: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

james.sullivan@health.ny.gov

From: Hensel, Rebecca <Rebecca.Hensel@arcadis.com>
Sent: Monday, May 3, 2021 5:38 PM
To: Belveg, Michael J (DEC) <michael.belveg@dec.ny.gov>
Cc: Finocchiaro, Victor <Victor.Finocchiaro@arcadis.com>; Rossi, John-Paul <Johnpaul.rossi@astrazeneca.com>
Subject: NYSDEC Site No. 7-34-025 Maestri Site Stauffer Management Company - Introduction

Good Afternoon Michael,

Arcadis has recently taken over the sampling and reporting activities for the Maestri and Novack sites and we would like to set up an introduction meeting to discuss upcoming sampling events and sampling methodologies.

Please let me know if you have preferred days/times you would like to meet.

Thank you,
Rebecca

Rebecca Hensel, EIT | Environmental Engineer | rebecca.hensel@arcadis.com
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Be green, leave it on the screen.

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Appendix C

Sampling Forms

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Maestri Site Semi-Annual Event

Well ID: RW-5

Project Number: 30077261
Task: 01
Date: 5/17/21
Well Headspace PID: N/A
Sampling Time: 1217
Sampled By: Jason Gutkowski
Weather: 75°F Sunny
Coded Replicate No.: —
Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID —	Water Quality Meter(s) YSI ProDSS
21C163748		

Purging Information

Casing Material: Steel
Casing Diameter: 6" in
Total Depth: 25.93 ft
Depth to Product: N/A ft
Depth to Water: 13.00 ft
Water Column: 12.93 ft
Gallons in Well: 19.60 gal

Purge Method: (circle one) Submersible Centrifugal Bladder
Screen Interval: From: — To: —
Pump Intake Setting: —
—
Total Volume Purged: 1.71 gal.
Pump on: 1138 Off: ~~1220~~ 1216

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1140	0	180	13.27	525.1	6.97	-75.4	0.967	10.7	2.01	
1145	5	180	13.42	14.98	6.81	+66.3	0.849	12.0	0.13	
1150	10	180	13.56	14.77	6.72	67.1	0.844	11.4	+0.01	
1155	15	180	13.71	14.64	6.72	71.3	0.847	10.8	+0.09	
1200	20	180	13.83	14.58	6.72	66.2	0.835	10.9	+0.05	
1205	25	180	13.95	14.55	6.72	70.8	0.845	10.6	0.02	
1210	30	180	14.03	14.53	6.72	69.7	0.837	10.5	0.02	
1215	35	180	14.11	14.51	6.72	70.4	0.836	10.3	0.02	
	40									
	45									
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear
Odor: None

Well Condition: Good
Purge Water Disposal: 250 gal. Poly Tank

ARCADIS

Maestri Site Semi-Annual Event

Well ID: RW-3

Project Number: 30077261 Task: 01

Date: 5/17/21 Well Headspace PID: —

Sampling Time: 1524 Sampled By: Jason Gutkowski

Weather: 79°F Sunny Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID —	Water Quality Meter(s) YSI ProDSS

21C103748

Purging Information

Casing Material: Steel

Casing Diameter: 6" in

Total Depth: 27.08 ft

Depth to Product: N/A ft

Depth to Water: 17.18 ft

Water Column: 9.90 ft

Gallons in Well: 14.55 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: — To: —

Pump Intake Setting: —

Total Volume Purged: 2.57 gal.

Pump on: 1413 Off: 1522

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1415	0	150	17.32	3.24	6.82	-59.7	1.656	10.5	±0.13	
1420	5	150	17.44	3.53	6.86	-85.4	1.599	10.9	±0.01	
1425	10	150	17.59	3.45	6.85	-93.9	1.591	10.5	±0.05	
1430	15	150	17.68	3.39	6.91	-89.3	1.494	10.5	±0.03	
1435	20	150	17.76	3.03	6.91	-89.9	1.495	10.6	±0.07	
1440	25	150	17.77	2.80	6.89	-84.7	1.489	10.6	±0.08	
1445	30	150	17.76	1.93	6.88	-83.5	1.481	10.7	±0.22	
1450	35	150	17.78	1.90	6.87	-81.6	1.474	10.6	±0.29	
1455	40	150	17.77	1.87	6.88	-78.5	1.466	10.6	±0.48	
1500	45	150	17.78	1.82	6.89	-73.3	1.459	10.5	±0.68	
1505	50	150	17.78	1.76	6.89	-69.4	1.451	10.5	±0.66	
1510	55	150	17.77	1.73	6.89	-60.3	1.444	10.5	±0.63	
1515	60	150	17.78	1.66	6.90	-58.5	1.442	10.5	±0.65	
1520	65	150	17.78	1.62	6.91	-56.6	1.442	10.6	±0.66	
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear

Odor: None

Well Condition: Good

Purge Water Disposal: 250gal. Poly Tank

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Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: MW-2A

Project Number: 30077261 Task: 01

Date: 5/18/21 Well Headspace PID: —

Sampling Time: 0757 Sampled By: Jason Gutkowski

Weather: 54°F Sunny Coded Replicate No.:

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID —	Water Quality Meter(s) YSI Pro DSS
21C103748		

Purging Information

Sample w/Bailer

Casing Material: Steel

Purge Method: (circle one) (Submersible) Centrifugal Bladder

Casing Diameter: 8" in

Screen Interval: From: — To: —

Total Depth: 22.93 ft

Pump Intake Setting: 20.93

Depth to Product: N/A ft

Depth to Water: 13.80 ft

Total Volume Purged: 3.17 gal.

Water Column: 9.13 ft

Pump on: 0713 Off: 0757

Gallons in Well: 23.82 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
0715	0	300	13.85	127.52	6.90	126.0	0.963	9.0	0.97	
0720	5	300	13.88	2.64	6.98	113.6	1.004	9.5	0.62	
0725	10	300	13.90	1.98	7.03	66.7	1.072	9.5	0.28	
0730	15	300	13.90	2.03	7.00	35.4	1.012	9.5	0.28	
0735	20	300	13.90	2.00	7.03	8.2	1.044	9.4	0.27	
0740	25	300	13.90	2.01	7.03	-41.1	1.040	9.4	0.26	
0745	30	300	13.90	1.97	7.03	-45.4	1.044	9.4	0.26	
0750	35	300	13.90	1.99	7.03	-47.5	1.043	9.3	0.25	
0755	40	300	13.90	1.95	7.03	-48.9	1.041	9.3	0.25	
	45									
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear Well Condition: Good

Odor: None Purge Water Disposal: 250 gal. Poly Tank

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Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: MW-9

Project Number: 30077261 Task: 01

Date: 5/18/21 Well Headspace PID: —

Sampling Time: 0937 Sampled By: Jason Gutkowski

Weather: 62°F Sunny Coded Replicate No.: BD(051821)

Replicate Type (circle one): (Duplicate) (MS/MSD)

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
21C103748	—	YSI ProDSS

Purging Information

Sample W/ Bailer

Casing Material: PVC

Casing Diameter: 2" in

Total Depth: 18.70 ft

Depth to Product: N/A ft

Depth to Water: 13.10 ft

Water Column: 5.60 ft

Gallons in Well: 0.91 gal

Purge Method: (circle one) (Submersible) Centrifugal Bladder

Screen Interval: From: — To: —

Pump Intake Setting: 16.70

Total Volume Purged: 0.82 gal.

Pump on: 0909 Off: 0937

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
0910	125 0	125	13.23	6.79	6.95	93.2	0.821	10.7	3.54	
0915	125 5	125	13.20	5.97	6.86	104.6	0.825	11.5	3.10	
0920	125 10	125	13.20	5.81	6.85	106.5	0.825	13.2	3.07	
0925	125 15	125	13.20	5.80	6.85	106.1	0.832	13.9	3.04	
0930	125 20	125	13.20	5.72	6.84	104.9	0.829	13.9	2.98	
0935	125 25	125	13.20	5.70	6.84	105.1	0.830	13.9	2.93	
	30									
	35									
	40									
	45									
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	
3-40ml Glass Vial	"	"	Blind Dup
3-40ml Glass Vial	"	"	MS
3-40ml Glass Vial	"	"	MSD

Color: Clear

Odor: None

Well Condition: Good

Purge Water Disposal: 250 gal. Poly Tank

ARCADIS

Page 1 of 1

Maestri Site Semi-Annual Event

Well ID: RW-8

Project Number: 30077261 Task: 01

Date: 5/18/21 Well Headspace PID: —

Sampling Time: ~~76°F Sunny~~ 1237 Sampled By: Jason Gutkowski

Weather: 76°F Sunny Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID —	Water Quality Meter(s) YSI ProDSS

21C103748

Purging Information

Sample w/ Bailer

Casing Material: Steel

Casing Diameter: 6" in

Total Depth: 25.55 ft

Depth to Product: N/A ft

Depth to Water: 13.13 ft

Water Column: 12.42 ft

Gallons in Well: 18.25 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: — To: —

Pump Intake Setting: 23.55

Total Volume Purged:

Pump on: 1158 Off: 1237

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1200	0	110	13.19	29.91	7.14	93.7	0.813	11.1	3.64	
1205	5	110	13.16	28.81	7.09	89.4	0.806	10.3	3.11	
1210	10	110	13.16	27.73	7.05	85.3	0.802	9.8	2.58	
1215	15	110	13.15	21.49	7.05	61.0	0.799	9.1	2.47	
1220	20	110	13.15	20.39	7.04	52.8	0.803	9.2	2.21	
1225	25	110	13.15	17.28	7.04	50.0	0.795	9.2	1.98	
1230	30	110	13.15	16.77	7.04	47.5	0.801	9.2	1.88	
1235	35	110	13.15	16.48	7.04	47.1	0.805	9.2	1.86	
	40									
	45									
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear

Odor: None

Well Condition: Good Condition

Purge Water Disposal: 250 gal. Poly Tank

ARCADIS

Maestri Site Semi-Annual Event

Well ID: RW-7

Project Number: 30077261 Task: 01

Date: 5/18/21 Well Headspace PID: —

Sampling Time: 1411 Sampled By: Jason Guthowski

Weather: 79°F Sunny Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID —	Water Quality Meter(s) YSI ProDSS

21C103748

Purging Information

Sample w/ Bailer

Casing Material: Steel

Purge Method: (circle one) Submersible Centrifugal Bladder

Casing Diameter: 6" in

Screen Interval: From: — To: —

Total Depth: 28.13 ft

Pump Intake Setting: 26.13

Depth to Product: N/A ft

Depth to Water: 16.15 ft

Total Volume Purged: 1.03 gal.

Water Column: 11.98 ft

Pump on: 1337 Off: 1411

Gallons in Well: 17.61 gal

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1340	0	130	16.48	8.19	7.22	-143.7	1.176	11.1	1.59	
1345	5	130	16.40	2.03	7.22	-152.5	1.172	9.5	1.32	
1350	10	130	16.40	1.85	7.22	-162.5	1.165	9.5	1.33	
1355	15	130	16.39	1.53	7.22	-170.9	1.154	9.7	1.27	
1400	20	130	16.39	1.51	7.22	-171.4	1.151	9.6	1.25	
1405	25	130	16.39	1.47	7.23	-174.8	1.151	9.6	1.22	
1410	30	130	16.39	1.42	7.23	-175.8	1.149	9.6	1.20	
	35									
	40									
	45									
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Well in good condition

Color: Clear

Odor: None

Well Condition: No J Plug & ~~Broken~~ Broke Cover on Casing

Purge Water Disposal: 250gal. Poly Tank

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ARCADIS

Maestri Site Semi-Annual Event

Well ID: RW-6

Project Number: 30077261
Task: 01
Date: 5/19/21
Well Headspace PID: —
Sampling Time: 1112
Sampled By: Jason Gothowski
Weather: 75°F sunny
Coded Replicate No.: —
Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
21C103748	—	YSI Pro DSS

Purging Information

Casing Material: steel
Casing Diameter: 6" in
Total Depth: 19.16 ft
Depth to Product: N/A ft
Depth to Water: 5.79 ft
Water Column: 13.37 ft
Gallons in Well: 19.65 gal

Purge Method: (circle one) Submersible Centrifugal Bladder
Screen Interval: From: — To: —
Pump Intake Setting: 17.16
Total Volume Purged: 1.98 gal.
Pump on: 1018 Off: 1112

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1020	0	150	5.90	216.47	7.41	15.4	0.013	12.0	4.19	
1025	5	150	5.82	35.42	7.41	-37.5	0.903	11.1	2.89	
1030	10	150	5.82	17.05	7.41	-46.2	0.945	10.5	2.83	
1035	15	150	5.82	12.51	7.45	-72.8	0.990	10.5	2.81	
1040	20	150	5.82	8.92	7.46	-67.2	0.995	10.5	2.80	
1045	25	150	5.82	6.70	7.48	-89.4	1.067	10.6	2.81	
1050	30	150	5.82	6.56	7.54	-97.3	1.097	10.5	2.79	
1055	35	150	5.82	6.50	7.55	-106.3	1.119	10.5	2.77	
1100	40	150	5.82	6.39	7.55	-114.4	1.140	10.6	2.77	
1105	45	150	5.82	6.32	7.55	-117.5	1.161	10.6	2.74	
1110	50	150	5.82	6.25	7.56	-121.1	1.167	10.7	2.71	
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear
Odor: None
Well Condition: Good
Purge Water Disposal: 250 gal. Poly Tank

ARCADIS

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Maestri Site Semi-Annual Event

Well ID: PZ-21

Project Number: 30077261

Task: 01

Date: 5/19/21

Well Headspace PID: —

Sampling Time: 1246

Sampled By: Jason Gutkowski

Weather: 82°F

Coded Replicate No.: —

Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
21C103748	—	YSI ProDSS

Purging Information

Casing Material: PVC

Casing Diameter: 2" in

Total Depth: 18.73 ft

Depth to Product: N/A ft

Depth to Water: 2.84 ft

Water Column: 15.89 ft

Gallons in Well: 2.59 gal

Purge Method: (circle one) Submersible Centrifugal Bladder

Screen Interval: From: — To: —

Pump Intake Setting: 16.73

Total Volume Purged: 2.49 gal.

Pump on: 1159 Off: 1246

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1200	0	210	3.24	25.15	7.30	-78.6	1.089	13.0	3.04	
1205	5	210	3.00	5.79	7.31	-95.3	1.084	11.8	2.88	
1210	10	210	3.00	3.77	7.31	-100.9	1.083	12.3	2.72	
1215	15	210	3.00	3.38	7.33	-109.7	1.087	12.0	2.59	
1220	20	210	3.00	2.98	7.33	-111.6	1.083	12.0	2.54	
1225	25	210	3.00	2.76	7.31	-108.2	1.096	12.0	2.57	
1230	30	210	3.00	2.78	7.30	-100.6	1.099	12.1	2.55	
1235	35	210	3.00	2.77	7.30	-106.4	1.085	12.1	2.53	
1240	40	210	3.00	2.75	7.30	-112.6	1.076	12.1	2.54	
1245	45	210	3.00	2.71	7.30	-115.0	1.069	12.1	2.56	
	50									
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear

Odor: None

Well Condition: Good

Purge Water Disposal: 250 gal. Poly Tank

ARCADIS

Maestri Site Semi-Annual Event

Well ID: P2-20

Project Number: 30077261
Task: 01
Date: 5/19/21
Well Headspace PID: —
Sampling Time: 1426
Sampled By: Jason Gutkowski
Weather: 85 Sunny
Coded Replicate No.: —
Replicate Type (circle one): ~~Duplicate~~ ~~MS/MSD~~

Instrument Identification

Serial #:	PID	Water Quality Meter(s)
21C103748	—	YSI Pro DSS

Purging Information

Casing Material: PVC
Casing Diameter: 2" in
Total Depth: 19.65 ft
Depth to Product: N/A ft
Depth to Water: 5.25 ft
Water Column: 14.40 ft
Gallons in Well: 2.34 gal

Purge Method: (circle one) Submersible Centrifugal Bladder
Screen Interval: From: — To: —
Pump Intake Setting: 17.65
Total Volume Purged: 1.38 gal.
Pump on: 1333 Off: 1426

Field Parameter Measurements Taken During Purging

Time	Minutes Elapsed	Rate (ml/min)	Depth to Water	Turbidity (NTUs)	pH (SI Units)	ORP (mV)	Conductivity (MS/cm)3	Temp (°C)	DO (mg/L)	Comments
	Stabilization Range		<0.3 ft.	10% if >1	+/- 0.1	+/- 10	3%	3%	10%	
1335	0	105	5.89	32.25	7.15	-75.2	1.509	14.2	2.92	
1340	5	105	5.70	26.45	7.13	-81.8	1.506	14.1	2.98	
1345	10	105	5.49	18.81	7.14	-88.8	1.529	14.3	2.79	
1350	15	105	5.41	18.32	7.14	-95.2	1.548	14.7	2.68	
1355	20	105	5.41	17.60	7.14	-96.6	1.521	15.4	2.42	
1400	25	105	5.41	16.73	7.15	-97.2	1.517	15.8	2.31	
1405	30	105	5.41	15.75	7.15	-98.0	1.512	16.3	2.29	
1410	35	105	5.41	15.02	7.16	-98.5	1.510	16.5	2.22	
1415	40	105	5.41	13.11	7.16	-99.4	1.506	16.6	2.18	
1420	45	105	5.41	12.72	7.16	-102.8	1.504	16.6	2.14	
1425	50	105	5.41	12.56	7.16	-106.4	1.501	16.7	2.10	
	55									
	60									
	65									
	70									

Number and Type of Bottle	Analytical Parameter	Preservative	Collected
3 - 40 mL Glass Vial	VOCs - Xylenes	HCL	

Color: Clear
Odor: None
Well Condition: Good, No JPlug
Purge Water Disposal: 250gal. Poly Tank

Appendix D

Laboratory Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-234686-1
Client Project/Site: Maestri - Geddes, NY

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Lukas Matt

Allison Bennett

Authorized for release by:
5/25/2021 3:30:51 PM

Allison Bennett, Project Manager I
(732)593-2517
Allison.Bennett@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

Job ID: 460-234686-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Maestri - Geddes, NY

Report Number: 460-234686-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 5/18/2021 10:00 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 2.1º C.

Receipt Exceptions

Per client request on 5/18/21, the MS/MSD and Blind Duplicate submitted with these samples has been cancelled. A revised COC was provided.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples RW-5 (460-234686-1), TB (051721) (460-234686-3), FB (051721) (460-234686-4) and RW-3 (460-234686-5) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 05/20/2021.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

Client Sample ID: RW-5 — Lab Sample ID: 460-234686-1

No Detections.

Client Sample ID: TB (051721) — Lab Sample ID: 460-234686-3

No Detections.

Client Sample ID: FB (051721) — Lab Sample ID: 460-234686-4

No Detections.

Client Sample ID: RW-3 — Lab Sample ID: 460-234686-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW-5

Lab Sample ID: 460-234686-1
Date Collected: 05/17/21 12:17
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*60 - 140*		*05/20/21 10:37*	*1*
Dibromofluoromethane (Surr)	*120*		*60 - 140*		*05/20/21 10:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 10:37*	*1*
Toluene-d8 (Surr)	*113*		*60 - 140*		*05/20/21 10:37*	*1*

Client Sample ID: TB (051721)

Lab Sample ID: 460-234686-3
Date Collected: 05/17/21 00:00
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 13:27*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 13:27*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 13:27*	*1*

Client Sample ID: FB (051721)

Lab Sample ID: 460-234686-4
Date Collected: 05/17/21 13:25
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 13:52*	*1*
Dibromofluoromethane (Surr)	*124*		*60 - 140*		*05/20/21 13:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 13:52*	*1*
Toluene-d8 (Surr)	*112*		*60 - 140*		*05/20/21 13:52*	*1*

Client Sample ID: RW-3

Lab Sample ID: 460-234686-5
Date Collected: 05/17/21 15:24
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 14:17*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/20/21 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 14:17*	*1*
Toluene-d8 (Surr)	*112*		*60 - 140*		*05/20/21 14:17*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-234686-1	RW-5	112	120	123	113
460-234686-3	TB (051721)	116	122	124	115
460-234686-4	FB (051721)	111	124	125	112
460-234686-5	RW-3	111	123	125	112
460-234720-B-4 MS	Matrix Spike	113	124	124	114
460-234720-B-4 MSD	Matrix Spike Duplicate	114	120	122	114
LCS 460-779090/4	Lab Control Sample	114	121	123	116
MB 460-779090/8	Method Blank	113	122	125	115

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 460-779090/8
Matrix: Water
Analysis Batch: 779090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/20/21 08:59*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 08:59*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 08:59*	*1*

Lab Sample ID: LCS 460-779090/4
Matrix: Water
Analysis Batch: 779090

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			40.0	35.9		ug/L		90	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*60 - 140*
Dibromofluoromethane (Surr)	*121*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*
Toluene-d8 (Surr)	*116*		*60 - 140*

Lab Sample ID: 460-234720-B-4 MS
Matrix: Water
Analysis Batch: 779090

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total	2.0	U	40.0	36.8		ug/L		92	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*60 - 140*
Dibromofluoromethane (Surr)	*124*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

Lab Sample ID: 460-234720-B-4 MSD
Matrix: Water
Analysis Batch: 779090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	2.0	U	40.0	38.0		ug/L		95	60 - 140	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*60 - 140*
Dibromofluoromethane (Surr)	*120*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

GC/MS VOA

Analysis Batch: 779090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-234686-1	RW-5	Total/NA	Water	624.1	
460-234686-3	TB (051721)	Total/NA	Water	624.1	
460-234686-4	FB (051721)	Total/NA	Water	624.1	
460-234686-5	RW-3	Total/NA	Water	624.1	
MB 460-779090/8	Method Blank	Total/NA	Water	624.1	
LCS 460-779090/4	Lab Control Sample	Total/NA	Water	624.1	
460-234720-B-4 MS	Matrix Spike	Total/NA	Water	624.1	
460-234720-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

Client Sample ID: RW-5
Date Collected: 05/17/21 12:17
Date Received: 05/18/21 10:00

Lab Sample ID: 460-234686-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 10:37	CJM	TAL EDI

Client Sample ID: TB (051721)
Date Collected: 05/17/21 00:00
Date Received: 05/18/21 10:00

Lab Sample ID: 460-234686-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 13:27	CJM	TAL EDI

Client Sample ID: FB (051721)
Date Collected: 05/17/21 13:25
Date Received: 05/18/21 10:00

Lab Sample ID: 460-234686-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 13:52	CJM	TAL EDI

Client Sample ID: RW-3
Date Collected: 05/17/21 15:24
Date Received: 05/18/21 10:00

Lab Sample ID: 460-234686-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 14:17	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 460-234686-1
Project/Site: Maestri - Geddes, NY

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-234686-1	RW-5	Water	05/17/21 12:17	05/18/21 10:00	
460-234686-3	TB (051721)	Water	05/17/21 00:00	05/18/21 10:00	
460-234686-4	FB (051721)	Water	05/17/21 13:25	05/18/21 10:00	
460-234686-5	RW-3	Water	05/17/21 15:24	05/18/21 10:00	

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ΔΡΑ ☑Οτηερ:

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	of COCs
Address: 110 W. Fayette St.			Sampler:
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.:
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
RW-5	5/17/21	1217	G	W	3	X						
TB (051721)	5/17/21	—	↓	↓	2	X						
FB (051721)	5/17/21	1325			3	X						
RW-3	5/17/21	1524			3	X						
						1/2						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 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 Section if the lab is to dispose of the sample.

☐ ☐ ☐ Νον-Ηαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Δισποσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Υες ☐ Νο	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID

Relinquished by: Dan Nyitti	Company: Arcadis	Date/Time: 5/17/21	Received by:		Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:		Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:		Date/Time:

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ΡΚΡΑ ☑ Οτηερ:

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	\ of \ COCs
Address: 110 W. Fayette St.			Sampler:
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client: Syracuse
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		#225
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.:
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)					Sample Specific Notes:
RW-5	5/17/21	1217	G	W	3	X					1
MS RW-5	5/17/21	1217	↓	↓	3	X					1
MSD RW-5	5/17/21	1217	↓	↓	3	X					1
BD 051721	5/17/21	—	↓	↓	3	X					2
TB (051721)	5/17/21	—	↓	↓	2	X					3
FB (051721)	5/17/21	1325	↓	↓	3	X					4
RW-3	5/17/21	1524	↓	↓	3	X					5

5-17-21

460-234686 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 1/2

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Νον-Ηαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Διστοσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Ψεσ	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd: Therm ID	
Relinquished by: Dan Minutelli	Company: Arcadis	Date/Time: 5/17/21 / 1726	Received by: ES Syn	Date/Time: 5/17/21 1726
Relinquished by: R. Laughlin	Company: Pye	Date/Time: 5-17-21, 1900	Received by: [illegible] Edix	Date/Time: 5/18/21 1000 [illegible]
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:

CSH 1521R32

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 234686

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.6 °C	2.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: AG **Date:** 5/18/21

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-234686-1

Login Number: 234686
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 containers received 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-234686-1

Login Number: 234686
List Number: 2
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-234720-1
Client Project/Site: Maestri - Geddes, NY

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Lukas Matt

Allison Bennett

Authorized for release by:
5/25/2021 3:32:26 PM

Allison Bennett, Project Manager I
(732)593-2517
Allison.Bennett@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

Job ID: 460-234720-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Maestri - Geddes, NY

Report Number: 460-234720-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 5/19/2021 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 4.1º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples MW-2A (460-234720-1), TB (051821) (460-234720-2), FB (051821) (460-234720-3), MW-9 (460-234720-4), BD (051821) (460-234720-5), RW-8 (460-234720-6) and RW-7 (460-234720-7) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 05/20/2021.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 460-234720-1
Project/Site: Maestri - Geddes, NY

Client Sample ID: MW-2A — Lab Sample ID: 460-234720-1

No Detections.

Client Sample ID: TB (051821) — Lab Sample ID: 460-234720-2

No Detections.

Client Sample ID: FB (051821) — Lab Sample ID: 460-234720-3

No Detections.

Client Sample ID: MW-9 — Lab Sample ID: 460-234720-4

No Detections.

Client Sample ID: BD (051821) — Lab Sample ID: 460-234720-5

No Detections.

Client Sample ID: RW-8 — Lab Sample ID: 460-234720-6

No Detections.

Client Sample ID: RW-7 — Lab Sample ID: 460-234720-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-2A

Lab Sample ID: 460-234720-1
Matrix: Water
Date Collected: 05/18/21 07:57
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 14:41*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 14:41*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 14:41*	*1*

Client Sample ID: TB (051821)

Lab Sample ID: 460-234720-2
Matrix: Water
Date Collected: 05/18/21 00:00
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*60 - 140*		*05/20/21 09:24*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 09:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 09:24*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 09:24*	*1*

Client Sample ID: FB (051821)

Lab Sample ID: 460-234720-3
Matrix: Water
Date Collected: 05/18/21 08:30
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/20/21 09:49*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 09:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 09:49*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 09:49*	*1*

Client Sample ID: MW-9

Lab Sample ID: 460-234720-4
Matrix: Water
Date Collected: 05/18/21 09:37
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 10:13*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*		*05/20/21 10:13*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 10:13*	*1*

Client Sample ID: BD (051821)

Lab Sample ID: 460-234720-5

Date Collected: 05/18/21 00:00
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*60 - 140*		*05/20/21 15:05*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*		*05/20/21 15:05*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 15:05*	*1*

Client Sample ID: RW-8

Lab Sample ID: 460-234720-6

Date Collected: 05/18/21 12:37
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 15:30*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 15:30*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 15:30*	*1*

Client Sample ID: RW-7

Lab Sample ID: 460-234720-7

Date Collected: 05/18/21 14:11
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 15:55*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/20/21 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 15:55*	*1*
Toluene-d8 (Surr)	*113*		*60 - 140*		*05/20/21 15:55*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-234720-1	MW-2A	116	122	123	114
460-234720-2	TB (051821)	114	122	124	114
460-234720-3	FB (051821)	113	121	123	115
460-234720-4	MW-9	116	121	121	115
460-234720-4 MS	MW-9	113	124	124	114
460-234720-4 MSD	MW-9	114	120	122	114
460-234720-5	BD (051821)	114	122	122	114
460-234720-6	RW-8	116	121	124	115
460-234720-7	RW-7	111	123	123	113
LCS 460-779090/4	Lab Control Sample	114	121	123	116
MB 460-779090/8	Method Blank	113	122	125	115

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 460-779090/8
Matrix: Water
Analysis Batch: 779090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/20/21 08:59*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 08:59*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 08:59*	*1*

Lab Sample ID: LCS 460-779090/4
Matrix: Water
Analysis Batch: 779090

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			40.0	35.9		ug/L		90	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*60 - 140*
Dibromofluoromethane (Surr)	*121*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*
Toluene-d8 (Surr)	*116*		*60 - 140*

Lab Sample ID: 460-234720-4 MS
Matrix: Water
Analysis Batch: 779090

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total	2.0	U	40.0	36.8		ug/L		92	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*60 - 140*
Dibromofluoromethane (Surr)	*124*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

Lab Sample ID: 460-234720-4 MSD
Matrix: Water
Analysis Batch: 779090

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	2.0	U	40.0	38.0		ug/L		95	60 - 140	3	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*114*		*60 - 140*
Dibromofluoromethane (Surr)	*120*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

GC/MS VOA

Analysis Batch: 779090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-234720-1	MW-2A	Total/NA	Water	624.1	
460-234720-2	TB (051821)	Total/NA	Water	624.1	
460-234720-3	FB (051821)	Total/NA	Water	624.1	
460-234720-4	MW-9	Total/NA	Water	624.1	
460-234720-5	BD (051821)	Total/NA	Water	624.1	
460-234720-6	RW-8	Total/NA	Water	624.1	
460-234720-7	RW-7	Total/NA	Water	624.1	
MB 460-779090/8	Method Blank	Total/NA	Water	624.1	
LCS 460-779090/4	Lab Control Sample	Total/NA	Water	624.1	
460-234720-4 MS	MW-9	Total/NA	Water	624.1	
460-234720-4 MSD	MW-9	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

Client Sample ID: MW-2A
Date Collected: 05/18/21 07:57
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 14:41	CJM	TAL EDI

Client Sample ID: TB (051821)
Date Collected: 05/18/21 00:00
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 09:24	CJM	TAL EDI

Client Sample ID: FB (051821)
Date Collected: 05/18/21 08:30
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 09:49	CJM	TAL EDI

Client Sample ID: MW-9
Date Collected: 05/18/21 09:37
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 10:13	CJM	TAL EDI

Client Sample ID: BD (051821)
Date Collected: 05/18/21 00:00
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 15:05	CJM	TAL EDI

Client Sample ID: RW-8
Date Collected: 05/18/21 12:37
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 15:30	CJM	TAL EDI

Client Sample ID: RW-7
Date Collected: 05/18/21 14:11
Date Received: 05/19/21 09:45

Lab Sample ID: 460-234720-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779090	05/20/21 15:55	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 460-234720-1
Project/Site: Maestri - Geddes, NY

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-234720-1	MW-2A	Water	05/18/21 07:57	05/19/21 09:45	
460-234720-2	TB (051821)	Water	05/18/21 00:00	05/19/21 09:45	
460-234720-3	FB (051821)	Water	05/18/21 08:30	05/19/21 09:45	
460-234720-4	MW-9	Water	05/18/21 09:37	05/19/21 09:45	
460-234720-5	BD (051821)	Water	05/18/21 00:00	05/19/21 09:45	
460-234720-6	RW-8	Water	05/18/21 12:37	05/19/21 09:45	
460-234720-7	RW-7	Water	05/18/21 14:11	05/19/21 09:45	

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☑ RCRA ☐ Other

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	1 of 1 COCs
Address: 110 W. Fayette St.			Sampler: Jason Gotkowski
City/State/Zip: Syracuse, NY	☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 weeks		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 week		
Site: Geddes, NY 13209	☐ 2 days		Job / SDG No.: 234720
P O # 30077261	☐ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
MW-2A	5/18/21	0757	G	W	3	X						1
TB (051821)	5/18/21	—	1	1	2	X						2
FB (051821)	5/18/21	0830			3	X						3
MW-9	5/18/21	0937			3	X						4
MS MW-9	5/18/21	0937			3	X						4
MSD MW-9	5/18/21	0937			3	X						4
BD (051821)	5/18/21	—			3	X						5
RW-8	5/18/21	1237			3	X						6
RW-7	5/18/21	1411	↓	↓	3	X						7
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1/2						

5-18-21

Syracuse
#225

460-234720 Chain of Custody

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Non-Hazard ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Disposal by Lab

Special Instructions/QC Requirements & Comments:

4.6°C 14.1°C

Custody Seals Intact: Yes	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID

Relinquished by:	Company:	Date/Time:	Received by:	Date/Time:
Dan Motti	Arcadis	5/18/21 1705	FedEx	5/19/21 1705
Relinquished by:	Company:	Date/Time:	Received by:	Date/Time:
[illegible]	Arcadis 5-18-21	1900	Adriana via FedEx	5/19/21 945
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:

CS# [illegible]

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/25/2021

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 72720

Number of Coolers: 1 IR Gun#: 9

Cooler Temperatures

	Raw	Corrected		Raw	Corrected		Raw	Corrected
Cooler #1:	4.0 °C	4.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

*** Lot # of Preservative(s):** _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: AA **Date:** 5/19/21

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-234720-1

Login Number: 234720
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1520775
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.	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
If 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.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-234967-1
Client Project/Site: Maestri - Geddes, NY

For:
ARCADIS U.S. Inc
One Lincoln Center
110 West Fayette St, Suite 300
Syracuse, New York 13202

Attn: Lukas Matt

Allison Bennett

Authorized for release by:
5/26/2021 8:24:59 AM

Allison Bennett, Project Manager I
(732)593-2517
Allison.Bennett@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Glossary

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

Job ID: 460-234967-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S. Inc

Project: Maestri - Geddes, NY

Report Number: 460-234967-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 5/20/2021 9:50 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 3.1º C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS BY GC/MS

Samples RW-6 (460-234967-1), PZ-21 (460-234967-2), FB (051921) (460-234967-3), PZ-20 (460-234967-4) and TB (051921) (460-234967-5) were analyzed for Volatile Organic Compounds by GC/MS in accordance with EPA Method 624.1. The samples were analyzed on 05/24/2021.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ARCADIS U.S. Inc
Job ID: 460-234967-1
Project/Site: Maestri - Geddes, NY

Client Sample ID: RW-6 — Lab Sample ID: 460-234967-1

No Detections.

Client Sample ID: PZ-21 — Lab Sample ID: 460-234967-2

No Detections.

Client Sample ID: FB (051921) — Lab Sample ID: 460-234967-3

No Detections.

Client Sample ID: PZ-20 — Lab Sample ID: 460-234967-4

No Detections.

Client Sample ID: TB (051921) — Lab Sample ID: 460-234967-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: RW-6

Lab Sample ID: 460-234967-1
Matrix: Water
Date Collected: 05/19/21 11:12
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/24/21 12:39*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/24/21 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*05/24/21 12:39*	*1*
Toluene-d8 (Surr)	*110*		*60 - 140*		*05/24/21 12:39*	*1*

Client Sample ID: PZ-21

Lab Sample ID: 460-234967-2
Matrix: Water
Date Collected: 05/19/21 12:46
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*60 - 140*		*05/24/21 13:03*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/24/21 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*60 - 140*		*05/24/21 13:03*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*05/24/21 13:03*	*1*

Client Sample ID: FB (051921)

Lab Sample ID: 460-234967-3
Matrix: Water
Date Collected: 05/19/21 13:03
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/24/21 11:25*	*1*
Dibromofluoromethane (Surr)	*120*		*60 - 140*		*05/24/21 11:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*05/24/21 11:25*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*05/24/21 11:25*	*1*

Client Sample ID: PZ-20

Lab Sample ID: 460-234967-4
Matrix: Water
Date Collected: 05/19/21 14:26
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*60 - 140*		*05/24/21 13:27*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/24/21 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*05/24/21 13:27*	*1*
Toluene-d8 (Surr)	*110*		*60 - 140*		*05/24/21 13:27*	*1*

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

Client Sample ID: TB (051921)
Date Collected: 05/19/21 00:00
Date Received: 05/20/21 09:50

Lab Sample ID: 460-234967-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*60 - 140*		*05/24/21 11:50*	*1*
Dibromofluoromethane (Surr)	*125*		*60 - 140*		*05/24/21 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*05/24/21 11:50*	*1*
Toluene-d8 (Surr)	*109*		*60 - 140*		*05/24/21 11:50*	*1*

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(60-140)	(60-140)	(60-140)	(60-140)
460-234967-1	RW-6	111	122	116	110
460-234967-2	PZ-21	108	123	130	111
460-234967-3	FB (051921)	116	120	117	111
460-234967-4	PZ-20	118	122	116	110
460-234967-5	TB (051921)	118	125	117	109
LCS 460-779833/4	Lab Control Sample	112	120	125	112
LCSD 460-779833/5	Lab Control Sample Dup	113	119	117	114
MB 460-779833/9	Method Blank	108	123	116	112

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 460-779833/9
Matrix: Water
Analysis Batch: 779833

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*60 - 140*		*05/24/21 10:10*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/24/21 10:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*05/24/21 10:10*	*1*
Toluene-d8 (Surr)	*112*		*60 - 140*		*05/24/21 10:10*	*1*

Lab Sample ID: LCS 460-779833/4
Matrix: Water
Analysis Batch: 779833

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
m-Xylene & p-Xylene			20.0	18.5		ug/L		93	60 - 140		
o-Xylene			20.0	19.3		ug/L		97	60 - 140		
Xylenes, Total			40.0	37.9		ug/L		95	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*60 - 140*
Dibromofluoromethane (Surr)	*120*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*
Toluene-d8 (Surr)	*112*		*60 - 140*

Lab Sample ID: LCSD 460-779833/5
Matrix: Water
Analysis Batch: 779833

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene			20.0	17.2		ug/L		86	60 - 140	7	50
o-Xylene			20.0	17.7		ug/L		88	60 - 140	9	50
Xylenes, Total			40.0	34.9		ug/L		87	60 - 140	8	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*60 - 140*
Dibromofluoromethane (Surr)	*119*		*60 - 140*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*
Toluene-d8 (Surr)	*114*		*60 - 140*

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

GC/MS VOA

Analysis Batch: 779833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-234967-1	RW-6	Total/NA	Water	624.1	
460-234967-2	PZ-21	Total/NA	Water	624.1	
460-234967-3	FB (051921)	Total/NA	Water	624.1	
460-234967-4	PZ-20	Total/NA	Water	624.1	
460-234967-5	TB (051921)	Total/NA	Water	624.1	
MB 460-779833/9	Method Blank	Total/NA	Water	624.1	
LCS 460-779833/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-779833/5	Lab Control Sample Dup	Total/NA	Water	624.1	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

Client Sample ID: RW-6
Lab Sample ID: 460-234967-1
Date Collected: 05/19/21 11:12
Matrix: Water
Date Received: 05/20/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779833	05/24/21 12:39	CJM	TAL EDI

Client Sample ID: PZ-21
Lab Sample ID: 460-234967-2
Date Collected: 05/19/21 12:46
Matrix: Water
Date Received: 05/20/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779833	05/24/21 13:03	CJM	TAL EDI

Client Sample ID: FB (051921)
Lab Sample ID: 460-234967-3
Date Collected: 05/19/21 13:03
Matrix: Water
Date Received: 05/20/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779833	05/24/21 11:25	CJM	TAL EDI

Client Sample ID: PZ-20
Lab Sample ID: 460-234967-4
Date Collected: 05/19/21 14:26
Matrix: Water
Date Received: 05/20/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779833	05/24/21 13:27	CJM	TAL EDI

Client Sample ID: TB (051921)
Lab Sample ID: 460-234967-5
Date Collected: 05/19/21 00:00
Matrix: Water
Date Received: 05/20/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	779833	05/24/21 11:50	CJM	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Job ID: 460-234967-1
Project/Site: Maestri - Geddes, NY

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Maestri - Geddes, NY

Job ID: 460-234967-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-234967-1	RW-6	Water	05/19/21 11:12	05/20/21 09:50	
460-234967-2	PZ-21	Water	05/19/21 12:46	05/20/21 09:50	
460-234967-3	FB (051921)	Water	05/19/21 13:03	05/20/21 09:50	
460-234967-4	PZ-20	Water	05/19/21 14:26	05/20/21 09:50	
460-234967-5	TB (051921)	Water	05/19/21 00:00	05/20/21 09:50	

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ ΕΠΑ ☑ Οτηερ:

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	1 of ___ COCs
Address: 110 W. Fayette St.			Sampler: Jason Gutkowski
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.: 234967
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)	Sample Specific Notes:
RW-6	5/19/21	1112	G	W	3	X	1
PZ-21	5/19/21	1246	↓	↓	3	X	2
FB(051921)	5/19/21	1303	↓	↓	3	X	3
PZ-20	5/19/21	1426	↓	↓	3	X	4
TB(051921)	5/19/21	—	↓	↓	2	X	5

RG 5-19-21

460-234967 Chain of Custody

Syracuse #225

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 1/2

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Nov-Hαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Δισποσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Ψεσ ☐ Νο	Custody Seal No.:			Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by: Dan Mutts	Company: Arcadis	Date/Time: 5/19/21/1741	Received by: R English ES-Syr	Date/Time: 5-19-21, 1741		
Relinquished by: R English	Company: Syr	Date/Time: 5-19-21, 1900	Received by: Tcanetic via Fedex	Date/Time: 5/20/21 0950		
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:		

CS 15L1257 3.6°C IR 1.8

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Page ____ of ____

Job Number: 234967

Number of Coolers: 1 IR Gun #: 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	3.6 °C	3.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

*** Lot # of Preservative(s):** _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: JA **Date:** 5/20/21

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-234967-1

Login Number: 234967
List Number: 1
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1521257
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.	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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
If 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.	N/A	

Appendix E

Data Validation Reports

SMC Maestri Site

Data Usability Summary Report

Geddes, New York

Volatile Organic Compound (VOC) Analyses

SDGs # 460-234686-1, 460-234720-1 and 460-234967-1

Analyses Performed By:
Eurofins TestAmerica
Edison, New Jersey

Report #41762R
Review Level: Tier III
Project: 30077261.00003

Summary

This Data Usability Summary Report (DUSR) summarizes the review of Sample Delivery Groups (SDGs) #460-234686-1, 460-234720-1 and 460-234967-1 for samples collected in association with the SMC Maestri site located in Geddes, NY. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG Number	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
						VOC	SVOC	PCB	MET	MISC
460234686-1	RW-5	460-234686-1	Water	5/17/2021		X				
	TB (051721)	460-234686-2	Water	5/17/2021		X				
	FB (051721)	460-234686-3	Water	5/17/2021		X				
	RW-3	460-234686-4	Water	5/17/2021		X				
460-234720-1	MW-2A	460-234720-1	Water	5/18/2021		X				
	TB (051821)	460-234720-2	Water	5/18/2021		X				
	FB (051821)	460-234720-3	Water	5/18/2021		X				
	MW-9	460-234720-4	Water	5/18/2021		X				
	BD (051821)	460-234720-5	Water	5/18/2021	MW-9	X				
	RW-8	460-234720-6	Water	5/18/2021		X				
	RW-7	460-234720-7	Water	5/18/2021		X				
460-234967-1	RW-6	460-234967-1	Water	5/19/2021		X				
	PZ-21	460-234967-2	Water	5/19/2021		X				
	FB (051921)	460-234967-3	Water	5/19/2021		X				
	PZ-20	460-234967-4	Water	5/19/2021		X				
	TB (051921)	460-234967-5	Water	5/19/2021		X				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location MW-9 (SDG 460-234720-1).

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:
QA Quality assurance

Organic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) Method 624.1 (Xylene, Total only). Data were reviewed in accordance with the USEPA Region II validation guidelines *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B* (SOP #HW-24, October 2006); the USEPA *National Functional Guidelines for Organic Superfund Methods Data Review* (January 2017); and USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
  - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E The compound was quantitated above the calibration range.
  - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
  - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
  - UB Compound is considered non-detect at the listed value due to associated blank contamination.
  - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
  - R The sample results are rejected.

The "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second

fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Volatile Organic Compound (VOC) Analyses

1. Holding Times

The specified holding times for the following methods are presented in the table below.

Method	Matrix	Holding Time	Preservation
EPA 624.1	Water	14 days from collection to analysis (preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.

Note:
s.u. Standard units

All samples were analyzed within the specified holding time criterion.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 24-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (35%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) within the EPA Method 624 Table 5 limits.

All compounds associated with the initial and continuing calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A MS/MSD was not performed on a sample location associated with SDGs 460-234686-1 or 460-234967-1.

The MS/MSD exhibited acceptable recoveries and RPD in SDG 460-234720-1.

8. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries and RPD within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water.

Results for duplicate samples are summarized in the following table.

Sample ID/ Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
SDG 460-234720-1: MW-9/BD (051821)	Xylene, Total	ND	ND	AC

Notes:
ND Not detected
AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for VOCs

VOCs: EPA 624.1	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks		X		X	
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate (MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike %R		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	

VOCs: EPA 624.1	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation
%R Percent recovery
RPD Relative percent difference
%D Percent difference

Sample Compliance Report

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]				Noncompliance
					VOC	SVOC	PFAS	MISC	
460-234686-1	5/17/2021	EPA 624.1	RW-5	Water	Yes	--	--	--	
	5/17/2021		TB (051721)	Water	Yes	--	--	--	
	5/17/2021		FB (051721)	Water	Yes	--	--	--	
	5/17/2021		RW-3	Water	Yes	--	--	--	
460-234720-1	5/18/2021		MW-2A	Water	Yes	--	--	--	
	5/18/2021		TB (051821)	Water	Yes	--	--	--	
	5/18/2021		FB (051821)	Water	Yes	--	--	--	
	5/18/2021		MW-9	Water	Yes	--	--	--	
	5/18/2021		BD (051821)	Water	Yes	--	--	--	
	5/18/2021		RW-8	Water	Yes	--	--	--	
	5/18/2021		RW-7	Water	Yes	--	--	--	
460-234967-1	5/19/2021		RW-6	Water	Yes	--	--	--	
	5/19/2021		PZ-21	Water	Yes	--	--	--	
	5/19/2021		FB (051921)	Water	Yes	--	--	--	
	5/19/2021		PZ-20	Water	Yes	--	--	--	
	5/19/2021		TB (051921)	Water	Yes	--	--	--	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Lisa Horton

SIGNATURE: 

DATE: June 14, 2021

PEER REVIEW: Joseph C. Houser

DATE: June 14, 2021

Chain of Custody Corrected Sample Analysis Data Sheets

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ΔΡΑ ☑Οτηερ

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	___ of ___ COCs
Address: 110 W. Fayette St.			Sampler:
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.:
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
RW-5	5/17/21	1217	G	W	3	X						
TB (051721)	5/17/21	—			2	X						
FB (051721)	5/17/21	1325			3	X						
RW-3	5/17/21	1524	↓	↓	3	X						
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1/2						

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Νον-Ηαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Δισποσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Υες	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by: Dan Nystedt	Company: Arcadis	Date/Time: 5/17/21	Received by:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Date/Time:	

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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

Client Sample ID: RW-5
Lab Sample ID: 460-234686-1
Date Collected: 05/17/21 12:17
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*112*		*60 - 140*		*05/20/21 10:37*	*1*
Dibromofluoromethane (Surr)	*120*		*60 - 140*		*05/20/21 10:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 10:37*	*1*
Toluene-d8 (Surr)	*113*		*60 - 140*		*05/20/21 10:37*	*1*

Client Sample ID: TB (051721)
Lab Sample ID: 460-234686-3
Date Collected: 05/17/21 00:00
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 13:27*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 13:27*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 13:27*	*1*

Client Sample ID: FB (051721)
Lab Sample ID: 460-234686-4
Date Collected: 05/17/21 13:25
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 13:52*	*1*
Dibromofluoromethane (Surr)	*124*		*60 - 140*		*05/20/21 13:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 13:52*	*1*
Toluene-d8 (Surr)	*112*		*60 - 140*		*05/20/21 13:52*	*1*

Client Sample ID: RW-3
Lab Sample ID: 460-234686-5
Date Collected: 05/17/21 15:24
Matrix: Water
Date Received: 05/18/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 14:17*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/20/21 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*125*		*60 - 140*		*05/20/21 14:17*	*1*
Toluene-d8 (Surr)	*112*		*60 - 140*		*05/20/21 14:17*	*1*

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Chain of Custody Record

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Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ Para ☑ Οτηερ

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	__ of __ COCs
Address: 110 W. Fayette St.			Sampler: Jason Gotkowski
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.: 234720
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
MW-2A	5/18/21	0757	G	W	3	X						1
TB (051821)	5/18/21	—	|	|	2	X						2
FB (051821)	5/18/21	0830	|	|	3	X						3
MW-9	5/18/21	0937	|	|	3	X						4
MS MW-9	5/18/21	0937	|	|	3	X						4
MSD MW-9	5/18/21	0937	|	|	3	X						4
BD (051821)	5/18/21	—	|	|	3	X						5
RW-8	5/18/21	1237	|	|	3	X						6
RW-7	5/18/21	1411	↓	↓	3	X							7
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other						1/2							

460-234720 Chain of Custody

Syracuse
#225

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Νον-Ηαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Δισποσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

4.6°C 14.1°C

Custody Seals Intact: Yes	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by: Dan Motta	Company: Arcadis	Date/Time: 5/18/21 1705	Received by: [illegible]		Date/Time: 5/19/21 1705
Relinquished by: [illegible]	Company: Arcadis 5-18-21	Date/Time: 1900	Received by: Address via Fedex		Date/Time: 5/19/21 945
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:		Date/Time:

CS# 152.0775

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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

Client Sample ID: MW-2A
Lab Sample ID: 460-234720-1
Date Collected: 05/18/21 07:57
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 14:41*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 14:41*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 14:41*	*1*

Client Sample ID: TB (051821)
Lab Sample ID: 460-234720-2
Date Collected: 05/18/21 00:00
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*60 - 140*		*05/20/21 09:24*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 09:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 09:24*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 09:24*	*1*

Client Sample ID: FB (051821)
Lab Sample ID: 460-234720-3
Date Collected: 05/18/21 08:30
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*113*		*60 - 140*		*05/20/21 09:49*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 09:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 09:49*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 09:49*	*1*

Client Sample ID: MW-9
Lab Sample ID: 460-234720-4
Date Collected: 05/18/21 09:37
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 10:13*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*		*05/20/21 10:13*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 10:13*	*1*

Client Sample ID: BD (051821)
Lab Sample ID: 460-234720-5

Date Collected: 05/18/21 00:00
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*114*		*60 - 140*		*05/20/21 15:05*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/20/21 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*122*		*60 - 140*		*05/20/21 15:05*	*1*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/20/21 15:05*	*1*

Client Sample ID: RW-8
Lab Sample ID: 460-234720-6

Date Collected: 05/18/21 12:37
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/20/21 15:30*	*1*
Dibromofluoromethane (Surr)	*121*		*60 - 140*		*05/20/21 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*		*05/20/21 15:30*	*1*
Toluene-d8 (Surr)	*115*		*60 - 140*		*05/20/21 15:30*	*1*

Client Sample ID: RW-7
Lab Sample ID: 460-234720-7

Date Collected: 05/18/21 14:11
Matrix: Water
Date Received: 05/19/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/20/21 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/20/21 15:55*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/20/21 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*60 - 140*		*05/20/21 15:55*	*1*
Toluene-d8 (Surr)	*113*		*60 - 140*		*05/20/21 15:55*	*1*

TestAmerica Edison
777 New Durham Road

Edison, NJ 08817 phone
732.549.3900 fax

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ ΔΩ ☐ ΝΠΔΕΣ ☑ ΡΑ ☑ Οτηερ

Client Contact	Project Manager: Victor Finocchiaro	Site Contact: Lukas Matt	COC No:
Company: Arcadis U.S., Inc.	Tel/Fax: 315.671.9156	Lab Contact: Allison Bennett	1 of ___ COCs
Address: 110 W. Fayette St.			Sampler: Jason Gutkowski
City/State/Zip: Syracuse, NY	☐ ☐		For Lab Use Only:
(315) 446-9120 (Phone)	TAT if different from Below:		Walk-in Client:
(FAX)	☑ Standard 2 ωεεκσ		Lab Sampling:
Project Name: SMC Maestri Site	☐ 1 ωεεκ		
Site: Geddes, NY 13209	☐ 2 δαψσ		Job / SDG No.: 234967
P O # 30077261	☐ 1 δαψ		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Volatile Organics - Xylenes (Method 624.1)						Sample Specific Notes:
RW-6	5/19/21	1112	G	W	3	X						1
PZ-21	5/19/21	1246	|	|	3	X						2
FB(051921)	5/19/21	1303	|	|	3	X						3
PZ-20	5/19/21	1426	|	|	3	X						4
TB(051921)	5/19/21	—	↓	↓	2	X						5

Rel 5-19-21

460-234967 Chain of Custody

Syracuse #225

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other — 1/2

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ ☐ ☐ Νον-Ηαζαρδ ☐ ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ ☑ ☐ Δισποσαλ βψ Λαβ

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Ψες	Custody Seal No.:			Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID
Relinquished by: Dan Mutz	Company: Arcadis	Date/Time: 5/19/21 1741	Received by: R English	ES-Syr	Date/Time: 5-19-21, 1741	
Relinquished by: R English	Company: Syr	Date/Time: 5-19-21, 1900	Received by: Fedex via Fedex		Date/Time: 5/20/21 0950	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:		Date/Time:	

CS 152257

3.6°C/R 1°F

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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

Client Sample ID: RW-6
Lab Sample ID: 460-234967-1
Date Collected: 05/19/21 11:12
Matrix: Water
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*111*		*60 - 140*		*05/24/21 12:39*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/24/21 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*05/24/21 12:39*	*1*
Toluene-d8 (Surr)	*110*		*60 - 140*		*05/24/21 12:39*	*1*

Client Sample ID: PZ-21
Lab Sample ID: 460-234967-2
Date Collected: 05/19/21 12:46
Matrix: Water
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*60 - 140*		*05/24/21 13:03*	*1*
Dibromofluoromethane (Surr)	*123*		*60 - 140*		*05/24/21 13:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*130*		*60 - 140*		*05/24/21 13:03*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*05/24/21 13:03*	*1*

Client Sample ID: FB (051921)
Lab Sample ID: 460-234967-3
Date Collected: 05/19/21 13:03
Matrix: Water
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*116*		*60 - 140*		*05/24/21 11:25*	*1*
Dibromofluoromethane (Surr)	*120*		*60 - 140*		*05/24/21 11:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*05/24/21 11:25*	*1*
Toluene-d8 (Surr)	*111*		*60 - 140*		*05/24/21 11:25*	*1*

Client Sample ID: PZ-20
Lab Sample ID: 460-234967-4
Date Collected: 05/19/21 14:26
Matrix: Water
Date Received: 05/20/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*60 - 140*		*05/24/21 13:27*	*1*
Dibromofluoromethane (Surr)	*122*		*60 - 140*		*05/24/21 13:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*		*05/24/21 13:27*	*1*
Toluene-d8 (Surr)	*110*		*60 - 140*		*05/24/21 13:27*	*1*

Client Sample ID: TB (051921)
Date Collected: 05/19/21 00:00
Date Received: 05/20/21 09:50

Lab Sample ID: 460-234967-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.65	ug/L			05/24/21 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*118*		*60 - 140*		*05/24/21 11:50*	*1*
Dibromofluoromethane (Surr)	*125*		*60 - 140*		*05/24/21 11:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*60 - 140*		*05/24/21 11:50*	*1*
Toluene-d8 (Surr)	*109*		*60 - 140*		*05/24/21 11:50*	*1*

Appendix F

Site Inspection Form

ARCADIS
110 West Fayette Street Suite 300
Syracuse
New York, 13202
Phone: 315 446 9120
Fax: 315 449 0017

Date: 5/17/21
Time: 0608

Site Inspection Report

Weather	Temperature
~~Partly Cloudy~~ Sunny	High Low 50

Client	Stauffer Management Company LLC	Project No.	30077261
Location	Maestri Site, 904 State Fair Blvd, Geddes, NY	Inspected By:	Jason Gutkowski

Please note any deficiencies, issues, or actions taken at the bottom of the page or on continuation pages

	Circle one			Comments/Action Required
Site Security				
1. Was gate closed and locked when arriving at site?	(Y)	N	NA	
2. Are there any holes or breaks in the fencing?	Y	(N)	NA	
3. Was the door to the treatment shed locked?	(Y)	N	NA	
4 Is the back gate closed and locked?	(Y)	N	NA	
5. Are there any signs of vandalism or unauthorized entry (odd tire tracks, damage to fence, strange debris [bottles, cans, etc])?	Y	(N)	NA	
5a. If so, explain below and notify SMC and Arcadis immediately				
Wells				
6. Are wells intact?	(Y)	N	NA	
7. Are all wells covered (with lid or cap)? *(except wells noted below)*	(Y)	N	NA	
8. Are all wells locked? *(except wells noted below)*	(Y)	N	NA	
Site Maintenance				
9. Is there any garbage or debris? If so, please remove/discard.	Y	(N)	NA	
10. Is there visible dust?	Y	(N)	NA	
11. Does the grass need to be mowed?	Y	(N)	NA	Mowed Today
12. Do any areas need to be weeded or shrub cleared?	(Y)	N	NA	Between RW-7 & RW-8
13. Are there any bald spots in grassy areas?	Y	(N)	NA	
14 Are the access roads clear?	(Y)	N	NA	
15. Do any areas (site roads or access to wells) need to be plowed?	Y	(N)	NA	
16. Are there any sink holes throughout the site?	Y	(N)	NA	
17. Any odors onsite?	Y	(N)	NA	
18. Are site signs still up and visible?	Y	N	(NA)	
Erosion Control				
19. Is silt fence still intact and upright?	Y	N	(NA)	
19a. If areas need repair or erosion control installed, indicate below and contact Abscope for repairs.				
20. Is there any evidence of runoff? (i.e. water flow paths on ground)	Y	(N)	NA	
21. Is there any standing, ponded, or pools of water?	Y	(N)	NA	
22. Are there any signs of runoff at the northeast corner? *(stone area)*	Y	(N)	NA	
23. Is there currently any surface water runoff?	Y	(N)	NA	
23a. If so, describe where, approximate flow, and appearance of water below.				
Treatment System				
24. Are the breakers for the pumps still in the off position?	Y	N	(NA)	
25. Does effluent totalizer on the wall for still read 2846902?	Y	N	(NA)	
25a. If not, contact Arcadis or SMC immediately and check that effluent valve is closed.				
26. Are all critical valves in the closed position?	Y	N	(NA)	
27. Are there any system status alarms on the computer?	Y	N	(NA)	
27a. If so, describe below how they have been handled. *(this does not include well level alarms)*				
28. Are all flow values on computer "zero"?	Y	N	(NA)	
("Flow to sewer," "Tot flow to sewer," "tot daily flow," and "TGAL" for each well should each be "zero")				
28. Check level of sump. Does sump need to be pumped out?	Y	N	(NA)	
29. List water level for each recovery well as shown on computer: (total depth of well is shown in brackets)				

RW-7 [27.5']	N/A	RW-5 [24.5']	N/A
RW-2 (not online)	N/A	RW-8 [24.5']	N/A
RW-3 [25.3']	N/A	RW-6 [21.8']	N/A

30. Are any recovery wells at close to overtopping? (ref total depth above)	Y	(N)	NA
Upon leaving the site, check the following;			
31. Is the treatment shed locked?	(Y)	N	NA
32. Were the gates closed and locked after leaving site?	(Y)	N	NA

Note:

Signature of Inspector: Jason Gutkowski

Include General Site Observations and Follow-Up Actions on the Reverse

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