



GTE Operations Support Incorporated  
One Verizon Way (VC 33E039)  
Basking Ridge, NJ 07920-1097  
908-559-3691

June 6, 2018

Mr. Christopher Magee  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway, 12th Floor  
Albany, NY 12233-7017

Re: *March 2018 Semi-Annual Groundwater Sampling Event*

Dear Mr. Magee:

Attached are the March 2018 semi-annual groundwater sampling results for the Former Philips Display Components Facility in Seneca Falls, New York. Chlorinated volatile organic compounds, primarily trichloroethene and cis-1,2-dichloroethene, were reported in select groundwater samples at concentrations greater than New York State Department of Environmental Conservation (NYSDEC) Class GA Standards.

The next semi-annual groundwater sampling event is tentatively scheduled for the week of September 24, 2018. Please call me at (908) 559-3691 if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew T. Walsh", with a long horizontal flourish extending to the right.

Matthew T. Walsh  
Manager – Corporate Environmental, Health, Safety, and Compliance

**Attachments**

- A – March 2018 Groundwater Sampling Event Summary
- B – Figures
- C – Tables
- D – Groundwater VOC Concentration Graphs
- E – Data Validation Report

ec:

Mr. Bart Putzig (NYSDEC)

Mr. Eamonn O'Neil (NYSDOH)

Mr. Nidal Azzam (USEPA)

Mr. Ernst Jabouin (USEPA)

Ms. Kelly Kline (Seneca County Industrial Development Agency)

Mr. Stephen Bregande ( Seneca Falls Specialties & Logistics Company, Inc.)

Mr. J. Christopher Woods (Seneca Falls Specialties & Logistics Company, Inc.)

Ms. Anna Kunkel (Environmental Consultant)

Ms. Pam Cox (GTE Operations Support Incorporated)

Mr. Mark Flusche (Arcadis U.S., Inc.)

# ATTACHMENT A

March 2018 Groundwater Sampling Event Summary



## March 2018 Semi-Annual Groundwater Sampling

On March 21, 2018, Arcadis of New York, Inc. measured depths to groundwater in 17 monitoring wells and retrieved passive diffusion bags (PDBs) from 8 monitoring wells where PDBs were deployed on September 26, 2017 (Attachment B Figure 1). Eight groundwater samples, including one duplicate sample, were collected for analysis of volatile organic compounds (VOC) from PDBs retrieved from six shallow monitoring wells (MW-22 through MW-26, and MW-29), one weathered bedrock monitoring well (MW-BR-06), and one bedrock monitoring well (MW-BR-05).

The samples were shipped overnight with a trip blank to Test America Laboratories, Inc., of Buffalo, New York. The samples were analyzed for VOCs using United States Environmental Protection Agency Method 8260C. A table summarizing the analytical results is in Attachment C and graphs of groundwater VOC analytical results are in Attachment D. Data Validation Services, Inc., of North Creek, New York, performed third-party data validation. Sample results are usable as reported (Attachment E).

Table 1 provides depth to water measurements and groundwater elevations (Attachment C). Groundwater potentiometric surface contours for March 2018 (Figure 2) show groundwater flow through the overburden is toward the south and east. Table 2 provides analytical results for the March 2018 groundwater and quality assurance and quality control samples (Attachment C). VOC concentrations in the March 2018 samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Class GA Standards.

- Trichloroethene was reported at concentrations greater than the NYSDEC Class GA Standard of 5 micrograms per liter ( $\mu\text{g/l}$ ) in samples from monitoring wells MW-22 through MW-26 and in the duplicate sample from monitoring well MW-25. The trichloroethene concentration in the sample from monitoring well MW-24 is estimated.
- *cis*-1,2-Dichloroethene was reported at concentrations greater than the NYSDEC Class GA Standard of 5  $\mu\text{g/l}$  in samples from monitoring wells MW-22 through MW-26 and MW-29, and in the duplicate sample from monitoring well MW-25.
- 1,1-Dichloroethane was reported at concentrations greater than the NYSDEC Class GA Standard of 5  $\mu\text{g/l}$  in the sample from monitoring well MW-25 and in the duplicate sample from monitoring well MW-25.
- 1,2-Dichloroethane was reported at estimated concentrations greater than the Class GA Standard of 0.6  $\mu\text{g/l}$  in the samples from monitoring wells MW-23 and MW-24.
- 1, 1-Dichloroethene was reported at an estimated concentration greater than the Class GA Standard of 5  $\mu\text{g/l}$  in the sample from monitoring well MW-24.
- Acetone was reported at concentrations greater than the NYSDEC Class GA Standard of 50  $\mu\text{g/l}$  in samples from monitoring wells MW-22 through MW-24, MW-29, MW-BR-06, and in the duplicate sample from monitoring well MW-25. The acetone concentration in the sample from monitoring well MW-24 is estimated. This is only the third sampling event since site-wide groundwater monitoring began in 1993 in which acetone was reported at concentrations greater than the Class GA standard. Acetone is not a constituent of potential concern and is a common laboratory contaminant.









On March 21, 2018, after groundwater samples were collected, new PDBs were deployed in the fourteen monitoring wells scheduled for groundwater sampling in September 2018. The PDBs were installed in the middle of the well screen, consistent with previous sampling procedures.

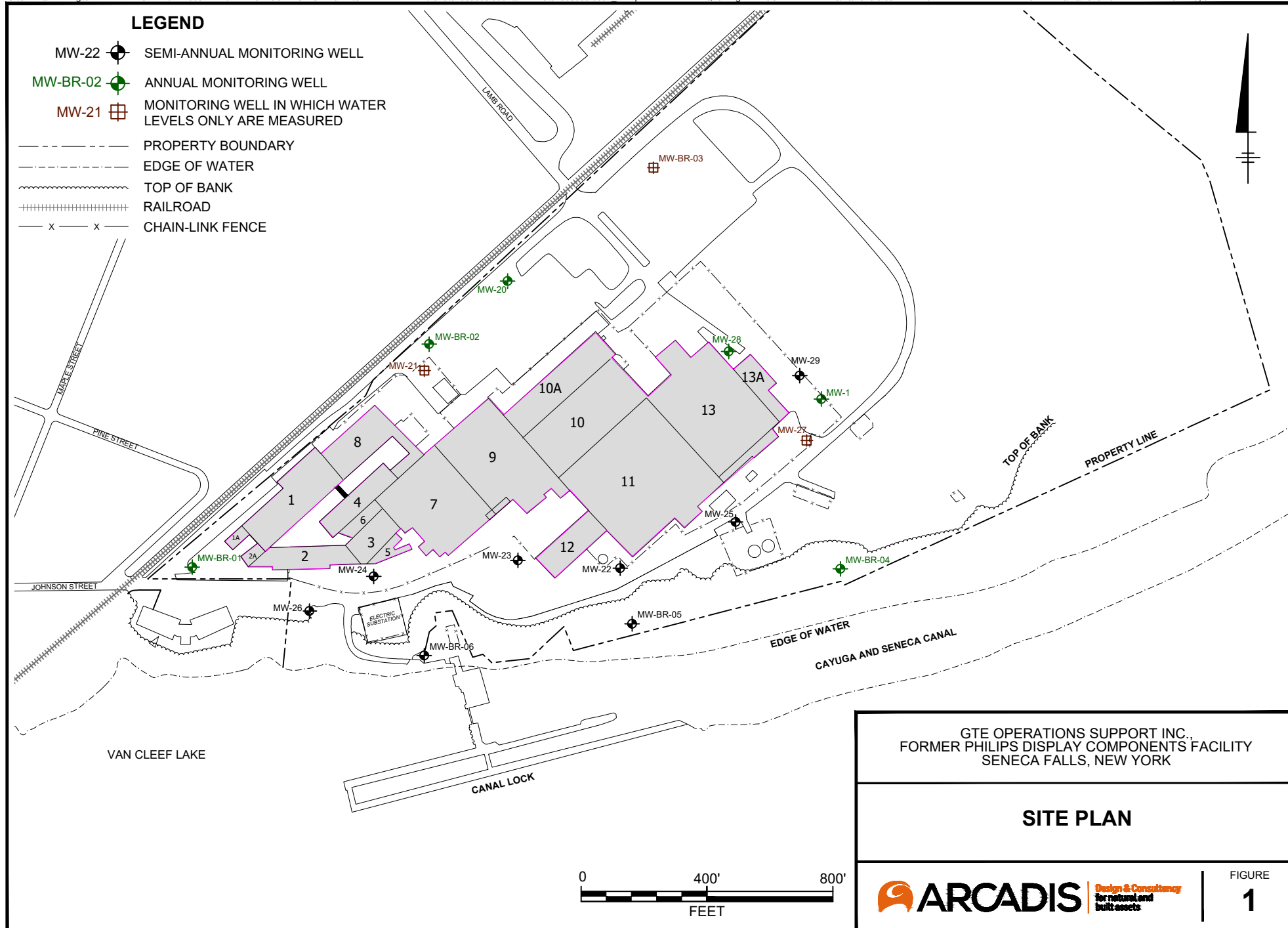
# ATTACHMENT B

Figures



## LEGEND











- MW-22  SEMI-ANNUAL MONITORING WELL
- MW-BR-02  ANNUAL MONITORING WELL
- MW-21  MONITORING WELL IN WHICH WATER LEVELS ONLY ARE MEASURED
-  PROPERTY BOUNDARY
-  EDGE OF WATER
-  TOP OF BANK
-  RAILROAD
-  CHAIN-LINK FENCE

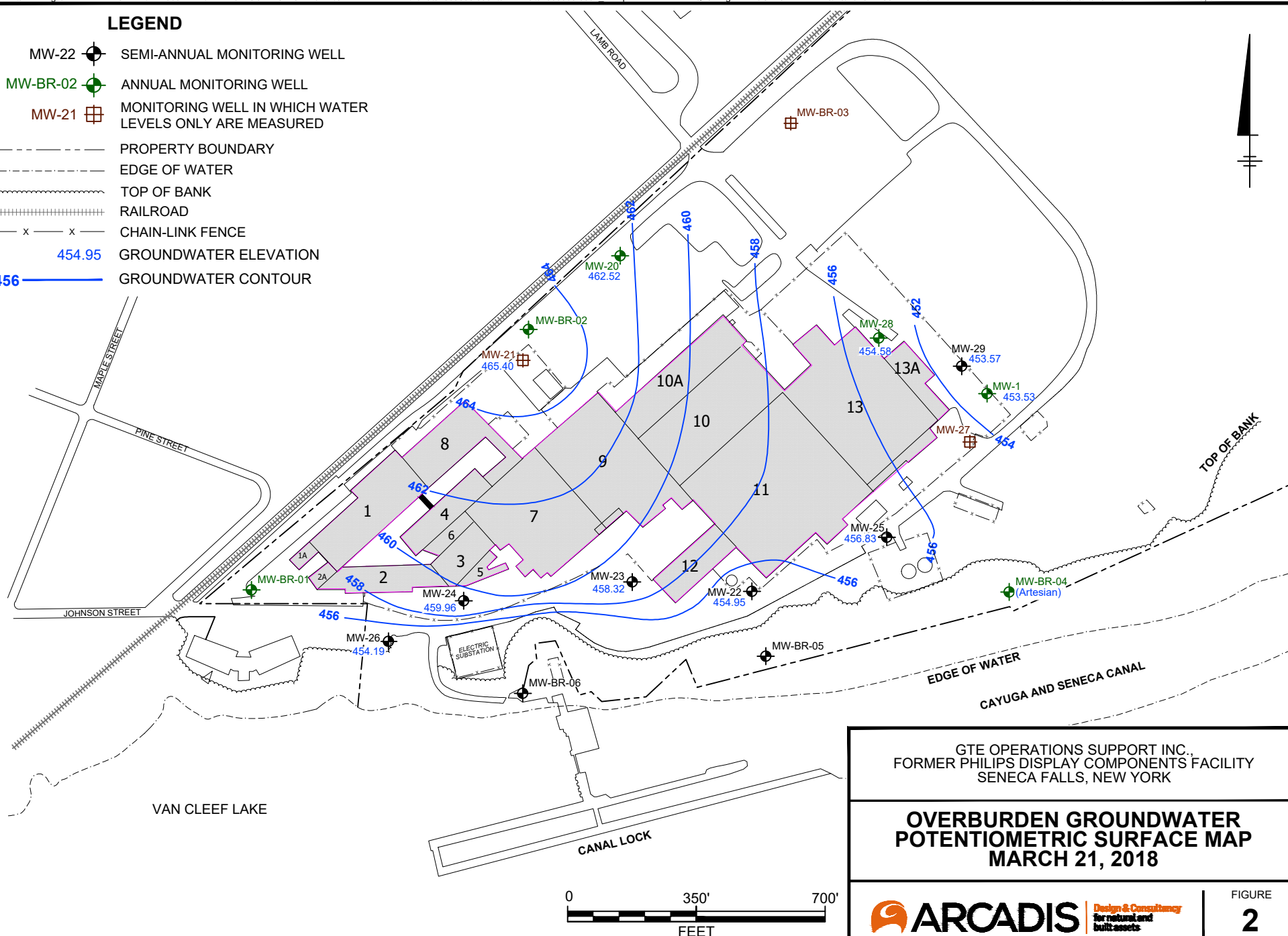


GTE OPERATIONS SUPPORT INC.,  
 FORMER PHILIPS DISPLAY COMPONENTS FACILITY  
 SENECA FALLS, NEW YORK

## SITE PLAN

**LEGEND**

- MW-22  SEMI-ANNUAL MONITORING WELL
- MW-BR-02  ANNUAL MONITORING WELL
- MW-21  MONITORING WELL IN WHICH WATER LEVELS ONLY ARE MEASURED
-  PROPERTY BOUNDARY
-  EDGE OF WATER
-  TOP OF BANK
-  RAILROAD
-  CHAIN-LINK FENCE
- 454.95  GROUNDWATER ELEVATION
- 456  GROUNDWATER CONTOUR



GTE OPERATIONS SUPPORT INC.  
FORMER PHILIPS DISPLAY COMPONENTS FACILITY  
SENECA FALLS, NEW YORK

**OVERBURDEN GROUNDWATER  
POTENTIOMETRIC SURFACE MAP  
MARCH 21, 2018**

# ATTACHMENT C

Tables





Table 1  
Depth to Water Measurements  
Former Philips Display Components Facility  
Seneca Falls, New York

Well Number	Datum Elevation	Depth to Water (feet)	Water Level Elevation (feet AMSL)
MW-1	460.83	7.30	453.53
MW-20	463.42	0.90	462.52
MW-21	467.39	1.99	465.40
MW-22	460.77	5.82	454.95
MW-23	460.59	2.27	458.32
MW-24	462.76	2.80	459.96
MW-25	460.74	3.91	456.83
MW-26	458.80	4.61	454.19
MW-27	460.45	6.36	454.09
MW-28	461.26	6.68	454.58
MW-29	459.89	6.32	453.57
MW-BR-01	462.64	33.92	428.72
MW-BR-02	467.87	29.02	438.85
MW-BR-03	457.06	12.08	444.98
MW-BR-04	396.39	--	Artesian
MW-BR-05	401.34	21.51	379.83
MW-BR-06	436.30	35.91	400.39

Notes:

AMSL - Above mean sea level

-- - Not Measured

Depth to water measurements were recorded March 21, 2018.

Table 2  
Groundwater Analytical Results (March 2018)  
Former Philips Display Components Facility  
Seneca Falls, New York

VOCs	CAS #	NYS Class GA Standard	MW-22	MW-23	MW-24	MW-25	MW-25 Dup	MW-26	MW-29	MW-BR-05	MW-BR-06	TRIP BLANK
1,1,1-Trichloroethane	71-55-6	5	5 U	10 U	200 U	1.3 J	1.3 J	20 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	1	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	75-34-3	5	5 U	10 U	200 U	12	12	20 U	0.53 J	5 U	5 U	5 U
1,1-Dichloroethene	75-35-4	5	5 U	0.66 J	21 J	1.4 J	1.6 J	20 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	107-06-2	0.6	5 U	1.3 J	53 J	5 U	5 U	20 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	78-87-5	1	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
2-Hexanone	591-78-6	50	10 U	20 U	400 U	10 U	10 U	40 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	50	55	170	270 J	89	89	140	98	7.8 J	120	10 U
Benzene	71-43-2	1	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Bromodichloromethane	75-27-4	50	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Bromoform	75-25-2	50	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Bromomethane	74-83-9	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Carbon Disulfide	75-15-0	60	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	56-23-5	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Chlorobenzene	108-90-7	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Chloroethane	75-00-3	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Chloroform	67-66-3	7	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Chloromethane	74-87-3	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	11	230	18000	170	180	52	130	5 U	4.8 J	5 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Dibromochloromethane	124-48-1	50	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	75-71-8	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Ethylbenzene	100-41-4	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
2-Butanone (MEK)	78-93-3	50	7.7 J	20 U	400 U	10 U	7.4 J	40 U	10 U	10 U	9 J	10 U
4-Methyl-2-Pentanone (MIBK)	108-10-1	5	10 U	20 U	400 U	10 U	10 U	40 U	10 U	10 U	10 U	10 U
Methylene Chloride	75-09-2	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Styrene	100-42-5	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Tetrachloroethene	127-18-4	5	5 U	10 U	200 U	0.39 J	0.5 J	20 U	5 U	5 U	5 U	5 U
Toluene	108-88-3	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	156-60-5	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	5	8.5	930	170 J	7.5	7.6	38	0.53 J	5 U	3.4 J	5 U
Trichlorofluoromethane	75-69-4	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2	5 U	10 U	200 U	5 U	5 U	20 U	1.2 J	5 U	5 U	5 U
Total Xylenes	1330-20-7	5	5 U	10 U	200 U	5 U	5 U	20 U	5 U	5 U	5 U	5 U

NOTES:  
Bolded results were greater than the NYSDEC Class GA Standards  
All values are shown in units of micrograms per liter (ug/L).

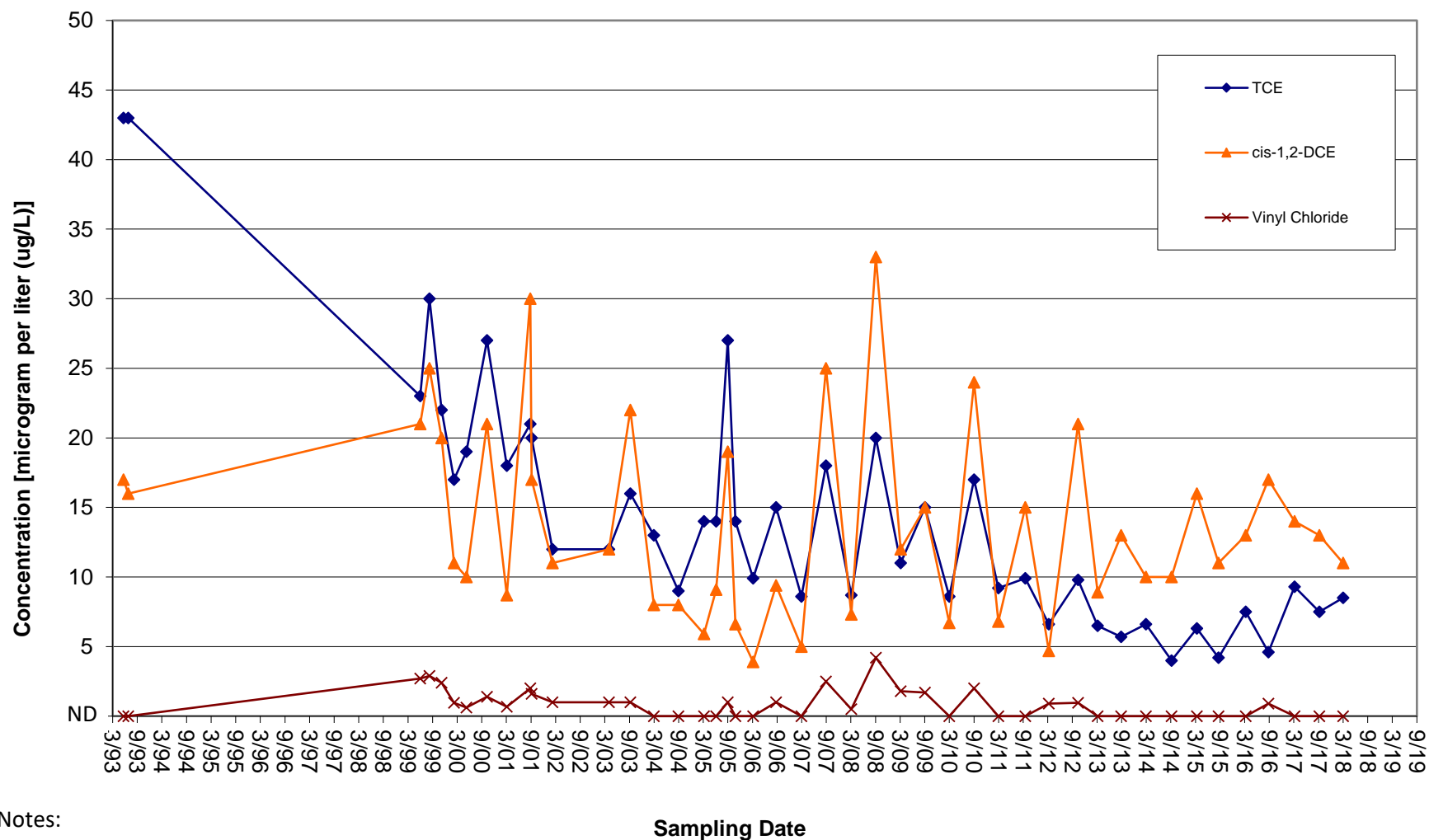
U - Not detected. Reporting limit shown.  
J - Estimated

# ATTACHMENT D

## Groundwater VOC Concentration Graphs



# MW-22



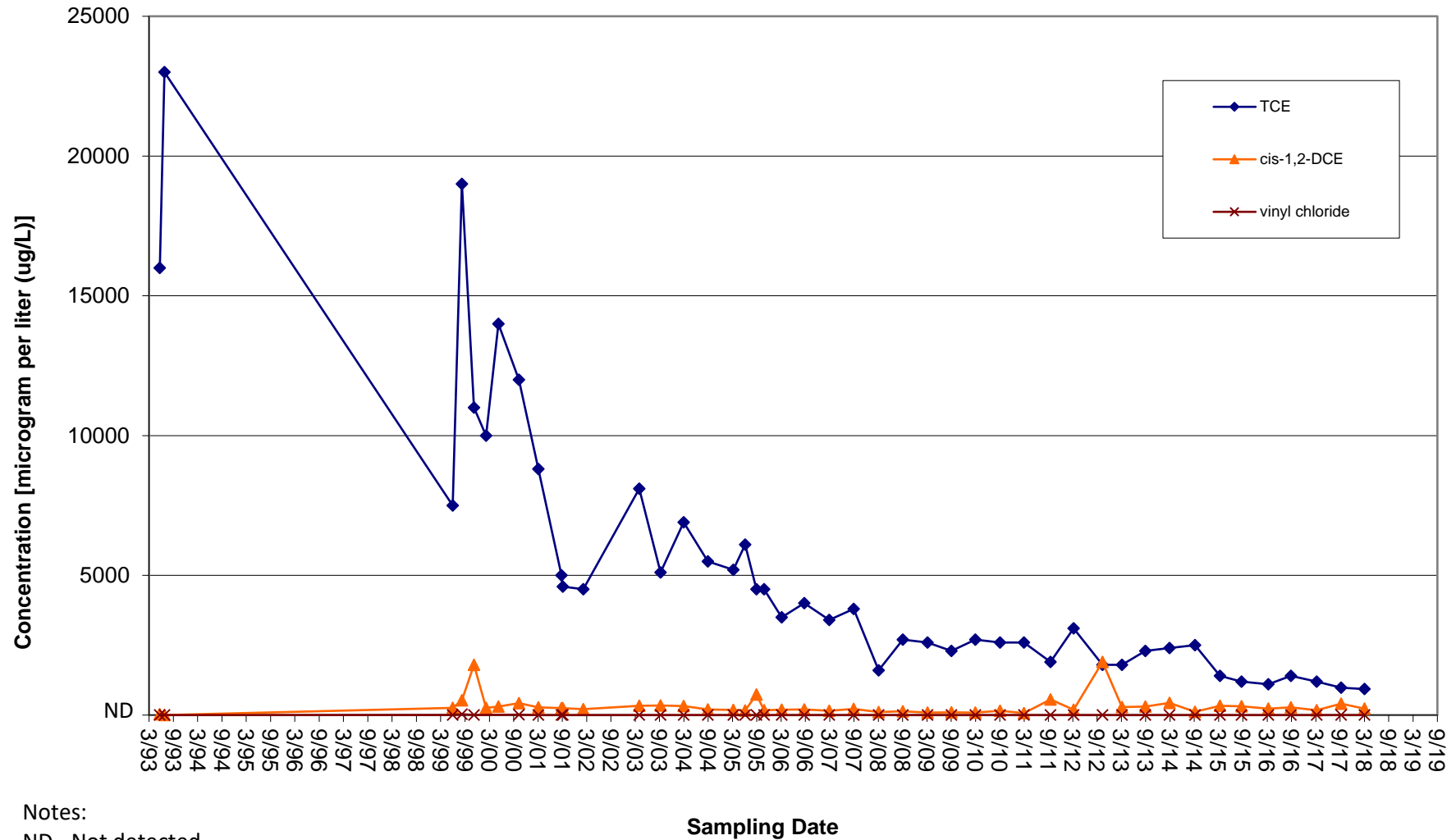
Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

# MW-23



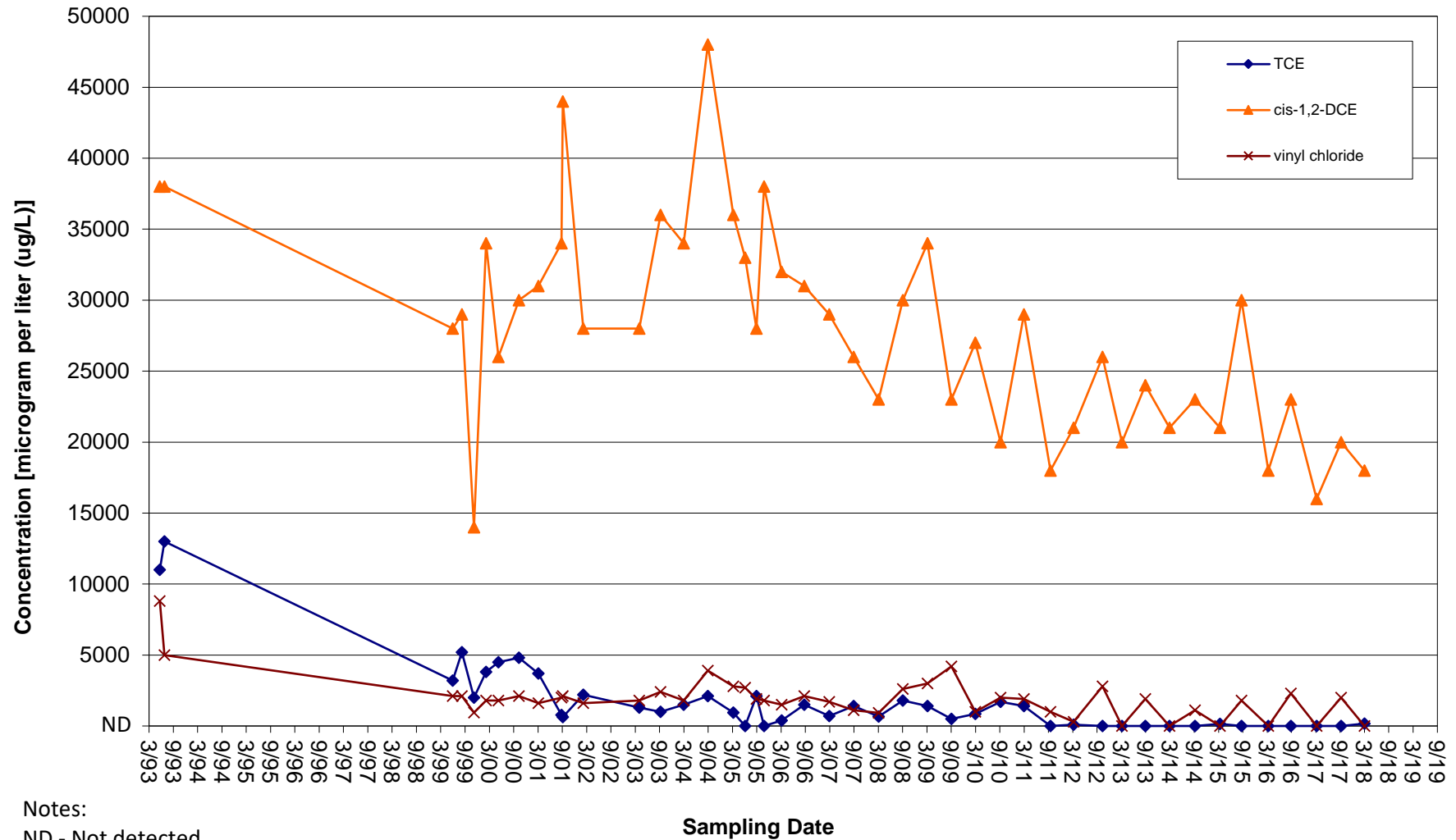
## Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

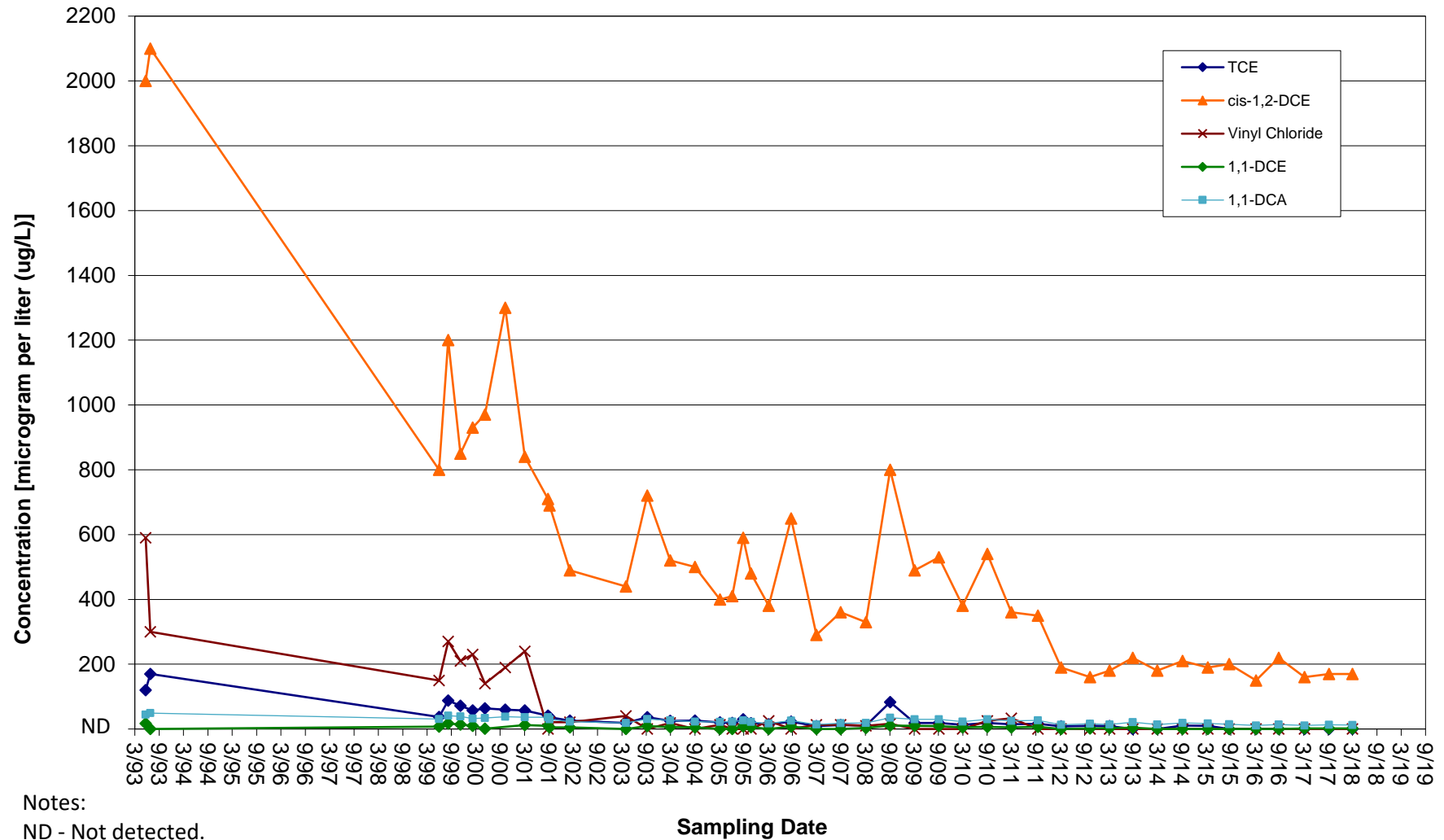
Results less than the reporting limit are estimated.

# MW-24



Notes:  
 ND - Not detected.  
 Reporting limit is 5 ug/L.  
 Results less than the reporting limit are estimated.

# MW-25



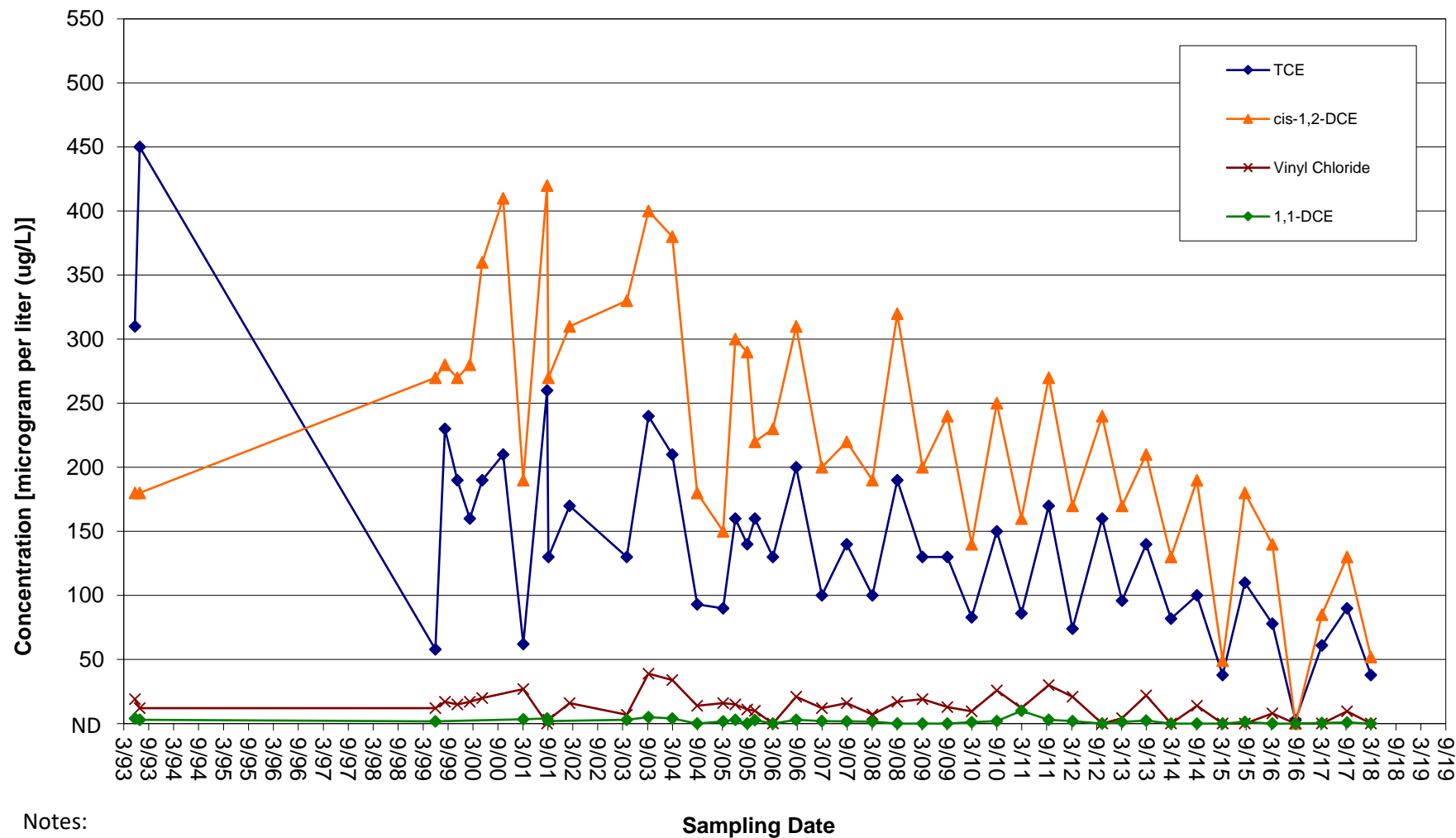
Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

# MW-26



Notes:

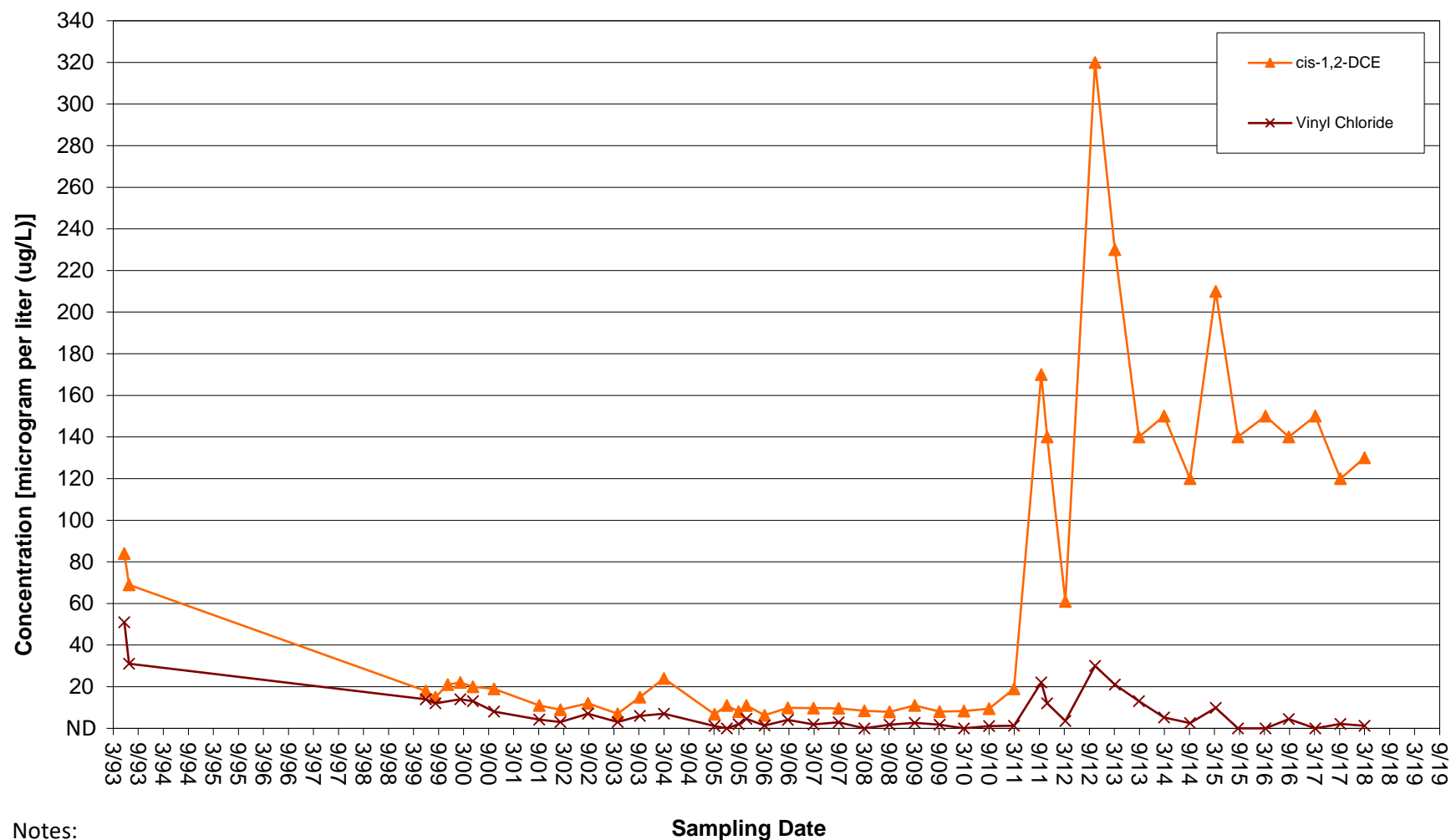
ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.



# MW-29



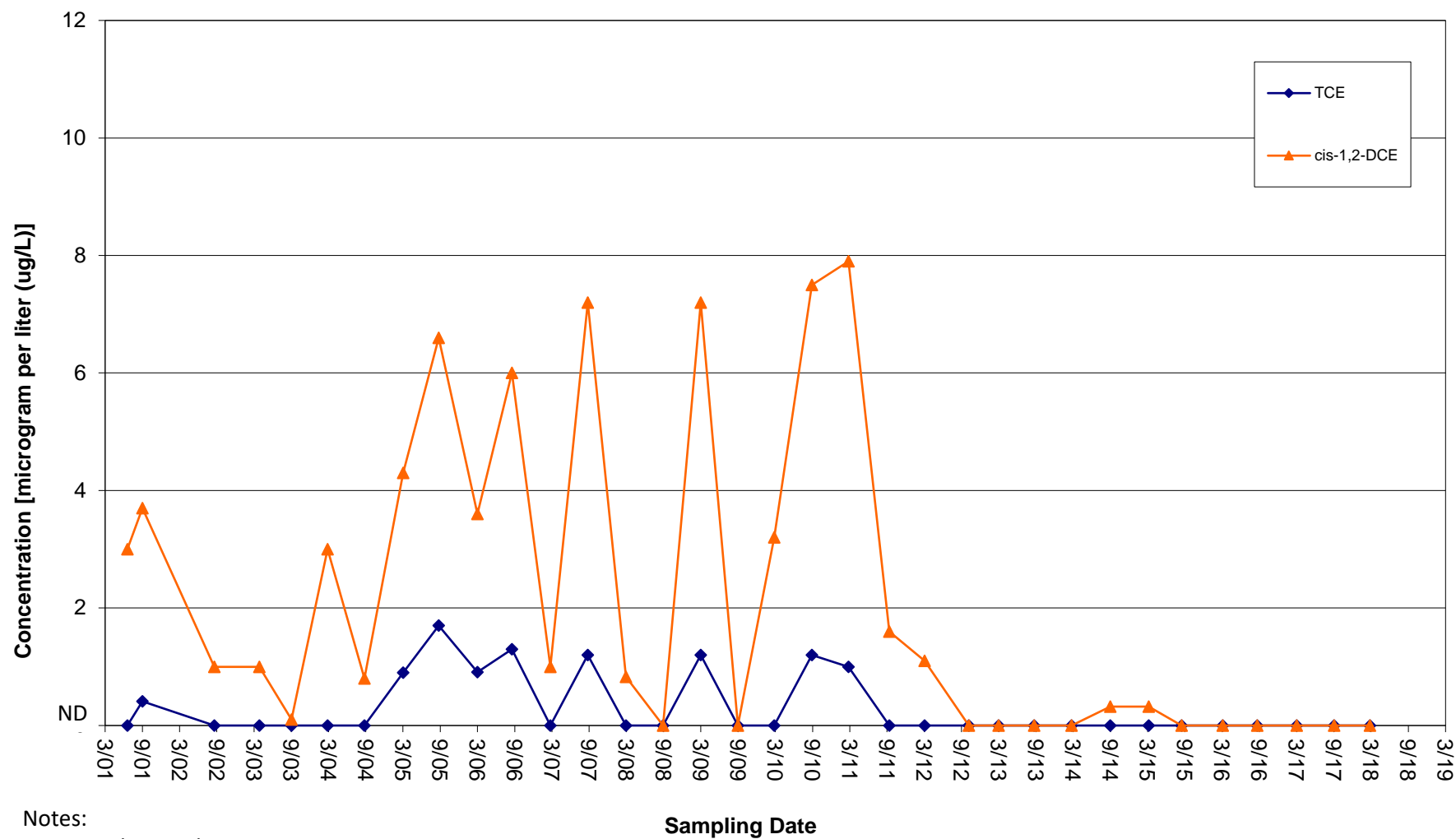
Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

# MW-BR-05



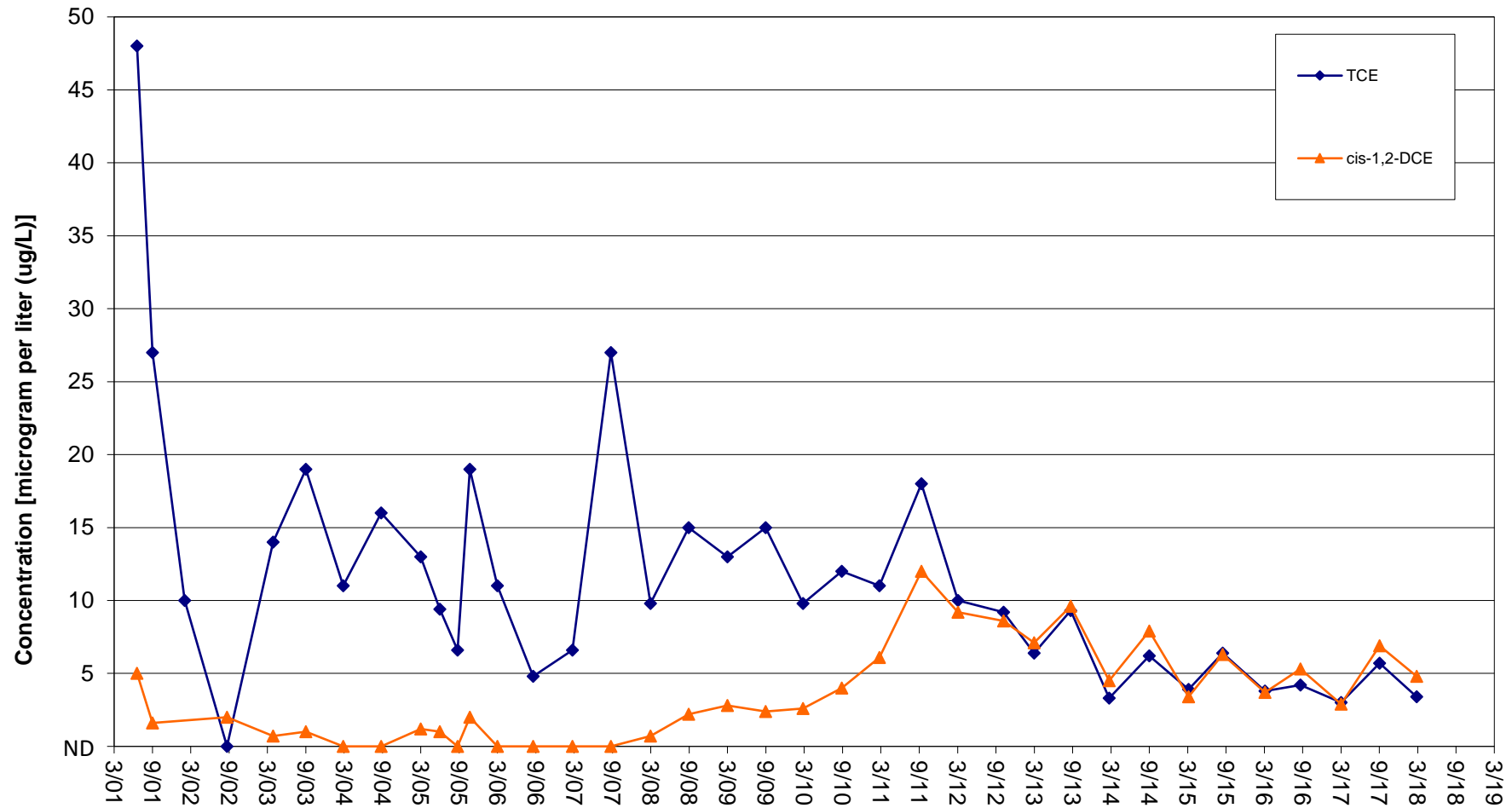
Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

# MW-BR-06



## Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

# ATTACHMENT E

## Data Validation Report



# Data Validation Services

120 Cobble Creek Road P.O. Box 208

North Creek, NY 12853

Phone 518-251-4429

harry@frontiernet.net

April 7, 2018

Mark Flusche  
ARCADIS US, Inc.  
855 Route 146 Suite 210  
Clifton Park, NY 12065

RE: Validation of the Former Philips Display Components Facility--Seneca Falls Site Data  
Package-Groundwater  
TAL=Buffalo SDG No. 480-124835-1

Dear Mr. Flusche:

Review has been completed for the data package generated by TestAmerica Laboratories that pertains to samples collected 03/21/18 at Seneca Falls, NY. Eight aqueous samples, a field duplicate, and a trip blank were analyzed for volatiles by USEPA SW846 method 8260C.

Data validation was performed with guidance from the USEPA Region II validation SOP HW-6, the USEPA CLP National Functional Guidelines for Organic Data Review, and the specific requirements of the analytical methodologies. The data packages were reviewed for the following items:

- \* Data Completeness
- \* Case Narrative
- \* Custody Documentation
- \* Holding Times
- \* Surrogate Standard Recoveries
- \* Matrix Spike Evaluations
- \* Blind Field Duplicate Correlations
- \* Blank Contamination
- \* Laboratory Control Samples (LCSs)
- \* Calibration Standard Responses
- \* Internal Standard Responses
- \* Method Compliance
- \* Sample Results Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of validated sample analytes are substantiated by the raw data, and generated in compliance with project requirements.

**In summary**, samples were processed in compliance with stated protocols. Sample results are usable as reported.

Copies of the sample identifications and laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also included are laboratory results forms.

**VOA Analyses by EPA 8260C**

Results for analytes initially reported with the "E" flag are derived from the dilution analyses of the samples, thus reflecting responses within the linear range of the instrument.

Matrix spikes (MSs) of MW-24 show recoveries and correlations for the eleven evaluated analytes that are within validation guidelines. The blind field duplicate correlations of MW-25 are acceptable.

Surrogate and internal standard responses are within required range, and holding times were met. Blanks show no contamination. LCS recoveries show compliant recoveries.

Calibration standards show acceptable responses.

Some of the samples were processed only at initial dilution due to high concentrations of target analytes. Reporting limits for undetected analytes in those samples are therefore proportionally elevated.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

  
Judy Harry

## **CLIENT and LABORATORY SAMPLE IDs**

## Sample Summary

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-132964-1	MW-22	Water	03/21/18 11:30	03/22/18 01:00
480-132964-2	MW-23	Water	03/21/18 08:05	03/22/18 01:00
480-132964-3	MW-24	Water	03/21/18 08:20	03/22/18 01:00
480-132964-4	MW-25	Water	03/21/18 11:10	03/22/18 01:00
480-132964-5	MW-26	Water	03/21/18 08:45	03/22/18 01:00
480-132964-6	MW-29	Water	03/21/18 10:35	03/22/18 01:00
480-132964-7	MW-BR-05	Water	03/21/18 13:30	03/22/18 01:00
480-132964-8	MW-BR-06	Water	03/21/18 09:20	03/22/18 01:00
480-132964-9	DUP-032118	Water	03/21/18 00:00	03/22/18 01:00
480-132964-10	TRIP BLANK	Water	03/21/18 00:00	03/22/18 01:00



## **SAMPLE RESULTS FORMS**

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-22

Lab Sample ID: 480-132964-1

Date Collected: 03/21/18 11:30

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L			03/22/18 15:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 15:20	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 15:20	1
1,1-Dichloroethane	ND		5.0	0.38	ug/L			03/22/18 15:20	1
1,1-Dichloroethene	ND		5.0	0.29	ug/L			03/22/18 15:20	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 15:20	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 15:20	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 15:20	1
Acetone	55		10	3.0	ug/L			03/22/18 15:20	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 15:20	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 15:20	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 15:20	1
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 15:20	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 15:20	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 15:20	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 15:20	1
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 15:20	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 15:20	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 15:20	1
cis-1,2-Dichloroethene	11		5.0	0.81	ug/L			03/22/18 15:20	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 15:20	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 15:20	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 15:20	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 15:20	1
Methyl ethyl ketone (MEK)	7.7	J	10	1.3	ug/L			03/22/18 15:20	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 15:20	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 15:20	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 15:20	1
Tetrachloroethene	ND		5.0	0.36	ug/L			03/22/18 15:20	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 15:20	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 15:20	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 15:20	1
Trichloroethene	8.5		5.0	0.46	ug/L			03/22/18 15:20	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 15:20	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 15:20	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/22/18 15:20	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					03/22/18 15:20	1
4-Bromofluorobenzene (Surr)	99		73 - 120					03/22/18 15:20	1
Toluene-d8 (Surr)	97		80 - 120					03/22/18 15:20	1
Dibromofluoromethane (Surr)	98		75 - 123					03/22/18 15:20	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-23

Lab Sample ID: 480-132964-2

Date Collected: 03/21/18 08:05

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	1.6	ug/L			03/22/18 17:40	2
1,1,2,2-Tetrachloroethane	ND		10	0.42	ug/L			03/22/18 17:40	2
1,1,2-Trichloroethane	ND		10	0.46	ug/L			03/22/18 17:40	2
1,1-Dichloroethane	ND		10	0.76	ug/L			03/22/18 17:40	2
1,1-Dichloroethene	0.66	J	10	0.58	ug/L			03/22/18 17:40	2
1,2-Dichloroethane	1.3	J	10	0.42	ug/L			03/22/18 17:40	2
1,2-Dichloropropane	ND		10	1.4	ug/L			03/22/18 17:40	2
2-Hexanone	ND		20	2.5	ug/L			03/22/18 17:40	2
Acetone	170		20	6.0	ug/L			03/22/18 17:40	2
Benzene	ND		10	0.82	ug/L			03/22/18 17:40	2
Bromodichloromethane	ND		10	0.78	ug/L			03/22/18 17:40	2
Bromoform	ND		10	0.52	ug/L			03/22/18 17:40	2
Bromomethane	ND		10	1.4	ug/L			03/22/18 17:40	2
Carbon disulfide	ND		10	0.38	ug/L			03/22/18 17:40	2
Carbon tetrachloride	ND		10	0.54	ug/L			03/22/18 17:40	2
Chlorobenzene	ND		10	1.5	ug/L			03/22/18 17:40	2
Chloroethane	ND		10	0.64	ug/L			03/22/18 17:40	2
Chloroform	ND		10	0.68	ug/L			03/22/18 17:40	2
Chloromethane	ND		10	0.70	ug/L			03/22/18 17:40	2
cis-1,2-Dichloroethene	<del>220</del>	E 230	10	1.6	ug/L			03/22/18 17:40	2
cis-1,3-Dichloropropene	ND		10	0.72	ug/L			03/22/18 17:40	2
Dibromochloromethane	ND		10	0.64	ug/L			03/22/18 17:40	2
Dichlorodifluoromethane	ND		10	1.4	ug/L			03/22/18 17:40	2
Ethylbenzene	ND		10	1.5	ug/L			03/22/18 17:40	2
Methyl ethyl ketone (MEK)	ND		20	2.6	ug/L			03/22/18 17:40	2
Methyl isobutyl ketone (MIBK)	ND		20	4.2	ug/L			03/22/18 17:40	2
Methylene Chloride	ND		10	0.88	ug/L			03/22/18 17:40	2
Styrene	ND		10	1.5	ug/L			03/22/18 17:40	2
Tetrachloroethene	ND		10	0.72	ug/L			03/22/18 17:40	2
Toluene	ND		10	1.0	ug/L			03/22/18 17:40	2
trans-1,2-Dichloroethene	ND		10	1.8	ug/L			03/22/18 17:40	2
trans-1,3-Dichloropropene	ND		10	0.74	ug/L			03/22/18 17:40	2
Trichloroethene	<del>860</del>	E 930	10	0.92	ug/L			03/22/18 17:40	2
Trichlorofluoromethane	ND		10	1.8	ug/L			03/22/18 17:40	2
Vinyl acetate	ND		10	1.7	ug/L			03/22/18 17:40	2
Vinyl chloride	ND		10	1.8	ug/L			03/22/18 17:40	2
Xylenes, Total	ND		10	1.3	ug/L			03/22/18 17:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/22/18 17:40	2
4-Bromofluorobenzene (Surr)	100		73 - 120		03/22/18 17:40	2
Toluene-d8 (Surr)	97		80 - 120		03/22/18 17:40	2
Dibromofluoromethane (Surr)	99		75 - 123		03/22/18 17:40	2

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	16	ug/L			03/22/18 13:47	20
1,1,2,2-Tetrachloroethane	ND		100	4.2	ug/L			03/22/18 13:47	20
1,1,2-Trichloroethane	ND		100	4.6	ug/L			03/22/18 13:47	20
1,1-Dichloroethane	ND		100	7.6	ug/L			03/22/18 13:47	20

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-23

Date Collected: 03/21/18 08:05

Date Received: 03/22/18 01:00

Lab Sample ID: 480-132964-2

Matrix: Water

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		100	5.8	ug/L			03/22/18 13:47	20
1,2-Dichloroethane	ND		100	4.2	ug/L			03/22/18 13:47	20
1,2-Dichloropropane	ND		100	14	ug/L			03/22/18 13:47	20
2-Hexanone	ND		200	25	ug/L			03/22/18 13:47	20
Acetone	170	J	200	60	ug/L			03/22/18 13:47	20
Benzene	ND		100	8.2	ug/L			03/22/18 13:47	20
Bromodichloromethane	ND		100	7.8	ug/L			03/22/18 13:47	20
Bromoform	ND		100	5.2	ug/L			03/22/18 13:47	20
Bromomethane	ND		100	14	ug/L			03/22/18 13:47	20
Carbon disulfide	ND		100	3.8	ug/L			03/22/18 13:47	20
Carbon tetrachloride	ND		100	5.4	ug/L			03/22/18 13:47	20
Chlorobenzene	ND		100	15	ug/L			03/22/18 13:47	20
Chloroethane	ND		100	6.4	ug/L			03/22/18 13:47	20
Chloroform	ND		100	6.8	ug/L			03/22/18 13:47	20
Chloromethane	ND		100	7.0	ug/L			03/22/18 13:47	20
cis-1,2-Dichloroethene	230		100	16	ug/L			03/22/18 13:47	20
cis-1,3-Dichloropropene	ND		100	7.2	ug/L			03/22/18 13:47	20
Dibromochloromethane	ND		100	6.4	ug/L			03/22/18 13:47	20
Dichlorodifluoromethane	ND		100	14	ug/L			03/22/18 13:47	20
Ethylbenzene	ND		100	15	ug/L			03/22/18 13:47	20
Methyl ethyl ketone (MEK)	ND		200	26	ug/L			03/22/18 13:47	20
Methyl isobutyl ketone (MIBK)	ND		200	42	ug/L			03/22/18 13:47	20
Methylene Chloride	ND		100	8.8	ug/L			03/22/18 13:47	20
Styrene	ND		100	15	ug/L			03/22/18 13:47	20
Tetrachloroethene	ND		100	7.2	ug/L			03/22/18 13:47	20
Toluene	ND		100	10	ug/L			03/22/18 13:47	20
trans-1,2-Dichloroethene	ND		100	18	ug/L			03/22/18 13:47	20
trans-1,3-Dichloropropene	ND		100	7.4	ug/L			03/22/18 13:47	20
Trichloroethene	930		100	9.2	ug/L			03/22/18 13:47	20
Trichlorofluoromethane	ND		100	18	ug/L			03/22/18 13:47	20
Vinyl acetate	ND		100	17	ug/L			03/22/18 13:47	20
Vinyl chloride	ND		100	18	ug/L			03/22/18 13:47	20
Xylenes, Total	ND		100	13	ug/L			03/22/18 13:47	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/22/18 13:47	20
4-Bromofluorobenzene (Surr)	103		73 - 120		03/22/18 13:47	20
Toluene-d8 (Surr)	100		80 - 120		03/22/18 13:47	20
Dibromofluoromethane (Surr)	101		75 - 123		03/22/18 13:47	20

Client Sample ID: MW-24

Date Collected: 03/21/18 08:20

Date Received: 03/22/18 01:00

Lab Sample ID: 480-132964-3

Matrix: Water

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	33	ug/L			03/22/18 18:03	40
1,1,2,2-Tetrachloroethane	ND		200	8.4	ug/L			03/22/18 18:03	40
1,1,2-Trichloroethane	ND		200	9.2	ug/L			03/22/18 18:03	40
1,1-Dichloroethane	ND		200	15	ug/L			03/22/18 18:03	40

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-24

Lab Sample ID: 480-132964-3

Date Collected: 03/21/18 08:20

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	21	J	200	12	ug/L			03/22/18 18:03	40
1,2-Dichloroethane	53	J	200	8.4	ug/L			03/22/18 18:03	40
1,2-Dichloropropane	ND		200	29	ug/L			03/22/18 18:03	40
2-Hexanone	ND		400	50	ug/L			03/22/18 18:03	40
Acetone	270	J	400	120	ug/L			03/22/18 18:03	40
Benzene	ND		200	16	ug/L			03/22/18 18:03	40
Bromodichloromethane	ND		200	16	ug/L			03/22/18 18:03	40
Bromoform	ND		200	10	ug/L			03/22/18 18:03	40
Bromomethane	ND		200	28	ug/L			03/22/18 18:03	40
Carbon disulfide	ND		200	7.6	ug/L			03/22/18 18:03	40
Carbon tetrachloride	ND		200	11	ug/L			03/22/18 18:03	40
Chlorobenzene	ND		200	30	ug/L			03/22/18 18:03	40
Chloroethane	ND		200	13	ug/L			03/22/18 18:03	40
Chloroform	ND		200	14	ug/L			03/22/18 18:03	40
Chloromethane	ND		200	14	ug/L			03/22/18 18:03	40
cis-1,2-Dichloroethene	<del>19000</del>	E- 18000	200	32	ug/L			03/22/18 18:03	40
cis-1,3-Dichloropropene	ND		200	14	ug/L			03/22/18 18:03	40
Dibromochloromethane	ND		200	13	ug/L			03/22/18 18:03	40
Dichlorodifluoromethane	ND		200	27	ug/L			03/22/18 18:03	40
Ethylbenzene	ND		200	30	ug/L			03/22/18 18:03	40
Methyl ethyl ketone (MEK)	ND		400	53	ug/L			03/22/18 18:03	40
Methyl isobutyl ketone (MIBK)	ND		400	84	ug/L			03/22/18 18:03	40
Methylene Chloride	ND		200	18	ug/L			03/22/18 18:03	40
Styrene	ND		200	29	ug/L			03/22/18 18:03	40
Tetrachloroethene	ND		200	14	ug/L			03/22/18 18:03	40
Toluene	ND		200	20	ug/L			03/22/18 18:03	40
trans-1,2-Dichloroethene	ND		200	36	ug/L			03/22/18 18:03	40
trans-1,3-Dichloropropene	ND		200	15	ug/L			03/22/18 18:03	40
Trichloroethene	170	J	200	18	ug/L			03/22/18 18:03	40
Trichlorofluoromethane	ND		200	35	ug/L			03/22/18 18:03	40
Vinyl acetate	ND		200	34	ug/L			03/22/18 18:03	40
Vinyl chloride	ND		200	36	ug/L			03/22/18 18:03	40
Xylenes, Total	ND		200	26	ug/L			03/22/18 18:03	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		03/22/18 18:03	40
4-Bromofluorobenzene (Surr)	101		73 - 120		03/22/18 18:03	40
Toluene-d8 (Surr)	98		80 - 120		03/22/18 18:03	40
Dibromofluoromethane (Surr)	102		75 - 123		03/22/18 18:03	40

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2000	330	ug/L			03/22/18 14:11	400
1,1,2,2-Tetrachloroethane	ND		2000	84	ug/L			03/22/18 14:11	400
1,1,2-Trichloroethane	ND		2000	92	ug/L			03/22/18 14:11	400
1,1-Dichloroethane	ND		2000	150	ug/L			03/22/18 14:11	400
1,1-Dichloroethene	ND	F2	2000	120	ug/L			03/22/18 14:11	400
1,2-Dichloroethane	ND		2000	84	ug/L			03/22/18 14:11	400
1,2-Dichloropropane	ND		2000	290	ug/L			03/22/18 14:11	400
2-Hexanone	ND		4000	500	ug/L			03/22/18 14:11	400

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-24

Lab Sample ID: 480-132964-3

Date Collected: 03/21/18 08:20

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		4000	1200	ug/L			03/22/18 14:11	400
Benzene	ND		2000	160	ug/L			03/22/18 14:11	400
Bromodichloromethane	ND		2000	160	ug/L			03/22/18 14:11	400
Bromoform	ND		2000	100	ug/L			03/22/18 14:11	400
Bromomethane	ND		2000	280	ug/L			03/22/18 14:11	400
Carbon disulfide	ND		2000	76	ug/L			03/22/18 14:11	400
Carbon tetrachloride	ND	F2	2000	110	ug/L			03/22/18 14:11	400
Chlorobenzene	ND		2000	300	ug/L			03/22/18 14:11	400
Chloroethane	ND		2000	130	ug/L			03/22/18 14:11	400
Chloroform	ND		2000	140	ug/L			03/22/18 14:11	400
Chloromethane	ND		2000	140	ug/L			03/22/18 14:11	400
cis-1,2-Dichloroethene	18000		2000	320	ug/L			03/22/18 14:11	400
cis-1,3-Dichloropropene	ND		2000	140	ug/L			03/22/18 14:11	400
Dibromochloromethane	ND		2000	130	ug/L			03/22/18 14:11	400
Dichlorodifluoromethane	ND	F1	2000	270	ug/L			03/22/18 14:11	400
Ethylbenzene	ND		2000	300	ug/L			03/22/18 14:11	400
Methyl ethyl ketone (MEK)	ND		4000	530	ug/L			03/22/18 14:11	400
Methyl isobutyl ketone (MIBK)	ND		4000	840	ug/L			03/22/18 14:11	400
Methylene Chloride	ND		2000	180	ug/L			03/22/18 14:11	400
Styrene	ND		2000	290	ug/L			03/22/18 14:11	400
Tetrachloroethene	ND		2000	140	ug/L			03/22/18 14:11	400
Toluene	ND		2000	200	ug/L			03/22/18 14:11	400
trans-1,2-Dichloroethene	ND		2000	360	ug/L			03/22/18 14:11	400
trans-1,3-Dichloropropene	ND		2000	150	ug/L			03/22/18 14:11	400
Trichloroethene	ND		2000	180	ug/L			03/22/18 14:11	400
Trichlorofluoromethane	ND		2000	350	ug/L			03/22/18 14:11	400
Vinyl acetate	ND		2000	340	ug/L			03/22/18 14:11	400
Vinyl chloride	ND		2000	360	ug/L			03/22/18 14:11	400
Xylenes, Total	ND		2000	260	ug/L			03/22/18 14:11	400
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					03/22/18 14:11	400
4-Bromofluorobenzene (Surr)	102		73 - 120					03/22/18 14:11	400
Toluene-d8 (Surr)	98		80 - 120					03/22/18 14:11	400
Dibromofluoromethane (Surr)	105		75 - 123					03/22/18 14:11	400

Client Sample ID: MW-25

Lab Sample ID: 480-132964-4

Date Collected: 03/21/18 11:10

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	J	5.0	0.82	ug/L			03/22/18 18:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 18:26	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 18:26	1
1,1-Dichloroethane	12		5.0	0.38	ug/L			03/22/18 18:26	1
1,1-Dichloroethene	1.4	J	5.0	0.29	ug/L			03/22/18 18:26	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 18:26	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 18:26	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 18:26	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-25

Lab Sample ID: 480-132964-4

Date Collected: 03/21/18 11:10

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	89		10	3.0	ug/L			03/22/18 18:26	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 18:26	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 18:26	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 18:26	1
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 18:26	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 18:26	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 18:26	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 18:26	1
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 18:26	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 18:26	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 18:26	1
cis-1,2-Dichloroethene	170	E-	5.0	0.81	ug/L			03/22/18 18:26	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 18:26	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 18:26	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 18:26	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 18:26	1
Methyl ethyl ketone (MEK)	ND		10	1.3	ug/L			03/22/18 18:26	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 18:26	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 18:26	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 18:26	1
Tetrachloroethene	0.39	J	5.0	0.36	ug/L			03/22/18 18:26	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 18:26	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 18:26	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 18:26	1
Trichloroethene	7.5		5.0	0.46	ug/L			03/22/18 18:26	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 18:26	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 18:26	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/22/18 18:26	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/22/18 18:26	1
4-Bromofluorobenzene (Surr)	100		73 - 120		03/22/18 18:26	1
Toluene-d8 (Surr)	97		80 - 120		03/22/18 18:26	1
Dibromofluoromethane (Surr)	100		75 - 123		03/22/18 18:26	1

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	4.1	ug/L			03/22/18 14:34	5
1,1,2,2-Tetrachloroethane	ND		25	1.1	ug/L			03/22/18 14:34	5
1,1,2-Trichloroethane	ND		25	1.2	ug/L			03/22/18 14:34	5
1,1-Dichloroethane	12	J	25	1.9	ug/L			03/22/18 14:34	5
1,1-Dichloroethene	1.7	J	25	1.5	ug/L			03/22/18 14:34	5
1,2-Dichloroethane	ND		25	1.1	ug/L			03/22/18 14:34	5
1,2-Dichloropropane	ND		25	3.6	ug/L			03/22/18 14:34	5
2-Hexanone	ND		50	6.2	ug/L			03/22/18 14:34	5
Acetone	95		50	15	ug/L			03/22/18 14:34	5
Benzene	ND		25	2.1	ug/L			03/22/18 14:34	5
Bromodichloromethane	ND		25	2.0	ug/L			03/22/18 14:34	5
Bromoform	ND		25	1.3	ug/L			03/22/18 14:34	5

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-25

Lab Sample ID: 480-132964-4

Date Collected: 03/21/18 11:10

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		25	3.5	ug/L			03/22/18 14:34	5
Carbon disulfide	ND		25	0.95	ug/L			03/22/18 14:34	5
Carbon tetrachloride	ND		25	1.4	ug/L			03/22/18 14:34	5
Chlorobenzene	ND		25	3.8	ug/L			03/22/18 14:34	5
Chloroethane	ND		25	1.6	ug/L			03/22/18 14:34	5
Chloroform	ND		25	1.7	ug/L			03/22/18 14:34	5
Chloromethane	ND		25	1.8	ug/L			03/22/18 14:34	5
cis-1,2-Dichloroethene	170		25	4.1	ug/L			03/22/18 14:34	5
cis-1,3-Dichloropropene	ND		25	1.8	ug/L			03/22/18 14:34	5
Dibromochloromethane	ND		25	1.6	ug/L			03/22/18 14:34	5
Dichlorodifluoromethane	ND		25	3.4	ug/L			03/22/18 14:34	5
Ethylbenzene	ND		25	3.7	ug/L			03/22/18 14:34	5
Methyl ethyl ketone (MEK)	ND		50	6.6	ug/L			03/22/18 14:34	5
Methyl isobutyl ketone (MIBK)	ND		50	11	ug/L			03/22/18 14:34	5
Methylene Chloride	ND		25	2.2	ug/L			03/22/18 14:34	5
Styrene	ND		25	3.7	ug/L			03/22/18 14:34	5
Tetrachloroethene	ND		25	1.8	ug/L			03/22/18 14:34	5
Toluene	ND		25	2.6	ug/L			03/22/18 14:34	5
trans-1,2-Dichloroethene	ND		25	4.5	ug/L			03/22/18 14:34	5
trans-1,3-Dichloropropene	ND		25	1.9	ug/L			03/22/18 14:34	5
Trichloroethene	7.6 J		25	2.3	ug/L			03/22/18 14:34	5
Trichlorofluoromethane	ND		25	4.4	ug/L			03/22/18 14:34	5
Vinyl acetate	ND		25	4.3	ug/L			03/22/18 14:34	5
Vinyl chloride	ND		25	4.5	ug/L			03/22/18 14:34	5
Xylenes, Total	ND		25	3.3	ug/L			03/22/18 14:34	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		03/22/18 14:34	5
4-Bromofluorobenzene (Surr)	102		73 - 120		03/22/18 14:34	5
Toluene-d8 (Surr)	99		80 - 120		03/22/18 14:34	5
Dibromofluoromethane (Surr)	99		75 - 123		03/22/18 14:34	5

Client Sample ID: MW-26

Lab Sample ID: 480-132964-5

Date Collected: 03/21/18 08:45

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	3.3	ug/L			03/22/18 15:44	4
1,1,2,2-Tetrachloroethane	ND		20	0.84	ug/L			03/22/18 15:44	4
1,1,2-Trichloroethane	ND		20	0.92	ug/L			03/22/18 15:44	4
1,1-Dichloroethane	ND		20	1.5	ug/L			03/22/18 15:44	4
1,1-Dichloroethene	ND		20	1.2	ug/L			03/22/18 15:44	4
1,2-Dichloroethane	ND		20	0.84	ug/L			03/22/18 15:44	4
1,2-Dichloropropane	ND		20	2.9	ug/L			03/22/18 15:44	4
2-Hexanone	ND		40	5.0	ug/L			03/22/18 15:44	4
Acetone	140		40	12	ug/L			03/22/18 15:44	4
Benzene	ND		20	1.6	ug/L			03/22/18 15:44	4
Bromodichloromethane	ND		20	1.6	ug/L			03/22/18 15:44	4
Bromoform	ND		20	1.0	ug/L			03/22/18 15:44	4

TestAmerica Buffalo



# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-26

Date Collected: 03/21/18 08:45

Date Received: 03/22/18 01:00

Lab Sample ID: 480-132964-5

Matrix: Water

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		20	2.8	ug/L			03/22/18 15:44	4
Carbon disulfide	ND		20	0.76	ug/L			03/22/18 15:44	4
Carbon tetrachloride	ND		20	1.1	ug/L			03/22/18 15:44	4
Chlorobenzene	ND		20	3.0	ug/L			03/22/18 15:44	4
Chloroethane	ND		20	1.3	ug/L			03/22/18 15:44	4
Chloroform	ND		20	1.4	ug/L			03/22/18 15:44	4
Chloromethane	ND		20	1.4	ug/L			03/22/18 15:44	4
cis-1,2-Dichloroethene	52		20	3.2	ug/L			03/22/18 15:44	4
cis-1,3-Dichloropropene	ND		20	1.4	ug/L			03/22/18 15:44	4
Dibromochloromethane	ND		20	1.3	ug/L			03/22/18 15:44	4
Dichlorodifluoromethane	ND		20	2.7	ug/L			03/22/18 15:44	4
Ethylbenzene	ND		20	3.0	ug/L			03/22/18 15:44	4
Methyl ethyl ketone (MEK)	ND		40	5.3	ug/L			03/22/18 15:44	4
Methyl isobutyl ketone (MIBK)	ND		40	8.4	ug/L			03/22/18 15:44	4
Methylene Chloride	ND		20	1.8	ug/L			03/22/18 15:44	4
Styrene	ND		20	2.9	ug/L			03/22/18 15:44	4
Tetrachloroethene	ND		20	1.4	ug/L			03/22/18 15:44	4
Toluene	ND		20	2.0	ug/L			03/22/18 15:44	4
trans-1,2-Dichloroethene	ND		20	3.6	ug/L			03/22/18 15:44	4
trans-1,3-Dichloropropene	ND		20	1.5	ug/L			03/22/18 15:44	4
Trichloroethene	38		20	1.8	ug/L			03/22/18 15:44	4
Trichlorofluoromethane	ND		20	3.5	ug/L			03/22/18 15:44	4
Vinyl acetate	ND		20	3.4	ug/L			03/22/18 15:44	4
Vinyl chloride	ND		20	3.6	ug/L			03/22/18 15:44	4
Xylenes, Total	ND		20	2.6	ug/L			03/22/18 15:44	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/22/18 15:44	4
4-Bromofluorobenzene (Surr)	101		73 - 120		03/22/18 15:44	4
Toluene-d8 (Surr)	100		80 - 120		03/22/18 15:44	4
Dibromofluoromethane (Surr)	102		75 - 123		03/22/18 15:44	4

Client Sample ID: MW-29

Date Collected: 03/21/18 10:35

Date Received: 03/22/18 01:00

Lab Sample ID: 480-132964-6

Matrix: Water

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L			03/22/18 18:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 18:50	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 18:50	1
1,1-Dichloroethane	0.53	J	5.0	0.38	ug/L			03/22/18 18:50	1
1,1-Dichloroethene	ND		5.0	0.29	ug/L			03/22/18 18:50	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 18:50	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 18:50	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 18:50	1
Acetone	98		10	3.0	ug/L			03/22/18 18:50	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 18:50	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 18:50	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 18:50	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-29

Lab Sample ID: 480-132964-6

Date Collected: 03/21/18 10:35

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 18:50	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 18:50	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 18:50	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 18:50	1
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 18:50	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 18:50	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 18:50	1
cis-1,2-Dichloroethene	130	E-	5.0	0.81	ug/L			03/22/18 18:50	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 18:50	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 18:50	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 18:50	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 18:50	1
Methyl ethyl ketone (MEK)	ND		10	1.3	ug/L			03/22/18 18:50	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 18:50	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 18:50	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 18:50	1
Tetrachloroethene	ND		5.0	0.36	ug/L			03/22/18 18:50	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 18:50	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 18:50	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 18:50	1
Trichloroethene	0.53	J	5.0	0.46	ug/L			03/22/18 18:50	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 18:50	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 18:50	1
Vinyl chloride	1.2	J	5.0	0.90	ug/L			03/22/18 18:50	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		03/22/18 18:50	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/22/18 18:50	1
Toluene-d8 (Surr)	99		80 - 120		03/22/18 18:50	1
Dibromofluoromethane (Surr)	99		75 - 123		03/22/18 18:50	1

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	1.6	ug/L			03/22/18 14:57	2
1,1,2,2-Tetrachloroethane	ND		10	0.42	ug/L			03/22/18 14:57	2
1,1,2-Trichloroethane	ND		10	0.46	ug/L			03/22/18 14:57	2
1,1-Dichloroethane	ND		10	0.76	ug/L			03/22/18 14:57	2
1,1-Dichloroethene	ND		10	0.58	ug/L			03/22/18 14:57	2
1,2-Dichloroethane	ND		10	0.42	ug/L			03/22/18 14:57	2
1,2-Dichloropropane	ND		10	1.4	ug/L			03/22/18 14:57	2
2-Hexanone	ND		20	2.5	ug/L			03/22/18 14:57	2
Acetone	85		20	6.0	ug/L			03/22/18 14:57	2
Benzene	ND		10	0.82	ug/L			03/22/18 14:57	2
Bromodichloromethane	ND		10	0.78	ug/L			03/22/18 14:57	2
Bromoform	ND		10	0.52	ug/L			03/22/18 14:57	2
Bromomethane	ND		10	1.4	ug/L			03/22/18 14:57	2
Carbon disulfide	ND		10	0.38	ug/L			03/22/18 14:57	2
Carbon tetrachloride	ND		10	0.54	ug/L			03/22/18 14:57	2
Chlorobenzene	ND		10	1.5	ug/L			03/22/18 14:57	2

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-29

Lab Sample ID: 480-132964-6

Date Collected: 03/21/18 10:35

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10	0.64	ug/L			03/22/18 14:57	2
Chloroform	ND		10	0.68	ug/L			03/22/18 14:57	2
Chloromethane	ND		10	0.70	ug/L			03/22/18 14:57	2
cis-1,2-Dichloroethene	130		10	1.6	ug/L			03/22/18 14:57	2
cis-1,3-Dichloropropene	ND		10	0.72	ug/L			03/22/18 14:57	2
Dibromochloromethane	ND		10	0.64	ug/L			03/22/18 14:57	2
Dichlorodifluoromethane	ND		10	1.4	ug/L			03/22/18 14:57	2
Ethylbenzene	ND		10	1.5	ug/L			03/22/18 14:57	2
Methyl ethyl ketone (MEK)	ND		20	2.6	ug/L			03/22/18 14:57	2
Methyl isobutyl ketone (MIBK)	ND		20	4.2	ug/L			03/22/18 14:57	2
Methylene Chloride	ND		10	0.88	ug/L			03/22/18 14:57	2
Styrene	ND		10	1.5	ug/L			03/22/18 14:57	2
Tetrachloroethene	ND		10	0.72	ug/L			03/22/18 14:57	2
Toluene	ND		10	1.0	ug/L			03/22/18 14:57	2
trans-1,2-Dichloroethene	ND		10	1.8	ug/L			03/22/18 14:57	2
trans-1,3-Dichloropropene	ND		10	0.74	ug/L			03/22/18 14:57	2
Trichloroethene	ND		10	0.92	ug/L			03/22/18 14:57	2
Trichlorofluoromethane	ND		10	1.8	ug/L			03/22/18 14:57	2
Vinyl acetate	ND		10	1.7	ug/L			03/22/18 14:57	2
Vinyl chloride	ND		10	1.8	ug/L			03/22/18 14:57	2
Xylenes, Total	ND		10	1.3	ug/L			03/22/18 14:57	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					03/22/18 14:57	2
4-Bromofluorobenzene (Surr)	100		73 - 120					03/22/18 14:57	2
Toluene-d8 (Surr)	99		80 - 120					03/22/18 14:57	2
Dibromofluoromethane (Surr)	101		75 - 123					03/22/18 14:57	2

Client Sample ID: MW-BR-05

Lab Sample ID: 480-132964-7

Date Collected: 03/21/18 13:30

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L			03/22/18 16:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 16:07	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 16:07	1
1,1-Dichloroethane	ND		5.0	0.38	ug/L			03/22/18 16:07	1
1,1-Dichloroethene	ND		5.0	0.29	ug/L			03/22/18 16:07	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 16:07	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 16:07	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 16:07	1
Acetone	7.8	J	10	3.0	ug/L			03/22/18 16:07	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 16:07	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 16:07	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 16:07	1
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 16:07	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 16:07	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 16:07	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 16:07	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

**Client Sample ID: MW-BR-05**

**Lab Sample ID: 480-132964-7**

Date Collected: 03/21/18 13:30

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 16:07	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 16:07	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 16:07	1
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L			03/22/18 16:07	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 16:07	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 16:07	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 16:07	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 16:07	1
Methyl ethyl ketone (MEK)	ND		10	1.3	ug/L			03/22/18 16:07	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 16:07	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 16:07	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 16:07	1
Tetrachloroethene	ND		5.0	0.36	ug/L			03/22/18 16:07	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 16:07	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 16:07	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 16:07	1
Trichloroethene	ND		5.0	0.46	ug/L			03/22/18 16:07	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 16:07	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 16:07	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/22/18 16:07	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		03/22/18 16:07	1
4-Bromofluorobenzene (Surr)	104		73 - 120		03/22/18 16:07	1
Toluene-d8 (Surr)	99		80 - 120		03/22/18 16:07	1
Dibromofluoromethane (Surr)	101		75 - 123		03/22/18 16:07	1

**Client Sample ID: MW-BR-06**

**Lab Sample ID: 480-132964-8**

Date Collected: 03/21/18 09:20

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L			03/22/18 17:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 17:17	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 17:17	1
1,1-Dichloroethane	ND		5.0	0.38	ug/L			03/22/18 17:17	1
1,1-Dichloroethene	ND		5.0	0.29	ug/L			03/22/18 17:17	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 17:17	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 17:17	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 17:17	1
Acetone	120		10	3.0	ug/L			03/22/18 17:17	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 17:17	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 17:17	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 17:17	1
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 17:17	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 17:17	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 17:17	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 17:17	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: MW-BR-06

Lab Sample ID: 480-132964-8

Date Collected: 03/21/18 09:20

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 17:17	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 17:17	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 17:17	1
cis-1,2-Dichloroethene	4.8	J	5.0	0.81	ug/L			03/22/18 17:17	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 17:17	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 17:17	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 17:17	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 17:17	1
Methyl ethyl ketone (MEK)	9.0	J	10	1.3	ug/L			03/22/18 17:17	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 17:17	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 17:17	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 17:17	1
Tetrachloroethene	ND		5.0	0.36	ug/L			03/22/18 17:17	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 17:17	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 17:17	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 17:17	1
Trichloroethene	3.4	J	5.0	0.46	ug/L			03/22/18 17:17	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 17:17	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 17:17	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/22/18 17:17	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		03/22/18 17:17	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/22/18 17:17	1
Toluene-d8 (Surr)	99		80 - 120		03/22/18 17:17	1
Dibromofluoromethane (Surr)	102		75 - 123		03/22/18 17:17	1

Client Sample ID: DUP-032118

Lab Sample ID: 480-132964-9

Date Collected: 03/21/18 00:00

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	J	5.0	0.82	ug/L			03/24/18 00:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/24/18 00:00	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/24/18 00:00	1
1,1-Dichloroethane	12		5.0	0.38	ug/L			03/24/18 00:00	1
1,1-Dichloroethene	1.6	J	5.0	0.29	ug/L			03/24/18 00:00	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/24/18 00:00	1
1,2-Dichloropropene	ND		5.0	0.72	ug/L			03/24/18 00:00	1
2-Hexanone	ND		10	1.2	ug/L			03/24/18 00:00	1
Acetone	89		10	3.0	ug/L			03/24/18 00:00	1
Benzene	ND		5.0	0.41	ug/L			03/24/18 00:00	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/24/18 00:00	1
Bromoform	ND		5.0	0.26	ug/L			03/24/18 00:00	1
Bromomethane	ND		5.0	0.69	ug/L			03/24/18 00:00	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/24/18 00:00	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/24/18 00:00	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/24/18 00:00	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: DUP-032118

Lab Sample ID: 480-132964-9

Date Collected: 03/21/18 00:00

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		5.0	0.32	ug/L			03/24/18 00:00	1
Chloroform	ND		5.0	0.34	ug/L			03/24/18 00:00	1
Chloromethane	ND		5.0	0.35	ug/L			03/24/18 00:00	1
cis-1,2-Dichloroethene	170	E 180	5.0	0.81	ug/L			03/24/18 00:00	1
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/24/18 00:00	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/24/18 00:00	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/24/18 00:00	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/24/18 00:00	1
Methyl ethyl ketone (MEK)	7.4	J	10	1.3	ug/L			03/24/18 00:00	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/24/18 00:00	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/24/18 00:00	1
Styrene	ND		5.0	0.73	ug/L			03/24/18 00:00	1
Tetrachloroethene	0.50	J	5.0	0.36	ug/L			03/24/18 00:00	1
Toluene	ND		5.0	0.51	ug/L			03/24/18 00:00	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/24/18 00:00	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/24/18 00:00	1
Trichloroethene	7.6		5.0	0.46	ug/L			03/24/18 00:00	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/24/18 00:00	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/24/18 00:00	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/24/18 00:00	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/24/18 00:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		03/24/18 00:00	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/24/18 00:00	1
Toluene-d8 (Surr)	100		80 - 120		03/24/18 00:00	1
Dibromofluoromethane (Surr)	102		75 - 123		03/24/18 00:00	1

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	3.3	ug/L			03/24/18 11:51	4
1,1,2,2-Tetrachloroethane	ND		20	0.84	ug/L			03/24/18 11:51	4
1,1,2-Trichloroethane	ND		20	0.92	ug/L			03/24/18 11:51	4
1,1-Dichloroethane	13	J	20	1.5	ug/L			03/24/18 11:51	4
1,1-Dichloroethene	1.5	J	20	1.2	ug/L			03/24/18 11:51	4
1,2-Dichloroethane	ND		20	0.84	ug/L			03/24/18 11:51	4
1,2-Dichloropropane	ND		20	2.9	ug/L			03/24/18 11:51	4
2-Hexanone	ND		40	5.0	ug/L			03/24/18 11:51	4
Acetone	93		40	12	ug/L			03/24/18 11:51	4
Benzene	ND		20	1.6	ug/L			03/24/18 11:51	4
Bromodichloromethane	ND		20	1.6	ug/L			03/24/18 11:51	4
Bromoform	ND		20	1.0	ug/L			03/24/18 11:51	4
Bromomethane	ND		20	2.8	ug/L			03/24/18 11:51	4
Carbon disulfide	ND		20	0.76	ug/L			03/24/18 11:51	4
Carbon tetrachloride	ND		20	1.1	ug/L			03/24/18 11:51	4
Chlorobenzene	ND		20	3.0	ug/L			03/24/18 11:51	4
Chloroethane	ND		20	1.3	ug/L			03/24/18 11:51	4
Chloroform	ND		20	1.4	ug/L			03/24/18 11:51	4
Chloromethane	ND		20	1.4	ug/L			03/24/18 11:51	4
cis-1,2-Dichloroethene	180		20	3.2	ug/L			03/24/18 11:51	4

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: DUP-032118

Lab Sample ID: 480-132964-9

Date Collected: 03/21/18 00:00

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		20	1.4	ug/L			03/24/18 11:51	4
Dibromochloromethane	ND		20	1.3	ug/L			03/24/18 11:51	4
Dichlorodifluoromethane	ND		20	2.7	ug/L			03/24/18 11:51	4
Ethylbenzene	ND		20	3.0	ug/L			03/24/18 11:51	4
Methyl ethyl ketone (MEK)	ND		40	5.3	ug/L			03/24/18 11:51	4
Methyl isobutyl ketone (MIBK)	ND		40	8.4	ug/L			03/24/18 11:51	4
Methylene Chloride	ND		20	1.8	ug/L			03/24/18 11:51	4
Styrene	ND		20	2.9	ug/L			03/24/18 11:51	4
Tetrachloroethene	ND		20	1.4	ug/L			03/24/18 11:51	4
Toluene	ND		20	2.0	ug/L			03/24/18 11:51	4
trans-1,2-Dichloroethene	ND		20	3.6	ug/L			03/24/18 11:51	4
trans-1,3-Dichloropropene	ND		20	1.5	ug/L			03/24/18 11:51	4
Trichloroethene	8.2	J	20	1.8	ug/L			03/24/18 11:51	4
Trichlorofluoromethane	ND		20	3.5	ug/L			03/24/18 11:51	4
Vinyl acetate	ND		20	3.4	ug/L			03/24/18 11:51	4
Vinyl chloride	ND		20	3.6	ug/L			03/24/18 11:51	4
Xylenes, Total	ND		20	2.6	ug/L			03/24/18 11:51	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					03/24/18 11:51	4
4-Bromofluorobenzene (Surr)	100		73 - 120					03/24/18 11:51	4
Toluene-d8 (Surr)	97		80 - 120					03/24/18 11:51	4
Dibromofluoromethane (Surr)	103		75 - 123					03/24/18 11:51	4

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-132964-10

Date Collected: 03/21/18 00:00

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.82	ug/L			03/22/18 16:53	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.21	ug/L			03/22/18 16:53	1
1,1,2-Trichloroethane	ND		5.0	0.23	ug/L			03/22/18 16:53	1
1,1-Dichloroethane	ND		5.0	0.38	ug/L			03/22/18 16:53	1
1,1-Dichloroethene	ND		5.0	0.29	ug/L			03/22/18 16:53	1
1,2-Dichloroethane	ND		5.0	0.21	ug/L			03/22/18 16:53	1
1,2-Dichloropropane	ND		5.0	0.72	ug/L			03/22/18 16:53	1
2-Hexanone	ND		10	1.2	ug/L			03/22/18 16:53	1
Acetone	ND		10	3.0	ug/L			03/22/18 16:53	1
Benzene	ND		5.0	0.41	ug/L			03/22/18 16:53	1
Bromodichloromethane	ND		5.0	0.39	ug/L			03/22/18 16:53	1
Bromoform	ND		5.0	0.26	ug/L			03/22/18 16:53	1
Bromomethane	ND		5.0	0.69	ug/L			03/22/18 16:53	1
Carbon disulfide	ND		5.0	0.19	ug/L			03/22/18 16:53	1
Carbon tetrachloride	ND		5.0	0.27	ug/L			03/22/18 16:53	1
Chlorobenzene	ND		5.0	0.75	ug/L			03/22/18 16:53	1
Chloroethane	ND		5.0	0.32	ug/L			03/22/18 16:53	1
Chloroform	ND		5.0	0.34	ug/L			03/22/18 16:53	1
Chloromethane	ND		5.0	0.35	ug/L			03/22/18 16:53	1
cis-1,2-Dichloroethene	ND		5.0	0.81	ug/L			03/22/18 16:53	1

TestAmerica Buffalo

# Client Sample Results

Client: ARCADIS U.S. Inc  
Project/Site: GTEOSI - Seneca Falls

TestAmerica Job ID: 480-132964-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-132964-10

Date Collected: 03/21/18 00:00

Matrix: Water

Date Received: 03/22/18 01:00

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		5.0	0.36	ug/L			03/22/18 16:53	1
Dibromochloromethane	ND		5.0	0.32	ug/L			03/22/18 16:53	1
Dichlorodifluoromethane	ND		5.0	0.68	ug/L			03/22/18 16:53	1
Ethylbenzene	ND		5.0	0.74	ug/L			03/22/18 16:53	1
Methyl ethyl ketone (MEK)	ND		10	1.3	ug/L			03/22/18 16:53	1
Methyl isobutyl ketone (MIBK)	ND		10	2.1	ug/L			03/22/18 16:53	1
Methylene Chloride	ND		5.0	0.44	ug/L			03/22/18 16:53	1
Styrene	ND		5.0	0.73	ug/L			03/22/18 16:53	1
Tetrachloroethene	ND		5.0	0.36	ug/L			03/22/18 16:53	1
Toluene	ND		5.0	0.51	ug/L			03/22/18 16:53	1
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			03/22/18 16:53	1
trans-1,3-Dichloropropene	ND		5.0	0.37	ug/L			03/22/18 16:53	1
Trichloroethene	ND		5.0	0.46	ug/L			03/22/18 16:53	1
Trichlorofluoromethane	ND		5.0	0.88	ug/L			03/22/18 16:53	1
Vinyl acetate	ND		5.0	0.85	ug/L			03/22/18 16:53	1
Vinyl chloride	ND		5.0	0.90	ug/L			03/22/18 16:53	1
Xylenes, Total	ND		5.0	0.66	ug/L			03/22/18 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		03/22/18 16:53	1
4-Bromofluorobenzene (Surr)	102		73 - 120		03/22/18 16:53	1
Toluene-d8 (Surr)	98		80 - 120		03/22/18 16:53	1
Dibromofluoromethane (Surr)	102		75 - 123		03/22/18 16:53	1