New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 12th Floor
625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9620 • **Fax:** (518) 402-9627
Website: www.dec.ny.gov

MEMORANDUM

TO: FILE

FROM: Brian Jankauskas, PE

SUBJECT: **VOC Groundwater Sampling January 2020**

Site Name: Farmingdale Plaza Cleaners **Site Code:** 130107

City: Farmingdale **County:** Nassau

DATE: April 22, 2020

The Farmingdale Plaza Cleaners site is located in Farmingdale, New York. Groundwater monitoring was performed at the above-referenced site by the New York State Department of Environmental Conservation (NYSDEC) to assess current conditions within the off-site plume known as Plume B, which primarily consists of tetrachloroethene (PCE). Plume A is associated with the nearby Liberty Industrial Finishing site and primarily consists of trichloroethene (TCE). Contamination located within Plume A is presently being captured by a groundwater pump and treat system for the Liberty Industrial Finishing site.

A new well, identified as EW, was recently installed near monitoring well MW-47C. MW-47C is located down-gradient (south) of MW-28C and MW-28D and used to assess the migration of site contamination. Well EW was constructed to be an extraction well, see well construction log in Appendix A. Extraction well EW is presently not operational as a pump has not been installed into the well.

Figure 1 shows both sites, plumes A and B, extraction wells, and some of the monitoring wells. Plume A 2012 reflects 2012 TCE extents presented in the 2013 Remedial Investigation Report. Two years of Plume B data (2012 and 2017) is presented. Plume B 2012 reflects 2012 PCE extents presented in the 2013 Remedial Investigation Report. Plume B 2017 incorporates 2012 and 2017 PCE groundwater results to present plume extents representative of more recent conditions. The northern extent of Plume B was adjusted south based on groundwater concentrations from MW-48C, which were slightly above groundwater criteria. Details of the January 2020 groundwater sampling activities are presented below.

Groundwater Monitoring Procedures

A groundwater sampling event was performed to assess site contaminants from select wells, identified as MW-28C, MW-28D, and EW, within Plume B. On December 4, 2019, passive diffusion bags (PDB) were set within the well screen of each well to equilibrate. On January 2, 2020, the PDB were retrieved and their contents were poured into laboratory provided containers. Groundwater monitoring activities were performed in accordance with EPA Region 4 Groundwater Sampling Procedures, dated April 26, 2017.

Samples were provided to Test America Laboratories, Inc., a New York State Department of Health NELAP-certified laboratory. Samples were analyzed for volatile organic compounds by method 8260C. The laboratory results are included in Appendix B. Quality assurance/quality control (QA/QC) samples were also obtained to verify the quality of the sampling program. A duplicate and trip blank were collected during the sampling event.

Groundwater Monitoring Results

The analytical results are presented in Table 1. The highest PCE detection was 36 micrograms per liter (ug/l), which is above the groundwater standard of 5 ug/l, at MW-28D. The sample from MW-28C detected PCE at 35 ug/l. The concentration of PCE at the extraction well location was 2.9 ug/l, which is below the groundwater standard. The only other chemical detected above criteria was acetone, which could be due to laboratory methods.

The field duplicate had comparable results to the parent sample from well EW. The trip blank sampled showed one detection, which was an estimated value. Based on the review of the QA/QC samples and the laboratory narrative, the analytical results are usable for assessing groundwater conditions.

An evaluation of PCE trends at MW-28C and MW-28D indicates that the PCE results decreased from May 2018 and are more in line with historical concentrations, see Table 2 below. PCE concentrations are reducing and approaching the groundwater standard.

Table 2: PCE Trends at MW-28C and MW-28D from March 2012 to January 2020

Sample Date	MW-28C	MW-28D
March 2012	74 ug/l	78 ug/l
August 2015	48 ug/l	42 ug/l
April 2017	41 ug/l	36 ug/l
December 2017	20 ug/l	40 ug/l
May 2018	46 ug/l	60 ug/l
January 2020	35 ug/l	36 ug/l

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Legend

- Remediation Sites
- Monitoring Well
- Extraction Well
- Plume A 2012
- Plume B 2012
- Plume B 2017

well and plume extents are approximate

0 350 700 Feet

1 in = 700 feet

Figure 1: Plume Map
Farmingdale Plaza Cleaners - Farmingdale, NY
Site Number 130107

Table 1: Volatile Organic Compound Results - January 2, 2020
Farmingdale Plaza Cleaners - Farmingdale NY
Site Number 130107

Well ID		MW-28C		MW-28D		EW		EW			
Sample ID		MW-28C		MW-28D		EW		DUP		TB	
Chemical Name	Criteria	result	qualifiers	result	qualifiers	result	qualifiers	result	qualifiers	result	qualifiers
1,1,1-TRICHLOROETHANE	5	1.0	U	0.50	J	1.0	U	1.0	U	1.0	U
1,1,2,2-TETRACHLOROETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-TRICHLOROETHANE	1	1.0	U	0.76	J	1.0	U	1.0	U	1.0	U
1,1-DICHLOROETHANE	5	0.26	J	1.6		2.5		2.7		1.0	U
1,1-DICHLOROETHENE	5	1.0	U	0.90	J	1.0	U	0.36	J	1.0	U
1,2,3-TRICHLOROBENZENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,4-TRICHLOROBENZENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.0006	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-DICHLOROBENZENE	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-DICHLOROETHANE	0.6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-DICHLOROPROPANE	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,3-DICHLOROBENZENE	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-DICHLOROBENZENE	3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
2-HEXANONE	50	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
ACETONE	50	54		14		39		38		5.0	U
BENZENE	1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BROMOCHLOROMETHANE	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BROMODICHLOROMETHANE	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BROMOFORM	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
BROMOMETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CARBON DISULFIDE	60	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CARBON TETRACHLORIDE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHLOROBENZENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHLOROETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CHLOROFORM	7	1.0	U	0.66	J	1.0	U	1.0	U	1.0	U
CHLOROMETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Cis-1,2-Dichloroethylene	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CIS-1,3-DICHLOROPROPENE	0.4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
CYCLOHEXANE	NC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
DIBROMOCHLOROMETHANE	50	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
DICHLORODIFLUOROMETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
ETHYLBENZENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Isopropylbenzene (Cumene)	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
M,P-XYLENES	5	1.0	U	1.0	U	0.50	J	0.51	J	1.0	U
METHYL ACETATE	NC	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
METHYL ETHYL KETONE (2-BUTANONE)	50	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	NC	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
METHYLCYCLOHEXANE	NC	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
METHYLENE CHLORIDE	5	1.0	U	1.0	U	1.0	U	1.0	U	0.36	J
O-XYLENE (1,2-DIMETHYLBENZENE)	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
STYRENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
TERT-BUTYL METHYL ETHER	10	2.6		1.0	U	8.1		8.0		1.0	U
TETRACHLOROETHYLENE(PCE)	5	35		36		2.3		2.9		1.0	U
TOLUENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
TRANS-1,2-DICHLOROETHENE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
TRANS-1,3-DICHLOROPROPENE	0.4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
TRICHLOROETHYLENE (TCE)	5	1.3		1.0	U	1.0	U	0.46	J	1.0	U
TRICHLOROFLUOROMETHANE	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
VINYL CHLORIDE	2	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Notes:
Groundwater Standards are from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1)
highlighted results exceed groundwater criteria
NC: No Criteria
ug/l: micrograms per liter
U: not detected above the level of the associated quantitation limit.
J: positively identified, numerical value is an approximate concentration.

Appendix A

225 Atlantic Avenue
Patchogue, NY 11772
Office: 631.447.6400
Fax: 631.447.6497
Toll-Free: 1.888.EAR.6789
E-mail: info@enviro-asmnt.com
www.Enviro-Asmnt.com

Installation Date 12/11-18/2018

DRILLING LOG - Monitoring Well Installation

DRILLING DETAILS

PROJECT/SITE NAME	Farmingdale Plaza Cleaners
SITE ADDRESS	450 Main St.
	Farmingdale, NY
SITE ID NUMBER	130107
WELL ID	Extraction Well
DRILLING METHOD	Mud Rotary
DRILLING COMPANY	AARCO
HEAD DRILLER	T. Kelly
LOGGED BY	J. Lohan
BOREHOLE DIAMETER	12"
SAMPLE METHOD	NA
DEPTH-TO-WATER	15.11'
TOTAL WELL DEPTH	147.5'

WELL CONSTRUCTION

CASING Type Sch 40 Steel Diameter 6" Length 127.5'

SCREEN Type 304 S/S Diameter 6" Slot 0.030 Length 20'

GRAVEL PACK #3 Sand (0.5'-5' & 126'-149' BGS), #00 Sand (122'-126' BGS)

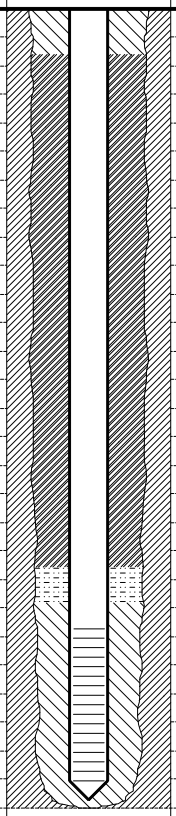
CASING SEAL Grout (5'-117' BGS) Bentonite (117'-122' BGS)

SECURITY 12"X10" Steel Bolt-Down Manhole Cover and 6" J-Plug.

FINISH 2.5'x2.5' Concrete Pad

COMMENTS Extraction Well is 12.9' S of N curb of Tomes Ave, 38.9' W of E curb of Tomes Ave, and 26' N of S curb of Tomes Ave.

Depth Below Grade	Well Design	Soil Lithology/Field Observations					
		Depth	Description/Classification	Sample Type	Screening Interval	PID Reading	Percent Recovery
		0'-147.5'	Mud rotary, no lithology logged.	-	-	-	-
15.11'							
TWD 147.5'							



Backfill/Gravel Bentonite Grout

Appendix B

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ANALYTICAL REPORT

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

Laboratory Job ID: 460-200079-1
Client Project/Site: DEC-Farmingdale480; Site: 130107

For:
New York State D.E.C.
625 Broadway 9th Floor
Albany, New York 12233-7258

Attn: Mr. Brian Jankauskas

Authorized for release by:
1/8/2020 3:46:56 PM

Julie Gilmore, Project Manager I
(484)685-0865
julie.gilmore@testamericainc.com

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

Glossary

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

Job ID: 460-200079-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC-Farmingdale480; Site: 130107

Report Number: 460-200079-1

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

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

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

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

RECEIPT

The samples were received on 01/04/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.6 C.

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

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TB-122020 (460-200079-1), EW-122020 (460-200079-2), DUP-122020 (460-200079-3), MW-28C-122020 (460-200079-4) and MW-28D-122020 (460-200079-5) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 01/07/2020.

The continuing calibration verification (CCV) analyzed in batch 460-666683 was outside the method criteria for the following analyte(s): Bromoform. The minimum response factor for Dichlorodifluoromethane was below required control limit. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: TB-122020 — Lab Sample ID: 460-200079-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.36	J	1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: EW-122020 — Lab Sample ID: 460-200079-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.5		1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	39		5.0	4.4	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	8.1		1.0	0.47	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.50	J	1.0	0.30	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.3		1.0	0.25	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-122020 — Lab Sample ID: 460-200079-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.7		1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.36	J	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	38		5.0	4.4	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	8.0		1.0	0.47	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.51	J	1.0	0.30	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.9		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	0.46	J	1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: MW-28C-122020 — Lab Sample ID: 460-200079-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.26	J	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	54		5.0	4.4	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.6		1.0	0.47	ug/L	1		8260C	Total/NA
Tetrachloroethene	35		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	1.3		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: MW-28D-122020 — Lab Sample ID: 460-200079-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.50	J	1.0	0.24	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.76	J	1.0	0.43	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.6		1.0	0.26	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.90	J	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	14		5.0	4.4	ug/L	1		8260C	Total/NA
Chloroform	0.66	J	1.0	0.33	ug/L	1		8260C	Total/NA
Tetrachloroethene	36		1.0	0.25	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: TB-122020
Lab Sample ID: 460-200079-1
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/07/20 02:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/07/20 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:08	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/07/20 02:08	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/07/20 02:08	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/07/20 02:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/07/20 02:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/07/20 02:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/07/20 02:08	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:08	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/07/20 02:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/07/20 02:08	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/07/20 02:08	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/07/20 02:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/07/20 02:08	1
Acetone	5.0	U	5.0	4.4	ug/L			01/07/20 02:08	1
Benzene	1.0	U	1.0	0.20	ug/L			01/07/20 02:08	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/07/20 02:08	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/07/20 02:08	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/07/20 02:08	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/07/20 02:08	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/07/20 02:08	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/07/20 02:08	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/07/20 02:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:08	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/07/20 02:08	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/07/20 02:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/07/20 02:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/07/20 02:08	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/07/20 02:08	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/07/20 02:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:08	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/07/20 02:08	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/07/20 02:08	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:08	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/07/20 02:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/07/20 02:08	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/07/20 02:08	1
Methylene Chloride	**0.36**	**J**	1.0	0.32	ug/L			01/07/20 02:08	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/07/20 02:08	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/07/20 02:08	1
Styrene	1.0	U	1.0	0.42	ug/L			01/07/20 02:08	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/07/20 02:08	1
Toluene	1.0	U	1.0	0.38	ug/L			01/07/20 02:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/07/20 02:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/07/20 02:08	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/07/20 02:08	1

Client Sample ID: TB-122020
Lab Sample ID: 460-200079-1
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:08	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/07/20 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*74 - 132*		*01/07/20 02:08*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*01/07/20 02:08*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/07/20 02:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*01/07/20 02:08*	*1*

Client Sample ID: EW-122020
Lab Sample ID: 460-200079-2
Date Collected: 01/02/20 15:50
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/07/20 02:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/07/20 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:31	1
1,1-Dichloroethane	**2.5**		1.0	0.26	ug/L			01/07/20 02:31	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/07/20 02:31	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/07/20 02:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/07/20 02:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/07/20 02:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/07/20 02:31	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:31	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/07/20 02:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/07/20 02:31	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/07/20 02:31	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/07/20 02:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/07/20 02:31	1
Acetone	**39**		5.0	4.4	ug/L			01/07/20 02:31	1
Benzene	1.0	U	1.0	0.20	ug/L			01/07/20 02:31	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/07/20 02:31	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/07/20 02:31	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/07/20 02:31	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/07/20 02:31	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/07/20 02:31	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/07/20 02:31	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/07/20 02:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:31	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/07/20 02:31	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/07/20 02:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/07/20 02:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/07/20 02:31	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/07/20 02:31	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/07/20 02:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:31	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/07/20 02:31	1

Client Sample ID: EW-122020
Lab Sample ID: 460-200079-2

Date Collected: 01/02/20 15:50
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/07/20 02:31	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:31	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/07/20 02:31	1
Methyl tert-butyl ether	**8.1**		1.0	0.47	ug/L			01/07/20 02:31	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/07/20 02:31	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/07/20 02:31	1
m-Xylene & p-Xylene	**0.50**	**J**	1.0	0.30	ug/L			01/07/20 02:31	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/07/20 02:31	1
Styrene	1.0	U	1.0	0.42	ug/L			01/07/20 02:31	1
Tetrachloroethene	**2.3**		1.0	0.25	ug/L			01/07/20 02:31	1
Toluene	1.0	U	1.0	0.38	ug/L			01/07/20 02:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/07/20 02:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/07/20 02:31	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/07/20 02:31	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:31	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/07/20 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*74 - 132*		*01/07/20 02:31*	*1*
4-Bromofluorobenzene	*115*		*77 - 124*		*01/07/20 02:31*	*1*
Dibromofluoromethane (Surr)	*117*		*72 - 131*		*01/07/20 02:31*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*01/07/20 02:31*	*1*

Client Sample ID: DUP-122020
Lab Sample ID: 460-200079-3

Date Collected: 01/02/20 00:00
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/07/20 02:53	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/07/20 02:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:53	1
1,1-Dichloroethane	**2.7**		1.0	0.26	ug/L			01/07/20 02:53	1
1,1-Dichloroethene	**0.36**	**J**	1.0	0.26	ug/L			01/07/20 02:53	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/07/20 02:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/07/20 02:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/07/20 02:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/07/20 02:53	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 02:53	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/07/20 02:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/07/20 02:53	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/07/20 02:53	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/07/20 02:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/07/20 02:53	1
Acetone	**38**		5.0	4.4	ug/L			01/07/20 02:53	1
Benzene	1.0	U	1.0	0.20	ug/L			01/07/20 02:53	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/07/20 02:53	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/07/20 02:53	1

Client Sample ID: DUP-122020
Lab Sample ID: 460-200079-3

Date Collected: 01/02/20 00:00
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/07/20 02:53	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/07/20 02:53	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/07/20 02:53	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/07/20 02:53	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/07/20 02:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:53	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/07/20 02:53	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/07/20 02:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/07/20 02:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/07/20 02:53	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/07/20 02:53	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/07/20 02:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/07/20 02:53	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/07/20 02:53	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/07/20 02:53	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/07/20 02:53	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/07/20 02:53	1
Methyl tert-butyl ether	**8.0**		1.0	0.47	ug/L			01/07/20 02:53	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/07/20 02:53	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/07/20 02:53	1
m-Xylene & p-Xylene	**0.51**	**J**	1.0	0.30	ug/L			01/07/20 02:53	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/07/20 02:53	1
Styrene	1.0	U	1.0	0.42	ug/L			01/07/20 02:53	1
Tetrachloroethene	**2.9**		1.0	0.25	ug/L			01/07/20 02:53	1
Toluene	1.0	U	1.0	0.38	ug/L			01/07/20 02:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/07/20 02:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/07/20 02:53	1
Trichloroethene	**0.46**	**J**	1.0	0.31	ug/L			01/07/20 02:53	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/07/20 02:53	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/07/20 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*74 - 132*		*01/07/20 02:53*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*01/07/20 02:53*	*1*
Dibromofluoromethane (Surr)	*113*		*72 - 131*		*01/07/20 02:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*01/07/20 02:53*	*1*

Client Sample ID: MW-28C-122020
Lab Sample ID: 460-200079-4

Date Collected: 01/02/20 16:10
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/07/20 03:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/07/20 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/07/20 03:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 03:16	1
1,1-Dichloroethane	**0.26**	**J**	1.0	0.26	ug/L			01/07/20 03:16	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/07/20 03:16	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/07/20 03:16	1

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: MW-28C-122020
Lab Sample ID: 460-200079-4
Date Collected: 01/02/20 16:10
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/07/20 03:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/07/20 03:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/07/20 03:16	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 03:16	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/07/20 03:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/07/20 03:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/07/20 03:16	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/07/20 03:16	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/07/20 03:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/07/20 03:16	1
Acetone	**54**		5.0	4.4	ug/L			01/07/20 03:16	1
Benzene	1.0	U	1.0	0.20	ug/L			01/07/20 03:16	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/07/20 03:16	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/07/20 03:16	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/07/20 03:16	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/07/20 03:16	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/07/20 03:16	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/07/20 03:16	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/07/20 03:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/07/20 03:16	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/07/20 03:16	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/07/20 03:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/07/20 03:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/07/20 03:16	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/07/20 03:16	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/07/20 03:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/07/20 03:16	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/07/20 03:16	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/07/20 03:16	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/07/20 03:16	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/07/20 03:16	1
Methyl tert-butyl ether	**2.6**		1.0	0.47	ug/L			01/07/20 03:16	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/07/20 03:16	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/07/20 03:16	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/07/20 03:16	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/07/20 03:16	1
Styrene	1.0	U	1.0	0.42	ug/L			01/07/20 03:16	1
Tetrachloroethene	**35**		1.0	0.25	ug/L			01/07/20 03:16	1
Toluene	1.0	U	1.0	0.38	ug/L			01/07/20 03:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/07/20 03:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/07/20 03:16	1
Trichloroethene	**1.3**		1.0	0.31	ug/L			01/07/20 03:16	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/07/20 03:16	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/07/20 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*74 - 132*		*01/07/20 03:16*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*01/07/20 03:16*	*1*
Dibromofluoromethane (Surr)	*111*		*72 - 131*		*01/07/20 03:16*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/07/20 03:16*	*1*

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: MW-28D-122020
Lab Sample ID: 460-200079-5
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.50**	**J**	1.0	0.24	ug/L			01/07/20 03:38	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/07/20 03:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/07/20 03:38	1
1,1,2-Trichloroethane	**0.76**	**J**	1.0	0.43	ug/L			01/07/20 03:38	1
1,1-Dichloroethane	**1.6**		1.0	0.26	ug/L			01/07/20 03:38	1
1,1-Dichloroethene	**0.90**	**J**	1.0	0.26	ug/L			01/07/20 03:38	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/07/20 03:38	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/07/20 03:38	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/07/20 03:38	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/07/20 03:38	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/07/20 03:38	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/07/20 03:38	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/07/20 03:38	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/07/20 03:38	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/07/20 03:38	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/07/20 03:38	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/07/20 03:38	1
Acetone	**14**		5.0	4.4	ug/L			01/07/20 03:38	1
Benzene	1.0	U	1.0	0.20	ug/L			01/07/20 03:38	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/07/20 03:38	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/07/20 03:38	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/07/20 03:38	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/07/20 03:38	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/07/20 03:38	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/07/20 03:38	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/07/20 03:38	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/07/20 03:38	1
Chloroform	**0.66**	**J**	1.0	0.33	ug/L			01/07/20 03:38	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/07/20 03:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/07/20 03:38	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/07/20 03:38	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/07/20 03:38	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/07/20 03:38	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/07/20 03:38	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/07/20 03:38	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/07/20 03:38	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/07/20 03:38	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/07/20 03:38	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/07/20 03:38	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/07/20 03:38	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/07/20 03:38	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/07/20 03:38	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/07/20 03:38	1
Styrene	1.0	U	1.0	0.42	ug/L			01/07/20 03:38	1
Tetrachloroethene	**36**		1.0	0.25	ug/L			01/07/20 03:38	1
Toluene	1.0	U	1.0	0.38	ug/L			01/07/20 03:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/07/20 03:38	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/07/20 03:38	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/07/20 03:38	1

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: MW-28D-122020
Lab Sample ID: 460-200079-5
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/07/20 03:38	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/07/20 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*01/07/20 03:38*	*1*
4-Bromofluorobenzene	*103*		*77 - 124*		*01/07/20 03:38*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/07/20 03:38*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*01/07/20 03:38*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: DEC-Farmingdale480; Site: 130107

Job ID: 460-200079-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(72-131)	(80-120)
460-200079-1	TB-122020	118	105	108	103
460-200079-2	EW-122020	127	115	117	111
460-200079-3	DUP-122020	122	107	113	104
460-200079-4	MW-28C-122020	120	106	111	105
460-200079-5	MW-28D-122020	115	103	108	101
LCS 460-666683/4	Lab Control Sample	114	105	108	102
LCSD 460-666683/5	Lab Control Sample Dup	116	105	111	103
MB 460-666683/9	Method Blank	117	105	108	102

Surrogate Legend

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

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

Lab Sample ID: MB 460-666683/9
Matrix: Water
Analysis Batch: 666683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			01/06/20 21:35	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			01/06/20 21:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			01/06/20 21:35	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			01/06/20 21:35	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			01/06/20 21:35	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			01/06/20 21:35	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			01/06/20 21:35	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			01/06/20 21:35	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			01/06/20 21:35	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			01/06/20 21:35	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			01/06/20 21:35	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			01/06/20 21:35	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			01/06/20 21:35	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			01/06/20 21:35	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			01/06/20 21:35	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			01/06/20 21:35	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			01/06/20 21:35	1
Acetone	5.0	U	5.0	4.4	ug/L			01/06/20 21:35	1
Benzene	1.0	U	1.0	0.20	ug/L			01/06/20 21:35	1
Bromoform	1.0	U	1.0	0.54	ug/L			01/06/20 21:35	1
Bromomethane	1.0	U	1.0	0.55	ug/L			01/06/20 21:35	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			01/06/20 21:35	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			01/06/20 21:35	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			01/06/20 21:35	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			01/06/20 21:35	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			01/06/20 21:35	1
Chloroethane	1.0	U	1.0	0.32	ug/L			01/06/20 21:35	1
Chloroform	1.0	U	1.0	0.33	ug/L			01/06/20 21:35	1
Chloromethane	1.0	U	1.0	0.40	ug/L			01/06/20 21:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			01/06/20 21:35	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			01/06/20 21:35	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			01/06/20 21:35	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			01/06/20 21:35	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			01/06/20 21:35	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			01/06/20 21:35	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			01/06/20 21:35	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			01/06/20 21:35	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			01/06/20 21:35	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			01/06/20 21:35	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			01/06/20 21:35	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			01/06/20 21:35	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			01/06/20 21:35	1
o-Xylene	1.0	U	1.0	0.36	ug/L			01/06/20 21:35	1
Styrene	1.0	U	1.0	0.42	ug/L			01/06/20 21:35	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			01/06/20 21:35	1
Toluene	1.0	U	1.0	0.38	ug/L			01/06/20 21:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			01/06/20 21:35	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			01/06/20 21:35	1

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

Lab Sample ID: MB 460-666683/9
Matrix: Water
Analysis Batch: 666683

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.31	ug/L			01/06/20 21:35	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			01/06/20 21:35	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			01/06/20 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*74 - 132*		*01/06/20 21:35*	*1*
4-Bromofluorobenzene	*105*		*77 - 124*		*01/06/20 21:35*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*01/06/20 21:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*01/06/20 21:35*	*1*

Lab Sample ID: LCS 460-666683/4
Matrix: Water
Analysis Batch: 666683

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	17.5		ug/L		87	75 - 125
1,1,2,2-Tetrachloroethane	20.0	18.7		ug/L		93	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	16.9		ug/L		85	59 - 150
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	78 - 120
1,1-Dichloroethane	20.0	18.6		ug/L		93	77 - 123
1,1-Dichloroethene	20.0	17.9		ug/L		89	74 - 123
1,2,3-Trichlorobenzene	20.0	18.0		ug/L		90	78 - 131
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/L		93	55 - 134
1,2-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120
1,2-Dichloroethane	20.0	20.1		ug/L		100	76 - 121
1,2-Dichloropropane	20.0	18.6		ug/L		93	77 - 123
1,3-Dichlorobenzene	20.0	17.6		ug/L		88	80 - 120
1,4-Dichlorobenzene	20.0	17.4		ug/L		87	80 - 120
2-Butanone (MEK)	100	87.7		ug/L		88	64 - 120
2-Hexanone	100	81.4		ug/L		81	71 - 125
4-Methyl-2-pentanone (MIBK)	100	88.3		ug/L		88	78 - 124
Acetone	100	99.2		ug/L		99	39 - 150
Benzene	20.0	18.1		ug/L		91	77 - 121
Bromoform	20.0	15.5		ug/L		77	53 - 120
Bromomethane	20.0	19.7		ug/L		99	10 - 150
Carbon disulfide	20.0	17.4		ug/L		87	69 - 133
Carbon tetrachloride	20.0	15.5		ug/L		78	70 - 132
Chlorobenzene	20.0	17.0		ug/L		85	80 - 120
Chlorobromomethane	20.0	18.7		ug/L		93	77 - 127
Chlorodibromomethane	20.0	17.7		ug/L		88	73 - 120
Chloroethane	20.0	19.4		ug/L		97	52 - 150
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	17.4		ug/L		87	56 - 131
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 120
cis-1,3-Dichloropropene	20.0	17.2		ug/L		86	77 - 120
Cyclohexane	20.0	16.5		ug/L		83	56 - 150
Dichlorobromomethane	20.0	18.9		ug/L		95	76 - 120

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

Lab Sample ID: LCS 460-666683/4
Matrix: Water
Analysis Batch: 666683

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dichlorodifluoromethane			20.0	13.6		ug/L		68	50 - 131		
Ethylbenzene			20.0	17.2		ug/L		86	80 - 120		
Ethylene Dibromide			20.0	18.4		ug/L		92	80 - 120		
Isopropylbenzene			20.0	16.9		ug/L		85	80 - 123		
Methyl acetate			40.0	37.2		ug/L		93	66 - 144		
Methyl tert-butyl ether			20.0	19.1		ug/L		95	79 - 122		
Methylcyclohexane			20.0	15.9		ug/L		79	61 - 145		
Methylene Chloride			20.0	19.2		ug/L		96	77 - 123		
m-Xylene & p-Xylene			20.0	16.4		ug/L		82	80 - 120		
o-Xylene			20.0	17.6		ug/L		88	80 - 120		
Styrene			20.0	17.3		ug/L		87	80 - 120		
Tetrachloroethene			20.0	17.3		ug/L		87	78 - 122		
Toluene			20.0	17.1		ug/L		85	80 - 120		
trans-1,2-Dichloroethene			20.0	18.3		ug/L		92	79 - 120		
trans-1,3-Dichloropropene			20.0	16.7		ug/L		84	76 - 120		
Trichloroethene			20.0	17.2		ug/L		86	77 - 120		
Trichlorofluoromethane			20.0	19.1		ug/L		96	71 - 143		
Vinyl chloride			20.0	18.6		ug/L		93	62 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*74 - 132*
4-Bromofluorobenzene	*105*		*77 - 124*
Dibromofluoromethane (Surr)	*108*		*72 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCSD 460-666683/5
Matrix: Water
Analysis Batch: 666683

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	17.2		ug/L		86	75 - 125	1	30
1,1,2,2-Tetrachloroethane			20.0	17.9		ug/L		90	74 - 120	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	16.7		ug/L		83	59 - 150	1	30
1,1,2-Trichloroethane			20.0	18.6		ug/L		93	78 - 120	1	30
1,1-Dichloroethane			20.0	18.4		ug/L		92	77 - 123	1	30
1,1-Dichloroethene			20.0	18.0		ug/L		90	74 - 123	1	30
1,2,3-Trichlorobenzene			20.0	17.2		ug/L		86	78 - 131	4	30
1,2,4-Trichlorobenzene			20.0	16.2		ug/L		81	80 - 124	7	30
1,2-Dibromo-3-Chloropropane			20.0	16.5		ug/L		83	55 - 134	12	30
1,2-Dichlorobenzene			20.0	18.0		ug/L		90	80 - 120	2	30
1,2-Dichloroethane			20.0	20.3		ug/L		102	76 - 121	1	30
1,2-Dichloropropane			20.0	18.7		ug/L		93	77 - 123	0	30
1,3-Dichlorobenzene			20.0	17.2		ug/L		86	80 - 120	2	30
1,4-Dichlorobenzene			20.0	16.9		ug/L		84	80 - 120	3	30
2-Butanone (MEK)			100	83.8		ug/L		84	64 - 120	5	30
2-Hexanone			100	80.7		ug/L		81	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)			100	86.9		ug/L		87	78 - 124	2	30
Acetone			100	97.1		ug/L		97	39 - 150	2	30

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

Lab Sample ID: LCSD 460-666683/5
Matrix: Water
Analysis Batch: 666683

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	18.4		ug/L		92	77 - 121	2	30
Bromoform			20.0	16.1		ug/L		80	53 - 120	4	30
Bromomethane			20.0	19.5		ug/L		98	10 - 150	1	30
Carbon disulfide			20.0	18.0		ug/L		90	69 - 133	3	30
Carbon tetrachloride			20.0	16.4		ug/L		82	70 - 132	5	30
Chlorobenzene			20.0	17.9		ug/L		89	80 - 120	5	30
Chlorobromomethane			20.0	19.0		ug/L		95	77 - 127	2	30
Chlorodibromomethane			20.0	18.3		ug/L		91	73 - 120	3	30
Chloroethane			20.0	18.6		ug/L		93	52 - 150	4	30
Chloroform			20.0	19.1		ug/L		96	80 - 120	1	30
Chloromethane			20.0	16.9		ug/L		85	56 - 131	3	30
cis-1,2-Dichloroethene			20.0	18.1		ug/L		90	80 - 120	2	30
cis-1,3-Dichloropropene			20.0	17.5		ug/L		87	77 - 120	2	30
Cyclohexane			20.0	16.2		ug/L		81	56 - 150	2	30
Dichlorobromomethane			20.0	18.2		ug/L		91	76 - 120	4	30
Dichlorodifluoromethane			20.0	14.8		ug/L		74	50 - 131	9	30
Ethylbenzene			20.0	17.2		ug/L		86	80 - 120	0	30
Ethylene Dibromide			20.0	18.4		ug/L		92	80 - 120	0	30
Isopropylbenzene			20.0	16.6		ug/L		83	80 - 123	2	30
Methyl acetate			40.0	37.0		ug/L		93	66 - 144	1	30
Methyl tert-butyl ether			20.0	19.1		ug/L		96	79 - 122	0	30
Methylcyclohexane			20.0	15.6		ug/L		78	61 - 145	2	30
Methylene Chloride			20.0	19.6		ug/L		98	77 - 123	2	30
m-Xylene & p-Xylene			20.0	16.8		ug/L		84	80 - 120	2	30
o-Xylene			20.0	17.7		ug/L		89	80 - 120	1	30
Styrene			20.0	17.9		ug/L		89	80 - 120	3	30
Tetrachloroethene			20.0	17.1		ug/L		85	78 - 122	1	30
Toluene			20.0	17.3		ug/L		87	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	18.0		ug/L		90	79 - 120	2	30
trans-1,3-Dichloropropene			20.0	17.1		ug/L		86	76 - 120	2	30
Trichloroethene			20.0	17.7		ug/L		89	77 - 120	3	30
Trichlorofluoromethane			20.0	18.7		ug/L		93	71 - 143	2	30
Vinyl chloride			20.0	18.4		ug/L		92	62 - 138	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*74 - 132*
4-Bromofluorobenzene	*105*		*77 - 124*
Dibromofluoromethane (Surr)	*111*		*72 - 131*
Toluene-d8 (Surr)	*103*		*80 - 120*

QC Association Summary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

GC/MS VOA

Analysis Batch: 666683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-200079-1	TB-122020	Total/NA	Water	8260C	
460-200079-2	EW-122020	Total/NA	Water	8260C	
460-200079-3	DUP-122020	Total/NA	Water	8260C	
460-200079-4	MW-28C-122020	Total/NA	Water	8260C	
460-200079-5	MW-28D-122020	Total/NA	Water	8260C	
MB 460-666683/9	Method Blank	Total/NA	Water	8260C	
LCS 460-666683/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-666683/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Client Sample ID: TB-122020
Lab Sample ID: 460-200079-1
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666683	01/07/20 02:08	GXY	TAL EDI

Client Sample ID: EW-122020
Lab Sample ID: 460-200079-2
Date Collected: 01/02/20 15:50
Matrix: Water
Date Received: 01/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666683	01/07/20 02:31	GXY	TAL EDI

Client Sample ID: DUP-122020
Lab Sample ID: 460-200079-3
Date Collected: 01/02/20 00:00
Matrix: Water
Date Received: 01/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666683	01/07/20 02:53	GXY	TAL EDI

Client Sample ID: MW-28C-122020
Lab Sample ID: 460-200079-4
Date Collected: 01/02/20 16:10
Matrix: Water
Date Received: 01/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666683	01/07/20 03:16	GXY	TAL EDI

Client Sample ID: MW-28D-122020
Lab Sample ID: 460-200079-5
Date Collected: 01/02/20 16:30
Matrix: Water
Date Received: 01/04/20 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	666683	01/07/20 03:38	GXY	TAL EDI

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-20

Method Summary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Job ID: 460-200079-1
Project/Site: DEC-Farmingdale480; Site: 130107

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-200079-1	TB-122020	Water	01/02/20 16:30	01/04/20 11:00	
460-200079-2	EW-122020	Water	01/02/20 15:50	01/04/20 11:00	
460-200079-3	DUP-122020	Water	01/02/20 00:00	01/04/20 11:00	
460-200079-4	MW-28C-122020	Water	01/02/20 16:10	01/04/20 11:00	
460-200079-5	MW-28D-122020	Water	01/02/20 16:30	01/04/20 11:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Albany #224

Chain of Custody Record

eurofins | Environment Testing TestAmerica

1/8/2020

Client Information	Sampler: Brian Jankauskas	Lab PM: Gilmore, Julie L	Carrier Tracking No(s):	COC No: 460-122939-79181.1
Client Contact: Mr. Brian Jankauskas	Phone: 518-402-9626	E-Mail: julie.gilmore@testamericainc.com		Page: Page 1 of 1
Company: New York State D.E.C.				Job #: 200079

Address: 625 Broadway 12th Floor	Due Date Requested:	Analysis Requested
City: Albany	TAT Requested (days): 30	
State, Zip: NY, 12233-7017	PO #: Callout: 136424; Site: 130107	
Phone: 518-402-9626(Tel)	WO #: Farmingdale Plaza Cleaners	
Email: brian.jankauskas@dec.ny.gov	Project #: 46009084	
Project Name: DEC-Farmingdale480; Site: 130107	SSOW#:	
Site:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs updated SOM01.2 (minus 1,4-DX)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TB-122020	—	—	—	Water	N		2	2	1
EW-122020	1/2/20	1550	G	Water	N		3	3	2
DUP-122020	1/2/20	—	G	Water	N		3	3	3
MW-28C-122020	1/2/20	1610	G	Water	N		3	3	4
MW-28D-122020	1/2/20	1630	G	Water	N		3	3	5

460-200079 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC EDD and Cat A

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	1/3/20 1505	NYSDEC	Tim Knollmyer	1-3-20 1565	Eurofins TA
Relinquished by: Tim Knollmyer	Date/Time: 1-3-20 1700	Company Eurofins TA	Received by: Kyara Knoble	Date/Time: 1-4-20 1100	Company Edison TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.: 1138090	Cooler Temperature(s) °C and Other Remarks: IR#71 2.3 12.6°C

Ver: 01/16/2019

Viatedex

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 200079

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.3 ℃	2.6 ℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

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

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

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

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

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

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

Initials: KK Date: 1/4/20

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 460-200079-1

Login Number: 200079 **List Source: Eurofins TestAmerica, Edison**
List Number: 1
Creator: Villanueva, Angelica P

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1138090
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	