



GTE Operations Support Incorporated
One Verizon Way (VC34W414)
Basking Ridge, New Jersey 07920-1097

May 2, 2014

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

Re: *March 2014 Semi-Annual Groundwater Sampling Event*

Dear Mr. Magee:

Attached are the March 2014 semi-annual groundwater sampling results for the Former Philips Display Components Facility in Seneca Falls, New York (Site). 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 15, 2014.

Please call me at (908) 559-3691 if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Pam M. Cox".

Pam M. Cox, PG, CHMM
Manager – Corporate Workplace Safety &
Environmental Compliance

ec:

Ms. Denise Radtke (NYSDEC)
Ms. Melissa A. Menetti (New York State Department of Health)
Mr. Nidal Azzam (USEPA)
Mr. Sam Ezekwo (USEPA)
Ms. Patricia Jones (Seneca County Industrial Development Agency)
Mr. Matt Dukat (H.P. Neun)
Mr. Michael Hanna (Seneca Falls Specialty Company)
Mr. Ray Larkin (Environmental Consultant)
Ms. Marzi Sharfaei (ARCADIS U.S., Inc.)
Mr. Daniel Lang (ARCADIS U.S., Inc.)

March 2014 Semi-Annual Groundwater Sampling

On March 18 and 19, 2014, ARCADIS U.S., Inc. measured depth to water in 17 monitoring wells and retrieved the September 17, 2013 passive diffusion bags (PDBs) from eight monitoring wells (Figure 1). Following PDB retrieval, groundwater samples were collected for volatile organic compound (VOC) analysis. Samples were collected 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). One trip blank and one duplicate sample were collected. The samples were shipped overnight to TestAmerica Laboratories, Inc. of Buffalo, NY. The samples were analyzed for VOCs using United States Environmental Protection Agency Method 8260B. Data Validation Services, Inc. of North Creek, New York performed third-party data validation. Sample results are usable as reported or with minor qualification (Attachment A). Graphs of groundwater VOC analytical results are in Attachment B.

Table 1 provides depth to water measurements. Table 2 provides the March 2014 groundwater and quality assurance and quality control analytical results. VOC concentrations in the March 2014 samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Class GA Standards.

- trichloroethene (TCE) 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, MW-23, MW-25, MW-26, and MW-29 and in the duplicate sample from monitoring well MW-25.
- *cis*-1,2-dichloroethene (*cis*-1,2-DCE) 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.
- vinyl chloride was reported in the samples from monitoring well MW-29 at a concentration greater than the NYSDEC Class GA Standard of 2 $\mu\text{g/l}$.
- 1,1-dichloroethane (1,1-DCA) was reported at concentrations greater than the NYSDEC Class GA Standard of 5 $\mu\text{g/l}$ in the sample and the duplicate sample from monitoring well MW-25.

On March 19, 2014, after groundwater samples were collected, new PDBs were deployed in the 14 monitoring wells scheduled for groundwater sampling in September 2014. The PDBs were installed in the middle of the well screen.

Figures

Figure 1 – Monitoring Well Locations

Tables

Table 1 – Depth to Water Measurements

Table 2 – Groundwater Analytical Results (March 2014)

Attachments

Data Validation Report

Analytical Graphs

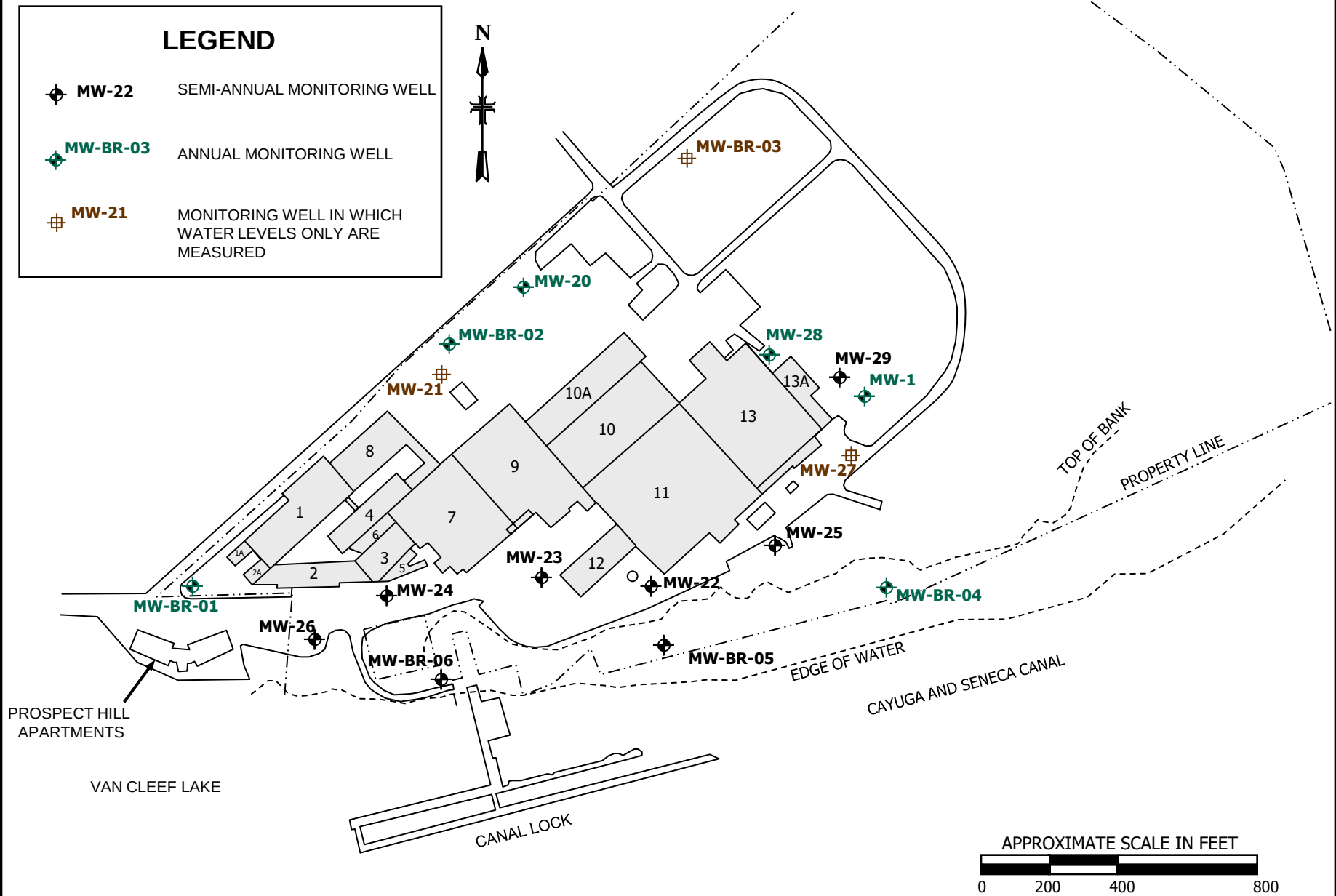
Figures

LEGEND

 **MW-22** SEMI-ANNUAL MONITORING WELL

 **MW-BR-03** ANNUAL MONITORING WELL

 **MW-21** MONITORING WELL IN WHICH WATER LEVELS ONLY ARE MEASURED



PROSPECT HILL
APARTMENTS

VAN CLEEF LAKE

CANAL LOCK

APPROXIMATE SCALE IN FEET
0 200 400 800

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	6.95	453.88
MW-20	463.42	1.03	462.39
MW-21	467.39	2.67	464.72
MW-22	460.77	5.33	455.44
MW-23	460.59	1.83	458.76
MW-24	462.76	2.76	460.00
MW-25	460.74	3.39	457.35
MW-26	458.80	3.55	455.25
MW-27	460.45	6.03	454.42
MW-28	461.26	6.59	454.67
MW-29	459.89	6.08	453.81
MW-BR-01	462.64	34.00	428.64
MW-BR-02	467.87	29.77	438.10
MW-BR-03	457.06	NM	NM
MW-BR-04	396.39	NA	Artesian
MW-BR-05	401.34	21.13	380.21
MW-BR-06	436.30	36.80	399.50

Notes:

AMSL - Above mean sea level

NM - Not Measured; well not accessible due to large piles of plowed snow.

NA - Not Applicable

Depth to water measurements were recorded March 18-19, 2014.

Table 2
Groundwater Analytical Results (March 2014)
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 DUPLICATE	MW-26	MW-29	MW-BR-05	MW-BR-06	TRIP BLANK
1,1,1-Trichloroethane	71-55-6	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	79-00-5	1	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	75-34-3	5	5.0 U	200 U	2000 U	14 J	14 J	0.91 J	10 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	75-35-4	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	107-06-2	0.6	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	78-87-5	1	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
2-Hexanone	591-78-6	50	10 U	200 U	2000 U	40 U	20 U	20 U	20 U	10 U	10 U	10 U
Acetone	67-64-1	50	10 U	400 U	4000 U	15 J	13 J	20 U	20 U	10 U	10 U	10 U
Benzene	71-43-2	1	5.0 U	400 U	4000 U	20 U	40 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	75-27-4	50	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Bromoform	75-25-2	50	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Bromomethane	74-83-9	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	75-15-0	60	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	56-23-5	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	108-90-7	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Chloroethane	75-00-3	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Chloroform	67-66-3	7	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Chloromethane	74-87-3	5	5.0 U	200 U	2000 U	20 UJ	20 UJ	10 UJ	10 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	156-59-2	5	10	440	21000	180	180	130	150	5.0 U	4.5 J	5.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	124-48-1	50	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	75-71-8	5	5.0 UJ	200 UJ	2000 UJ	20 UJ	20 UJ	10 UJ	10 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Ethylbenzene	100-41-4	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	78-93-3	50	10 U	200 U	2000 U	40 U	20 U	20 U	20 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	5	10 U	400 U	4000 U	40 U	40 U	20 U	20 U	10 U	10 U	10 U
Methylene Chloride	75-09-2	5	5.0 U	400 U	4000 U	20 U	40 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Styrene	100-42-5	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	127-18-4	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Toluene	108-88-3	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	156-60-5	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Trichloroethene	79-01-6	5	6.6	2400	2000 U	8.7 J	9.1 J	82	10 U	5.0 U	3.3 J	5.0 U
Trichlorofluoromethane	75-69-4	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	108-05-4	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	75-01-4	2	5.0 U	200 U	2000 U	20 U	20 U	10 U	5.2 J	5.0 U	5.0 U	5.0 U
Xylenes, Total	1330-20-7	5	5.0 U	200 U	2000 U	20 U	20 U	10 U	10 U	5.0 U	5.0 U	5.0 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

UJ - Not detected; the associated reported quantitation limit is estimated.

Attachment A
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 18, 2014

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

RE: Validation of GTE-OSI--Seneca Falls, NY Site Data Package-Groundwaters
TAL-Buffalo SDG No. 480-56496-1

Dear Mr. Flusche:

Review has been completed for the data package generated by TestAmerica Laboratories that pertains to samples collected 03/18/14 and 03/19/14 at the GTE-OSI--Seneca Falls, NY site. Eight aqueous samples, a field duplicate, and a trip blank were analyzed for volatiles by USEPA SW846 method 8260B.

Data validation was performed with guidance from the USEPA Region II validation SOP HW-6, the USEPA National Functional Guidelines for CLP 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 generally processed in compliance with stated protocols. Field sample results are usable either as reported or with minor qualification.

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 with recommended qualifications applied in red ink.

Sample Receipt

Samples were received by the laboratory three and four days after collection. Temperatures at receipt were acceptable, and technical holding times were met.

VOA Analyses by EPA 8260B

Matrix spikes (MSs) of MW-24 show recoveries and correlations that are within laboratory guidelines for the twelve evaluated analytes, with the exception of one low recovery (72%) for cis-1,2-dichloroethene. LCS recoveries of those twelve analytes are within required ranges. The analytical protocol requires that all analytes be evaluated in MSs and LCSs.

The blind field duplicate correlations of MW-25 are acceptable.

Calibration standards show acceptable responses, with the exceptions of those for the following compounds in the continuing calibration standards associated with the indicated samples:

- dichlorodifluoromethane (22%D and 29%D) in all samples
- chloromethane (28%D) in MW-25, MW-26, and DUPE

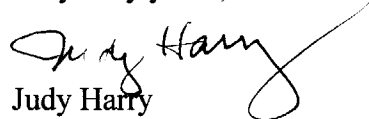
Surrogate and internal standard responses are within required range, and holding times were met.

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

Dilution factors are present on the run logs and raw instrument data, but the actual sample volumes used to derive the dilution factors used in the calculations are not recorded on the volatile worksheets (in fact they state full 5 mL volumes), and the dilution factors therefore cannot be independently verified.

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

Very truly yours,



Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

- U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J** The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
- R** The data are unusable. The analyte may or may not be present.
- EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and LABORATORY CASE NARRATIVE**

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-56496-1	MW-22	Water	03/19/2014 1045	03/22/2014 0900
480-56496-2	MW-23	Water	03/18/2014 1335	03/22/2014 0900
480-56496-3	MW-24	Water	03/18/2014 1400	03/22/2014 0900
480-56496-3MS	MW-24	Water	03/18/2014 1400	03/22/2014 0900
480-56496-3MSD	MW-24	Water	03/18/2014 1400	03/22/2014 0900
480-56496-4	MW-25	Water	03/18/2014 1234	03/22/2014 0900
480-56496-5	MW-26	Water	03/19/2014 1235	03/22/2014 0900
480-56496-6	MW-29	Water	03/18/2014 1630	03/22/2014 0900
480-56496-7	MW-BR-05	Water	03/19/2014 1210	03/22/2014 0900
480-56496-8	MW-BR-06	Water	03/18/2014 1500	03/22/2014 0900
480-56496-9	DUPE	Water	03/18/2014 0000	03/22/2014 0900
480-56496-10	TRIP BLANK	Water	03/19/2014 0000	03/22/2014 0900

Job Narrative
480-56496-1

Comments

No additional comments.

Receipt

The samples were received on 3/22/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 171470 and 171638 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-23 (480-56496-2), MW-24 (480-56496-3), MW-24 (480-56496-3 MS), MW-24 (480-56496-3 MSD), MW-29 (480-56496-6), DUPE (480-56496-9), MW-25 (480-56496-4), MW-26 (480-56496-5). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

QUALIFIED RESULTS FORMS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-22

Lab Sample ID: 480-56496-1

Date Sampled: 03/19/2014 1045

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36319.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1546			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1546				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	10		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND	UJ	0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	6.6		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-23

Lab Sample ID: 480-56496-2

Date Sampled: 03/18/2014 1335

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36320.D
Dilution:	40			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1608			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1608				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		33	200
1,1,2,2-Tetrachloroethane	ND		8.4	200
1,1,2-Trichloroethane	ND		9.2	200
1,1-Dichloroethane	ND		15	200
1,1-Dichloroethene	ND		12	200
1,2-Dichloroethane	ND		8.4	200
1,2-Dichloropropane	ND		29	200
2-Hexanone	ND		50	400
Methyl ethyl ketone (MEK)	ND		53	400
Methyl isobutyl ketone (MIBK)	ND		84	400
Acetone	ND		120	400
Benzene	ND		16	200
Bromodichloromethane	ND		16	200
Bromoform	ND		10	200
Bromomethane	ND		28	200
Carbon disulfide	ND		7.6	200
Carbon tetrachloride	ND		11	200
Chlorobenzene	ND		30	200
Dibromochloromethane	ND		13	200
Chloroethane	ND		13	200
Chloroform	ND		14	200
Chloromethane	ND		14	200
cis-1,2-Dichloroethene	440		32	200
cis-1,3-Dichloropropene	ND		14	200
Dichlorodifluoromethane	ND	UT	27	200
Ethylbenzene	ND		30	200
Methylene Chloride	ND		18	200
Styrene	ND		29	200
Tetrachloroethene	ND		14	200
Toluene	ND		20	200
trans-1,2-Dichloroethene	ND		36	200
trans-1,3-Dichloropropene	ND		15	200
Trichloroethene	2400		18	200
Trichlorofluoromethane	ND		35	200
Vinyl chloride	ND		36	200
Xylenes, Total	ND		26	200
Vinyl acetate	ND		34	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-24

Lab Sample ID: 480-56496-3

Date Sampled: 03/18/2014 1400

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36321.D
Dilution:	400			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1630			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1630				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		330	2000
1,1,2,2-Tetrachloroethane	ND		84	2000
1,1,2-Trichloroethane	ND		92	2000
1,1-Dichloroethane	ND		150	2000
1,1-Dichloroethene	ND		120	2000
1,2-Dichloroethane	ND		84	2000
1,2-Dichloropropane	ND		290	2000
2-Hexanone	ND		500	4000
Methyl ethyl ketone (MEK)	ND		530	4000
Methyl isobutyl ketone (MIBK)	ND		840	4000
Acetone	ND		1200	4000
Benzene	ND		160	2000
Bromodichloromethane	ND		160	2000
Bromoform	ND		100	2000
Bromomethane	ND		280	2000
Carbon disulfide	ND		76	2000
Carbon tetrachloride	ND		110	2000
Chlorobenzene	ND		300	2000
Dibromochloromethane	ND		130	2000
Chloroethane	ND		130	2000
Chloroform	ND		140	2000
Chloromethane	ND		140	2000
cis-1,2-Dichloroethene	21000		320	2000
cis-1,3-Dichloropropene	ND		140	2000
Dichlorodifluoromethane	ND	UJ	270	2000
Ethylbenzene	ND		300	2000
Methylene Chloride	ND		180	2000
Styrene	ND		290	2000
Tetrachloroethene	ND		140	2000
Toluene	ND		200	2000
trans-1,2-Dichloroethene	ND		360	2000
trans-1,3-Dichloropropene	ND		150	2000
Trichloroethene	ND		180	2000
Trichlorofluoromethane	ND		350	2000
Vinyl chloride	ND		360	2000
Xylenes, Total	ND		260	2000
Vinyl acetate	ND		340	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-25

Lab Sample ID: 480-56496-4

Date Sampled: 03/18/2014 1234

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171638	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36337.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 2246			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 2246				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		3.3	20
1,1,2,2-Tetrachloroethane	ND		0.84	20
1,1,2-Trichloroethane	ND		0.92	20
1,1-Dichloroethane	14	J	1.5	20
1,1-Dichloroethene	ND		1.2	20
1,2-Dichloroethane	ND		0.84	20
1,2-Dichloropropane	ND		2.9	20
2-Hexanone	ND		5.0	40
Methyl ethyl ketone (MEK)	ND		5.3	40
Methyl isobutyl ketone (MIBK)	ND		8.4	40
Acetone	15	J	12	40
Benzene	ND		1.6	20
Bromodichloromethane	ND		1.6	20
Bromoform	ND		1.0	20
Bromomethane	ND		2.8	20
Carbon disulfide	ND		0.76	20
Carbon tetrachloride	ND		1.1	20
Chlorobenzene	ND		3.0	20
Dibromochloromethane	ND		1.3	20
Chloroethane	ND		1.3	20
Chloroform	ND		1.4	20
Chloromethane	ND	UJ	1.4	20
cis-1,2-Dichloroethene	180		3.2	20
cis-1,3-Dichloropropene	ND		1.4	20
Dichlorodifluoromethane	ND	UJ	2.7	20
Ethylbenzene	ND		3.0	20
Methylene Chloride	ND		1.8	20
Styrene	ND		2.9	20
Tetrachloroethene	ND		1.4	20
Toluene	ND		2.0	20
trans-1,2-Dichloroethene	ND		3.6	20
trans-1,3-Dichloropropene	ND		1.5	20
Trichloroethene	8.7	J	1.8	20
Trichlorofluoromethane	ND		3.5	20
Vinyl chloride	ND		3.6	20
Xylenes, Total	ND		2.6	20
Vinyl acetate	ND		3.4	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		66 - 137
Toluene-d8 (Surr)	106		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-26

Lab Sample ID: 480-56496-5

Date Sampled: 03/19/2014 1235

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171638	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36338.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 2307			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 2307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.6	10
1,1,2,2-Tetrachloroethane	ND		0.42	10
1,1,2-Trichloroethane	ND		0.46	10
1,1-Dichloroethane	0.91	J	0.76	10
1,1-Dichloroethene	ND		0.58	10
1,2-Dichloroethane	ND		0.42	10
1,2-Dichloropropane	ND		1.4	10
2-Hexanone	ND		2.5	20
Methyl ethyl ketone (MEK)	ND		2.6	20
Methyl isobutyl ketone (MIBK)	ND		4.2	20
Acetone	ND		6.0	20
Benzene	ND		0.82	10
Bromodichloromethane	ND		0.78	10
Bromoform	ND		0.52	10
Bromomethane	ND		1.4	10
Carbon disulfide	ND		0.38	10
Carbon tetrachloride	ND		0.54	10
Chlorobenzene	ND		1.5	10
Dibromochloromethane	ND		0.64	10
Chloroethane	ND		0.64	10
Chloroform	ND		0.68	10
Chloromethane	ND	UJ	0.70	10
cis-1,2-Dichloroethene	130		1.6	10
cis-1,3-Dichloropropene	ND		0.72	10
Dichlorodifluoromethane	ND	UJ	1.4	10
Ethylbenzene	ND		1.5	10
Methylene Chloride	ND		0.88	10
Styrene	ND		1.5	10
Tetrachloroethene	ND		0.72	10
Toluene	ND		1.0	10
trans-1,2-Dichloroethene	ND		1.8	10
trans-1,3-Dichloropropene	ND		0.74	10
Trichloroethene	82		0.92	10
Trichlorofluoromethane	ND		1.8	10
Vinyl chloride	ND		1.8	10
Xylenes, Total	ND		1.3	10
Vinyl acetate	ND		1.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	105		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-29

Lab Sample ID: 480-56496-6

Date Sampled: 03/18/2014 1630

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: 5030C
Dilution: 2.0
Analysis Date: 03/24/2014 1734
Prep Date: 03/24/2014 1734

Analysis Batch: 480-171470
Prep Batch: N/A
Instrument ID: HP5973S
Lab File ID: S36324.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.6	10
1,1,2,2-Tetrachloroethane	ND		0.42	10
1,1,2-Trichloroethane	ND		0.46	10
1,1-Dichloroethane	ND		0.76	10
1,1-Dichloroethene	ND		0.58	10
1,2-Dichloroethane	ND		0.42	10
1,2-Dichloropropane	ND		1.4	10
2-Hexanone	ND		2.5	20
Methyl ethyl ketone (MEK)	ND		2.6	20
Methyl isobutyl ketone (MIBK)	ND		4.2	20
Acetone	ND		6.0	20
Benzene	ND		0.82	10
Bromodichloromethane	ND		0.78	10
Bromoform	ND		0.52	10
Bromomethane	ND		1.4	10
Carbon disulfide	ND		0.38	10
Carbon tetrachloride	ND		0.54	10
Chlorobenzene	ND		1.5	10
Dibromochloromethane	ND		0.64	10
Chloroethane	ND		0.64	10
Chloroform	ND		0.68	10
Chloromethane	ND		0.70	10
cis-1,2-Dichloroethene	150		1.6	10
cis-1,3-Dichloropropene	ND		0.72	10
Dichlorodifluoromethane	ND	UJ	1.4	10
Ethylbenzene	ND		1.5	10
Methylene Chloride	ND		0.88	10
Styrene	ND		1.5	10
Tetrachloroethene	ND		0.72	10
Toluene	ND		1.0	10
trans-1,2-Dichloroethene	ND		1.8	10
trans-1,3-Dichloropropene	ND		0.74	10
Trichloroethene	ND		0.92	10
Trichlorofluoromethane	ND		1.8	10
Vinyl chloride	5.2	J	1.8	10
Xylenes, Total	ND		1.3	10
Vinyl acetate	ND		1.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
Toluene-d8 (Surr)	105		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-BR-05

Lab Sample ID: 480-56496-7

Date Sampled: 03/19/2014 1210

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36325.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1756			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1756				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND	UJ	0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: MW-BR-06

Lab Sample ID: 480-56496-8

Date Sampled: 03/18/2014 1500

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36326.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1817			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1817				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	4.5	J	0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND	UJ	0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	3.3	J	0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: DUPE

Lab Sample ID: 480-56496-9

Date Sampled: 03/18/2014 0000

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-171638	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36339.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 2329			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 2329				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		3.3	20
1,1,2,2-Tetrachloroethane	ND		0.84	20
1,1,2-Trichloroethane	ND		0.92	20
1,1-Dichloroethane	14	J	1.5	20
1,1-Dichloroethene	ND		1.2	20
1,2-Dichloroethane	ND		0.84	20
1,2-Dichloropropane	ND		2.9	20
2-Hexanone	ND		5.0	40
Methyl ethyl ketone (MEK)	ND		5.3	40
Methyl isobutyl ketone (MIBK)	ND		8.4	40
Acetone	13	J	12	40
Benzene	ND		1.6	20
Bromodichloromethane	ND		1.6	20
Bromoform	ND		1.0	20
Bromomethane	ND		2.8	20
Carbon disulfide	ND		0.76	20
Carbon tetrachloride	ND		1.1	20
Chlorobenzene	ND		3.0	20
Dibromochloromethane	ND		1.3	20
Chloroethane	ND		1.3	20
Chloroform	ND		1.4	20
Chloromethane	ND	UJ	1.4	20
cis-1,2-Dichloroethene	180		3.2	20
cis-1,3-Dichloropropene	ND		1.4	20
Dichlorodifluoromethane	ND	UJ	2.7	20
Ethylbenzene	ND		3.0	20
Methylene Chloride	ND		1.8	20
Styrene	ND		2.9	20
Tetrachloroethene	ND		1.4	20
Toluene	ND		2.0	20
trans-1,2-Dichloroethene	ND		3.6	20
trans-1,3-Dichloropropene	ND		1.5	20
Trichloroethene	9.1	J	1.8	20
Trichlorofluoromethane	ND		3.5	20
Vinyl chloride	ND		3.6	20
Xylenes, Total	ND		2.6	20
Vinyl acetate	ND		3.4	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	97		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-56496-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-56496-10

Date Sampled: 03/19/2014 0000

Client Matrix: Water

Date Received: 03/22/2014 0900

8260C Volatile Organic Compounds by GC/MS

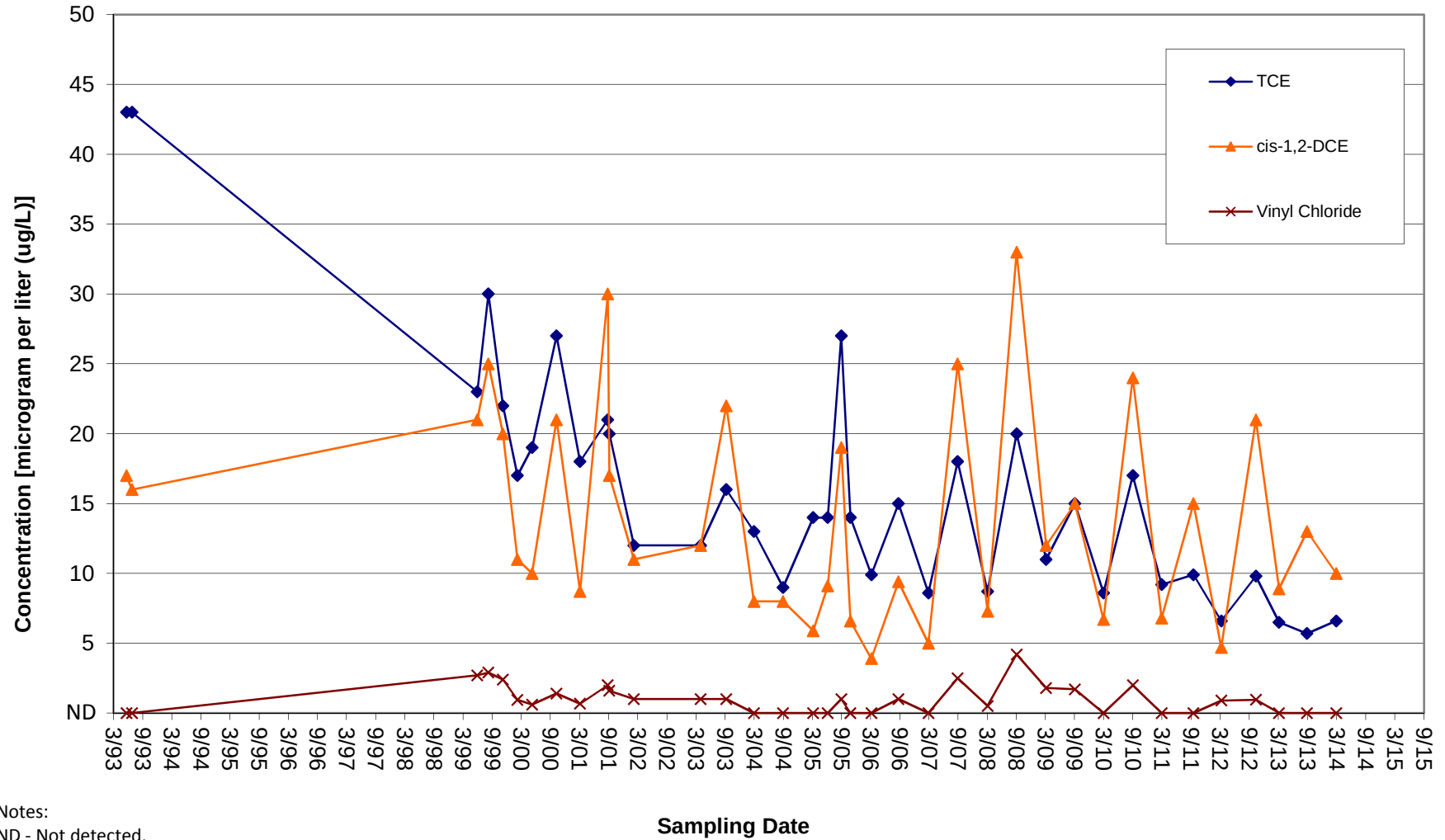
Analysis Method:	8260C	Analysis Batch:	480-171470	Instrument ID:	HP5973S
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	S36328.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/24/2014 1900			Final Weight/Volume:	5 mL
Prep Date:	03/24/2014 1900				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND	UJ	0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		66 - 137
Toluene-d8 (Surr)	104		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

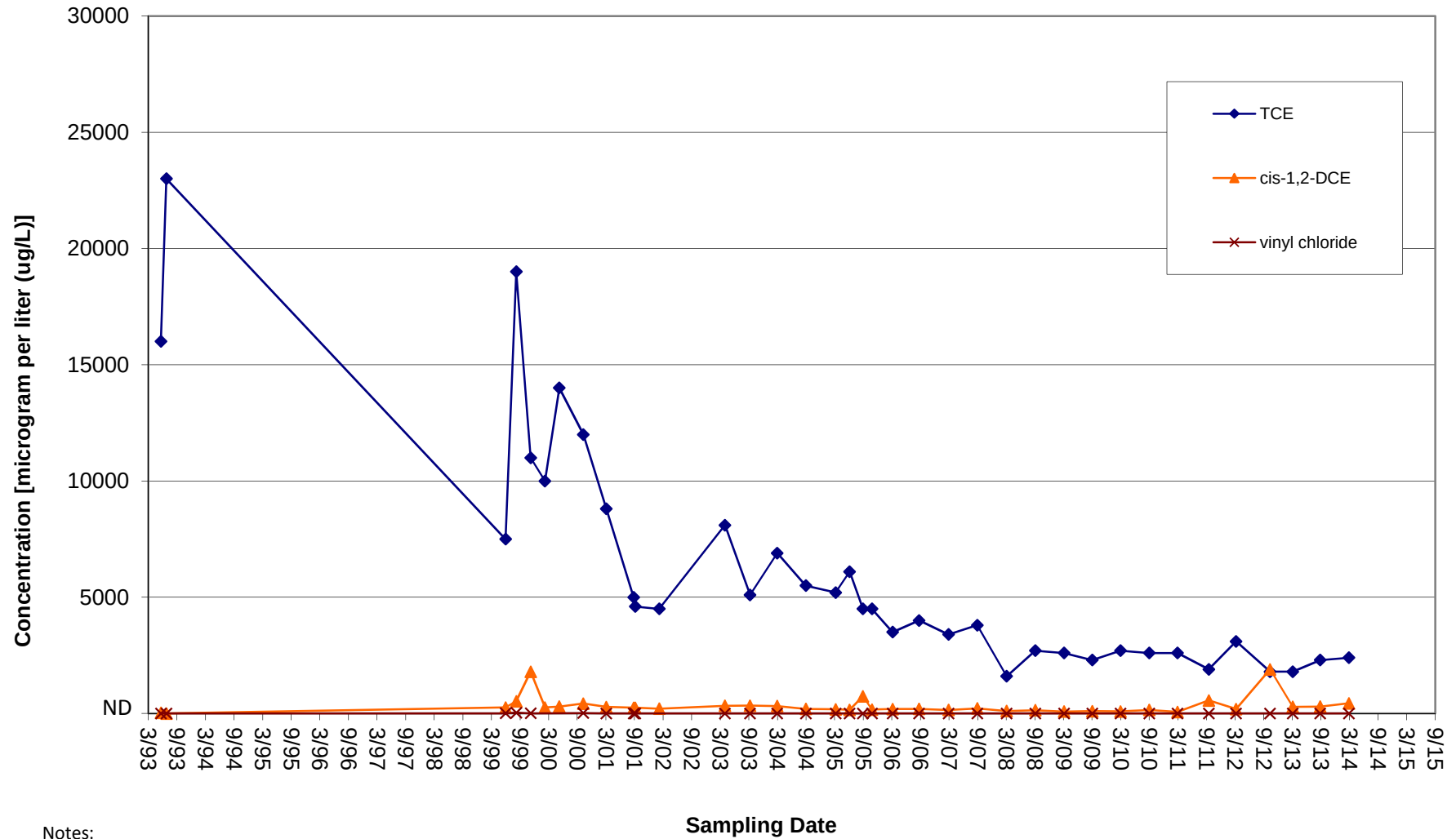
Attachment B
Analytical Graphs

MW-22



Notes:
 ND - Not detected.
 Reporting limit is 5 ug/L.
 Results less than the reporting limit are estimated.
 Volatile organic comopunds not shown were analyzed but not reported by the laboratory.

MW-23



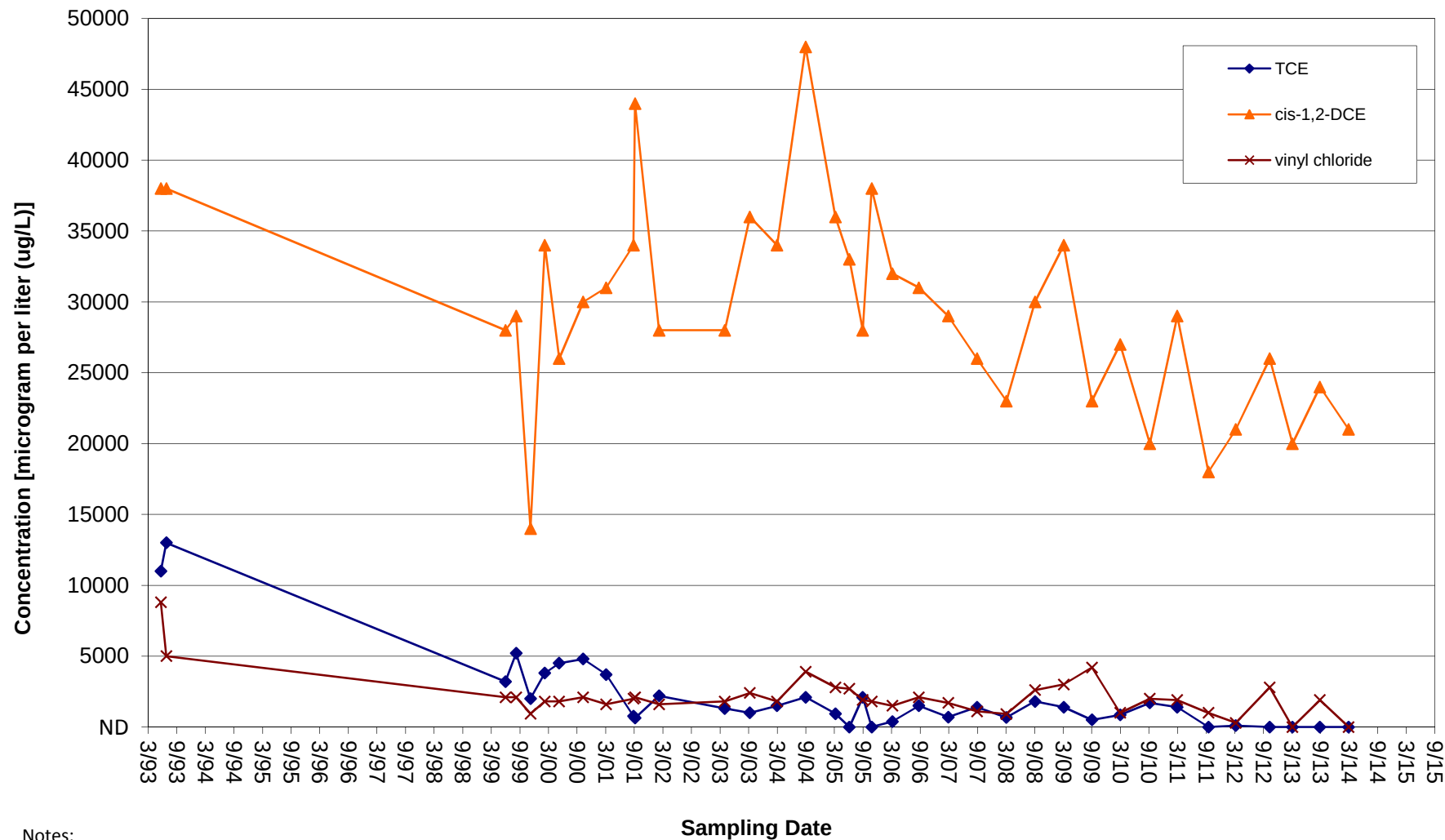
Notes:

ND - Not detected.

Reporting limit is variable.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.

MW-24



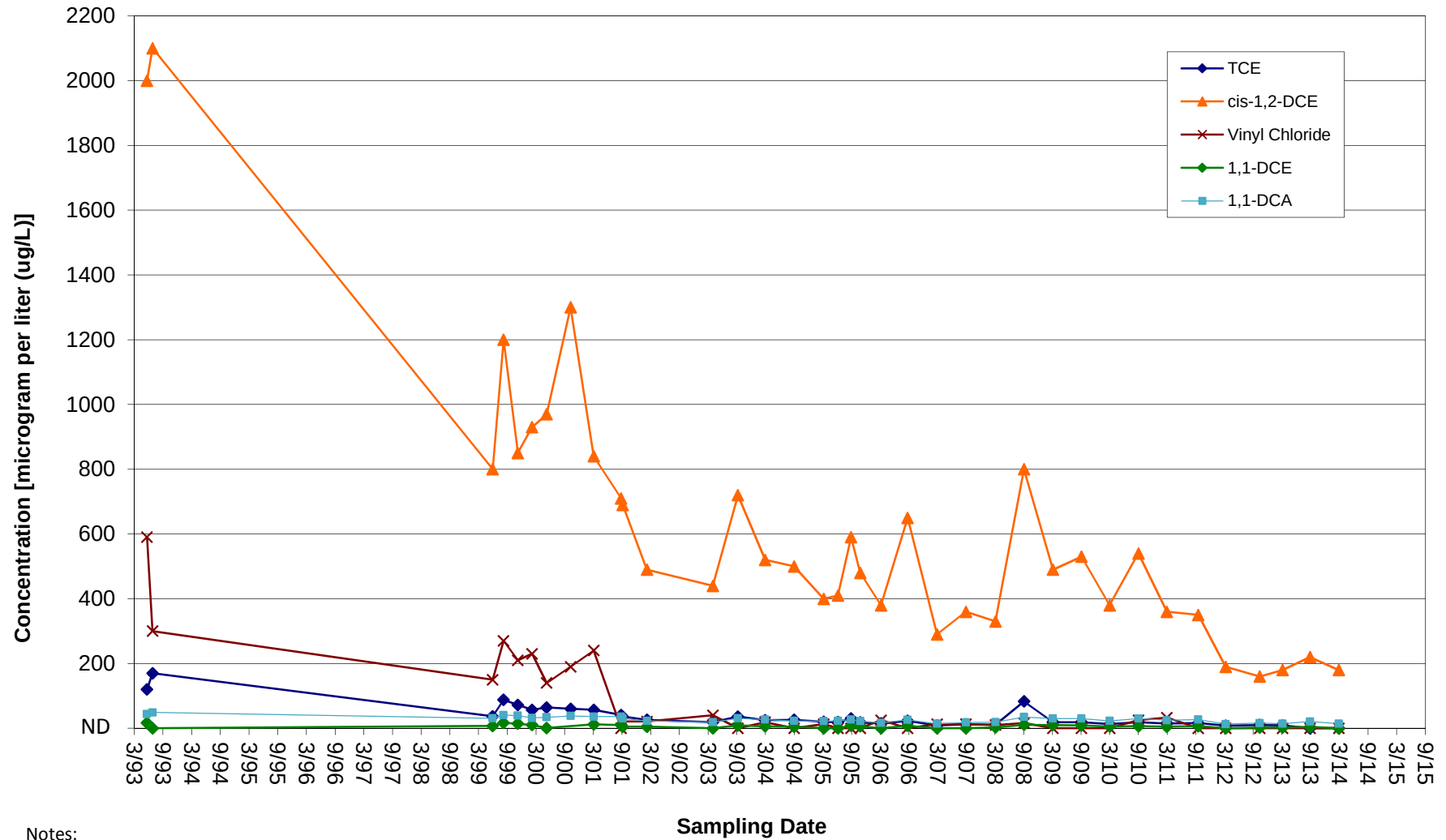
Notes:

ND - Not detected.

Reporting limit is variable.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.

MW-25



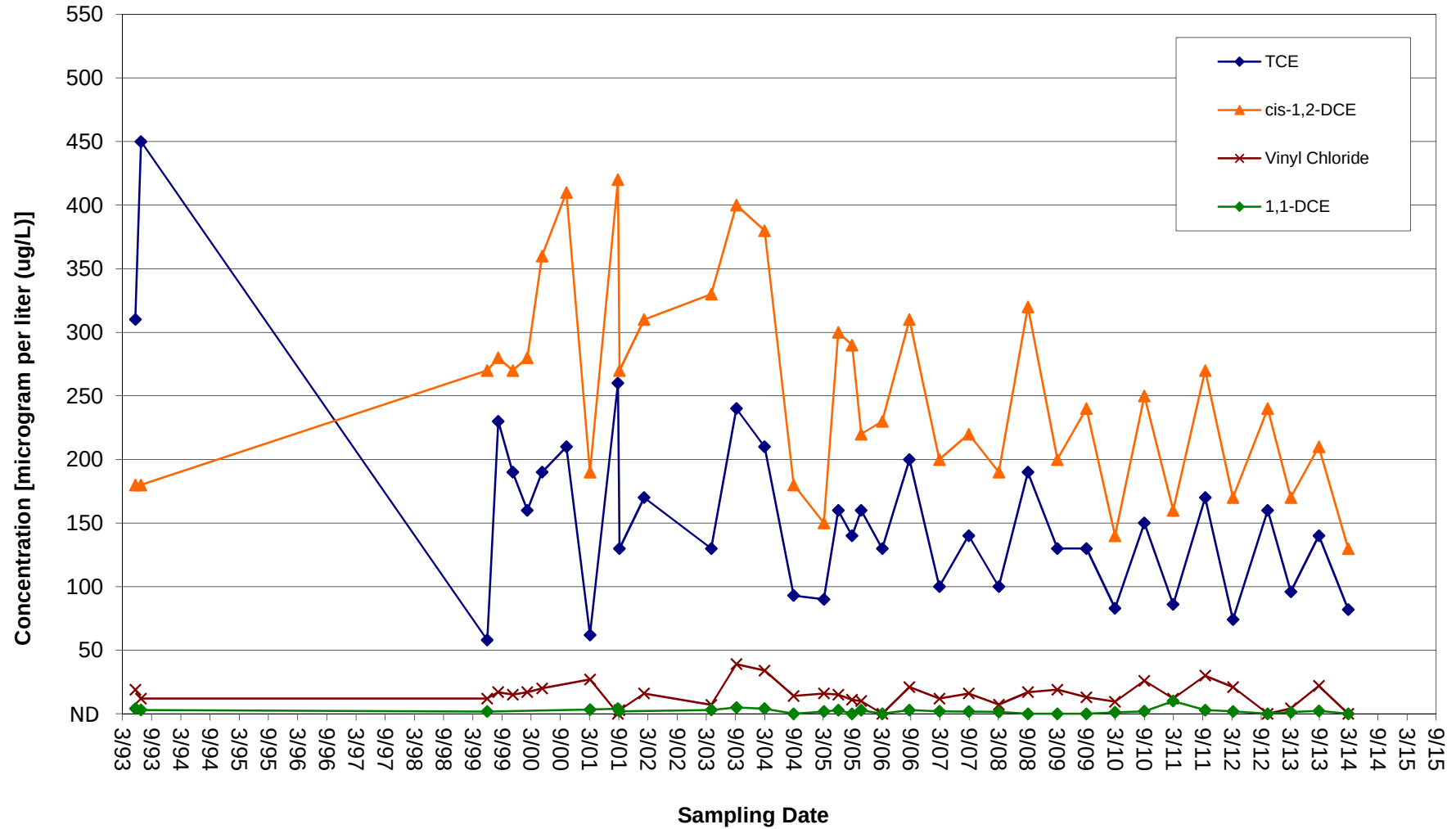
Notes:

ND - Not detected.

Reporting limit is variable.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.

MW-26



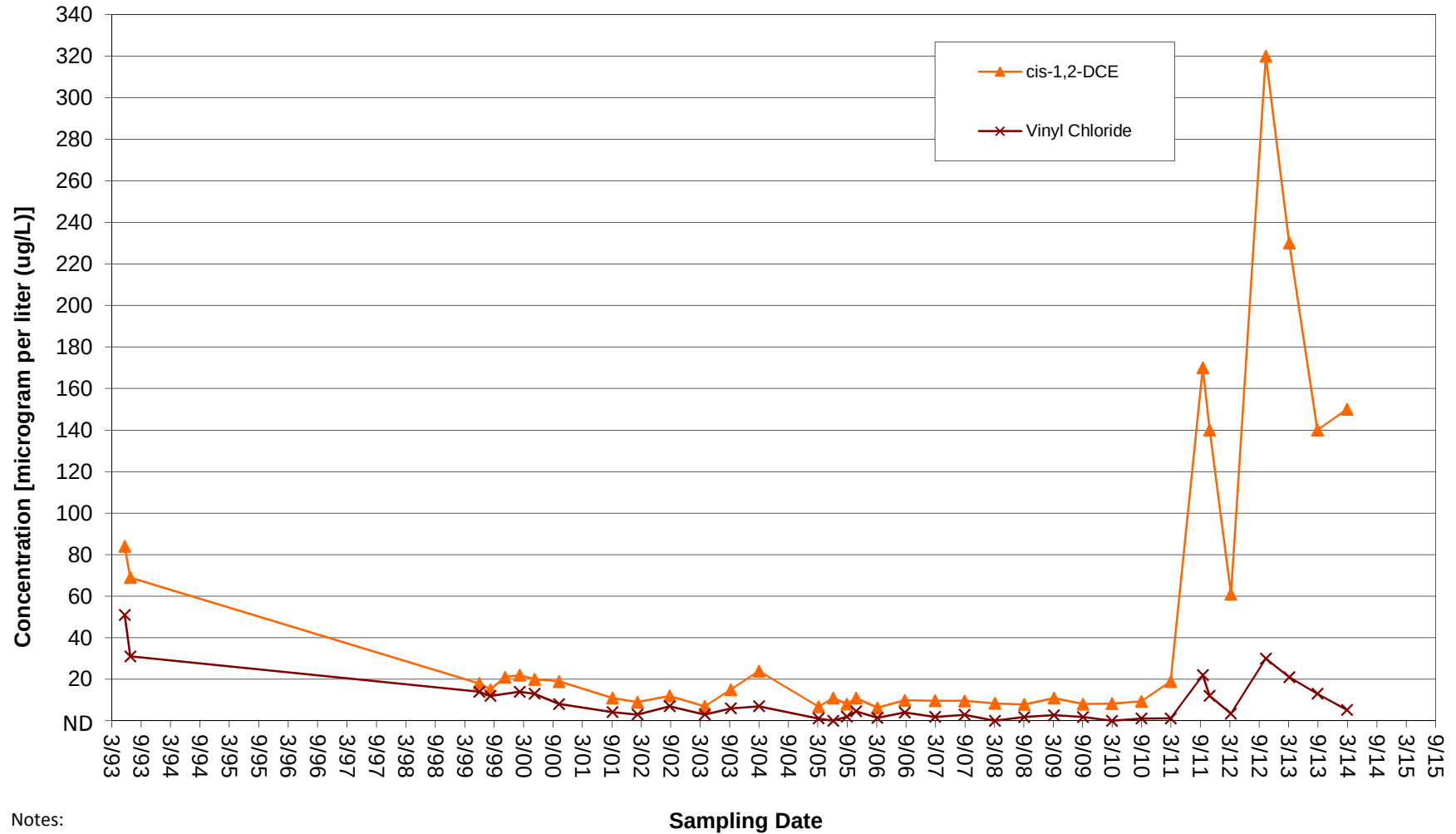
Notes:

ND - Not detected.

Reporting limit is variable.

Volatile organic comopunds not shown were analyzed but not reported by the laboratory.

MW-29



Notes:

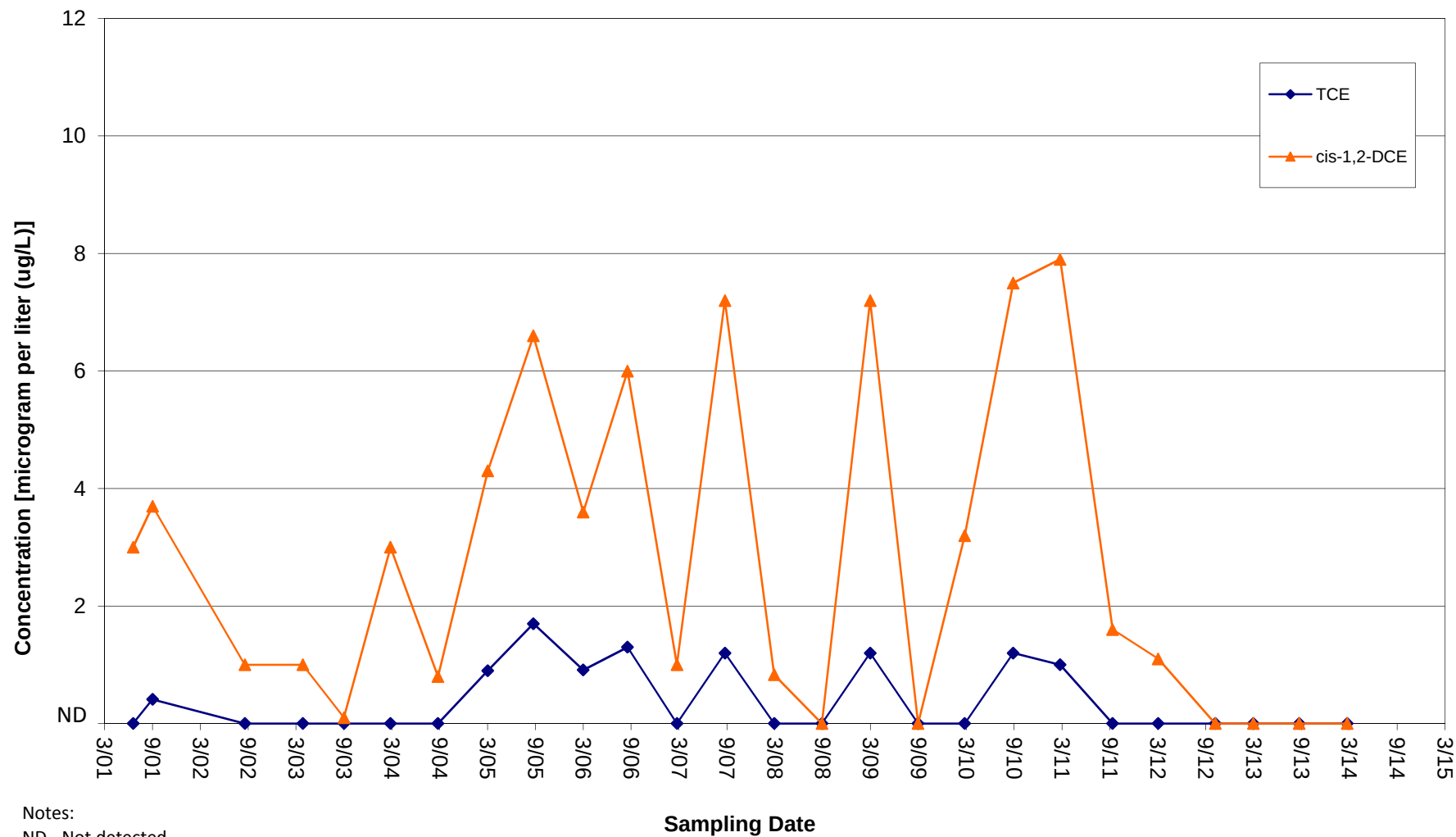
ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.

MW-BR-05



Notes:

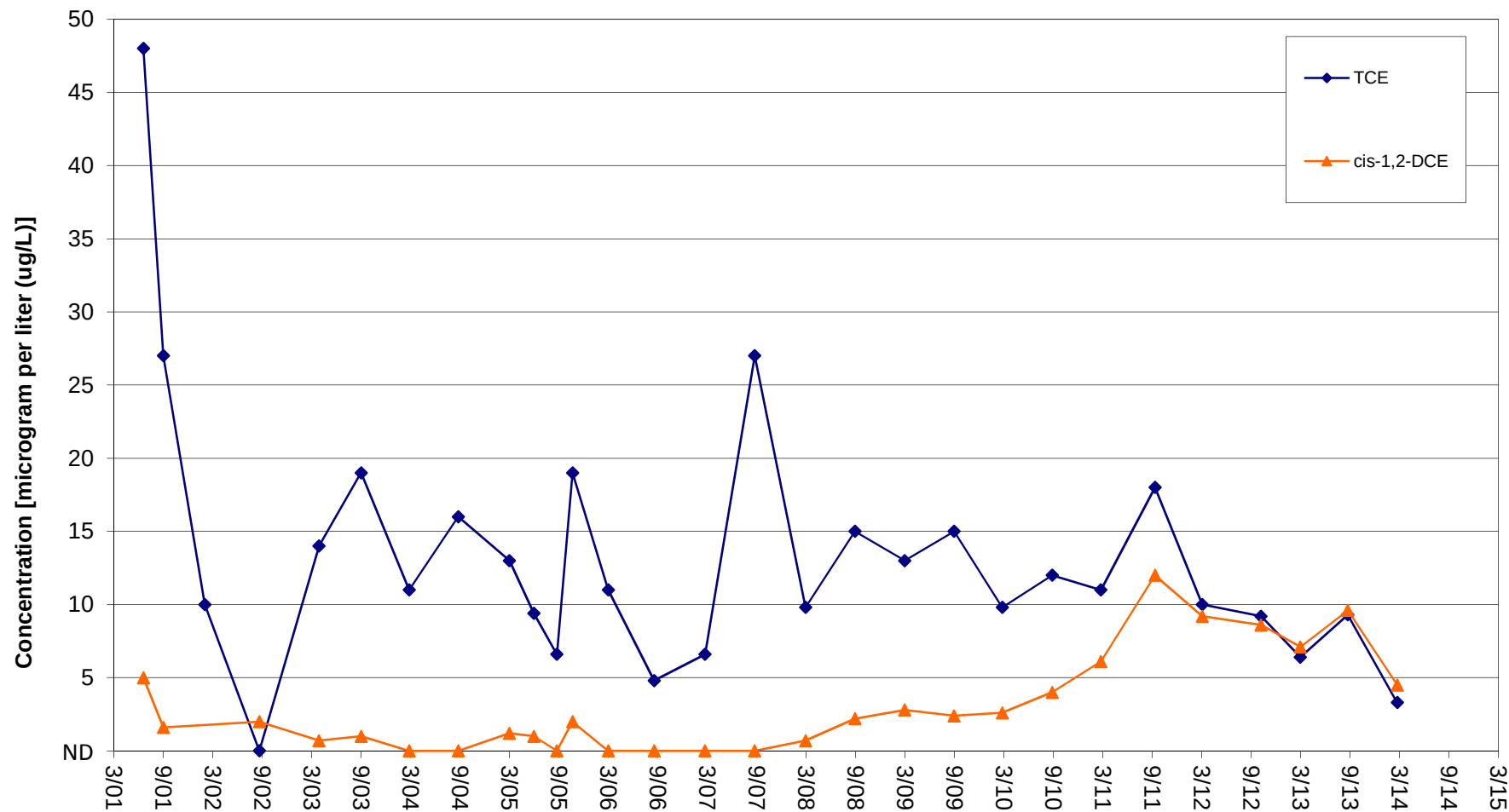
ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.

MW-BR-06



Notes:

ND - Not detected.

Reporting limit is 5 ug/L.

Results less than the reporting limit are estimated.

Volatile organic compounds not shown were analyzed but not reported by the laboratory.