

GROUNDWATER MONITORING REPORT
April – June 2021
FORMER SPEEDY'S CLEANERS-BRIGHTON SITE
SITE # 828128

WORK ASSIGNMENT NO. D009809-16

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

MACTEC Engineering and Geology, P.C.
Portland, Maine

MACTEC Project No. 3616206120

JANUARY 2022



engineering and constructing a better tomorrow

January 21, 2022

Mr. Charles T Gregory
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Subject: **Former Speedy's Cleaners-Brighton (Site 828128)**
Quarterly Monitoring Report
April – June 2021 (Q2)

Dear Mr. Gregory:

Under our Work Assignment D009809-16, MACTEC Engineering and Geology, P.C. (MACTEC) is submitting to the New York State Department of Conservation (NYSDEC) this Quarterly Monitoring Report (QMR) for the Former Speedy's Cleaners site (Site) (Site 828128) located in Brighton, Monroe County, New York. This report summarizes the groundwater monitoring and sample collection/analysis undertaken at the Site during the month of August for the reporting period of April through June 2021.

The following attachments are included with this report:

- Tables
 - Table 1: Groundwater Analytical Results – Volatile Organic Compounds
 - Table 2: Groundwater Analytical Results – Monitored Natural Attenuation
- Figures
 - Figure 1: Site Location
 - Figure 2: Groundwater Contour Map
 - Figure 3: Groundwater Analytical Concentrations
- Attachment 1 – Data Usability Summary Report

Objectives

The site management plan (SMP) includes groundwater monitoring program objectives to evaluate the current and future extent of chlorinated compound contamination in groundwater following the shutdown of the Groundwater Extraction Treatment System at Carriage Cleaners and post biological injections at Former Speedy’s Cleaners. The evaluation will also include the feasibility of monitored natural attenuation (MNA) to be considered as a long-term remedy for the off-site plume area at Former Speedy’s Cleaners and the potential for contaminant migration from the upgradient Carriage Cleaners Site to identify if these sites should be considered one co-mingled plume.

Groundwater Monitoring, Sampling and Analysis

A round of synoptic water levels of the motoring wells was completed prior to sampling. Figure 2 presents the groundwater contours and flow direction. The groundwater flows in the easterly direction from the site and is consistent with previous reporting.

Based off the current Scope of Work, monitoring wells MW-202, MW-203S, MW-204S, MW-205S, MW-206, and MW-212 were sampled by MACTEC on August 17, 2021, as part of quarterly monitoring well sampling program. The table below summarizes groundwater tetrachloroethene (PCE) concentrations in monitoring wells onsite and adjacent to the Site. Concentrations of PCE and trichlorethylene (TCE) are also presented in Figure 3. The Data Usability Summary Report is included as Attachment 1.

Groundwater Monitoring Well PCE Concentrations

Date	Groundwater PCE Concentration (µg/L)												
	MW-202	MW-202I	MW-203S	MW-204S	MW-205S	MW-206	MW-206S	MW-210	MW-211	MW-212	MW-213	HA-119	OW-1
January 2016	ND	-	-	-	-	-	-	-	1,300	130	250	-	-
4/25/2016	-	-	-	-	-	-	-	1.1	-	-	-	-	-
11/9/2016	-	-	-	-	-	-	-	160	-	-	-	-	-
5/12/2017	-	-	-	-	-	-	-	7.5	-	-	-	-	-
11/1/2017	-	-	-	-	-	-	-	5.6	-	-	-	-	-
5/2/2018	-	-	-	-	-	-	-	2.6	-	-	-	-	-
11/14/2018	-	-	-	-	-	-	-	3.7	-	-	-	-	-

Date	Groundwater PCE Concentration (µg/L)												
	MW-202	MW-202I	MW-203S	MW-204S	MW-205S	MW-206	MW-206S	MW-210	MW-211	MW-212	MW-213	HA-119	OW-1
5/1/2019	-	-	-	-	-	-	-	1.2	-	-	-	-	-
10/16/2019	-	-	-	-	-	-	-	8	-	-	-	-	-
3/30/2020	-	-	-	-	-	-	-	1.7	-	-	-	-	-
11/12/2020	-	-	-	-	-	-	-	8.7	-	-	-	-	-
3/30/2021*	6.3J	ND	-	18	.071J	-	ND	16	2,100	3,500	53	2U	150
8/17/2021	4.8J	-	0.48J	15	ND	ND	-	-	-	1,900	-	-	-

Notes:

- - indicates not sampled
- ND – non-detect
- *Sample for well OW-1 was collected on 3/29/2021; Samples for MW-204S, MW-206S, MW-211 were collected on 3/31/2021; Samples for MW-202, MW-2011, MW-210, MW-212 and MW-213 were collected on 4/1/2021
- Qualifiers: U = not detected; J = result is estimated

Generally, PCE and TCE concentrations decreased since the last quarterly sampling in April 2021. An increase in cis-1,2-dichloroethene (cis-DCE) and vinyl chloride (VC) is seen in monitoring wells MW-202, MW-204S, and MW-212 indicating reductive dechlorination is occurring in the areas of these wells in the groundwater.

Conclusions, Recommendations, and Updates

MACTEC recommends continuing the planned quarterly monitoring to further evaluate the site for natural attenuation or the need for additional in-situ biological amendment. The next QMR will document activities conducted during July through September 2021.

Please let us know if you have any questions on the material provided in this report.

Sincerely,

MACTEC Engineering and Geology, P.C.

Kevin McKeever, P.E., P.G.
 Principle Engineer

Jean Firth, P.G.
 Program Manager

Enclosures (3)

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

µg/L	microgram(s) per liter
cis-DCE	cis-1,2-dichloroethene
MACTEC	MACTEC Engineering and Consulting, P.C.
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
QMR	Quarterly Monitoring Report
Site	Former Speedy’s Cleaners site
SMP	Site Management Plan
TCE	trichloroethylene
VC	vinyl chloride
VOC	volatile organic compound

TABLES

Table 1: Groundwater Analytical Results - Volatile Organic Compounds

Parameter	Location		HA-119		MW-202		MW-202		MW-2021		MW-203S		MW-204S		MW-204S		MW-205S		MW-205S		MW-205S		MW-205S		MW-206S		MW-206		MW-210		MW-211		MW-212		MW-212		MW-213		OW-1	
	Sample ID	Date	828128HA119013		828128MW202012		828128MW20213		828128MW2021047		828128MW203S12		828128MW204S014		828128MW204S13		828128MW205S013		828128MW205S13D		828128MW206S010		828128MW20617		828128MW210015		828128MW211012		828128MW212010		828128MW21209		828128MW213010		828128OW001026					
	Qc Code		FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier	FS	Qualifier		
	GA	GV																																						
Volatile Organic Compounds (ug/L)																																								
Benzene	1	NS	2	U	10	U	10	U	1	U	1.8		1	U	1.4		1	U	1	U	1	U	1	U	1	U	1	U	1	U	50	U	100	U	40	U	10	U	4	U
Chloroform	7	NS	2	U	10	U	10	U	1	U	18		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	50	U	100	U	40	U	10	U	4	U
cis-1,2-Dichloroethene	5	NS	91		360		760		1	U	23		2.1		17		1.4	J+	1.4	J+	1	U	1	U	1	U	3.8		810		1900		2100		650		13			
Methyl Tertbutyl Ether	NS	10	0.83	J	10	U	10	U	1	U	9.9		0.19	J	0.76	J	1	U	1	U	1	U	1	U	1	U	1	U	50	U	100	U	40	U	10	U	4	U		
Tetrachloroethene	5	NS	2	U	6.3	J	4.8	J	1	U	0.48	J	18		15		0.71	J	0.63	J	1	U	1	U	1	U	16		2100		3500		1900		53		150			
Trichloroethene	5	NS	2	U	10	U	10	U	1	U	1	U	1.3		1.3		1	U	1	U	1	U	1	U	1	U	2.6		320		1000		640		10	U	9			
Vinyl chloride	2	NS	33		130		370		1	U	74		0.92	J	32		1	U	1	U	1	U	1	U	1	U	1	U	80		200		1600		550		4	U		

Notes:
 Units: ng/L = nanograms per liter; ug/L = micrograms per liter; mg/L = milligrams per liter
 NS = no standard
 GA = New York State Class GA Groundwater Standards
 GV = New York State Guidance Values
 QC Codes: FS = field sample; FD = field duplicate
 Qualifiers: U = not detected; J = result is estimated; J+ = estimated biased high during data validation

Table 2: Groundwater Analytical Results - Monitored Natural Attenuations

Parameter	Location		HA-119	MW-202	MW-202	MW-204S	MW-204S	MW-206S	MW-206	MW-210	MW-211	MW-212	MW-212	OW-1		
	Sample Date	Sample ID	3/30/2021	4/1/2021	8/17/2021	3/31/2021	8/17/2021	3/31/2021	8/17/2021	4/1/2021	3/31/2021	4/1/2021	8/17/2021	3/29/2021		
	Qc Code	Sample ID	828128HA119013	828128MW202012	828128MW20213	828128MW204S014	828128MW204S13	828128MW206S010	828128MW20617	828128MW210015	828128MW211012	828128MW212010	828128MW21209	828128OW001026		
	GA	GV	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier		
Total Metals (mg/L)																
Iron	0.3	NS			1.8	B			0.064	B				3.8	B	
Manganese	0.3	NS	0.099		0.12		0.1	B	0.0047		0.021	B	0.13		1	U
Dissolved Metals (mg/L)																
Iron	0.3	NS					0.05	U			0.05	U			1	U
Manganese	0.3	NS					0.098	B			0.0025	J B			1	U
Iron Complex (mg/L)																
Iron, Ferric	NS	NS	0.59	J	1.9	J			0.2	J			1.7	J	1	U
Dissolved Gases (ug/L)																
Methane	NS	NS	4	U	2.4	J	2.8	J	4	U	4	U	1.3	J	4	U
Ethene	NS	NS	7	U	7	U	7	U	7	U	7	U	7	U	7	U
Inorganics & Wet Chemistry (mg/L)																
Alkalinity, Total	NS	NS	381		405			355			434		435	404	408	
Chloride	250	NS	112		283			290			137		131	224	254	
Nitrate as N	10	NS	0.05	U	0.05	U		1.4			0.05	U	0.05	U	0.05	U
Sulfate	250	NS	77.7		72.1		83.9		38.6		63.4		74.9		78.2	
Total Organic Carbon	NS	NS	2.1		1.8		1.4		1.2		1.1		2.4		2	

Notes:

Units: ng/L = nanograms per liter; ug/L = micrograms per liter; mg/L = milligrams per liter

NS = no standard

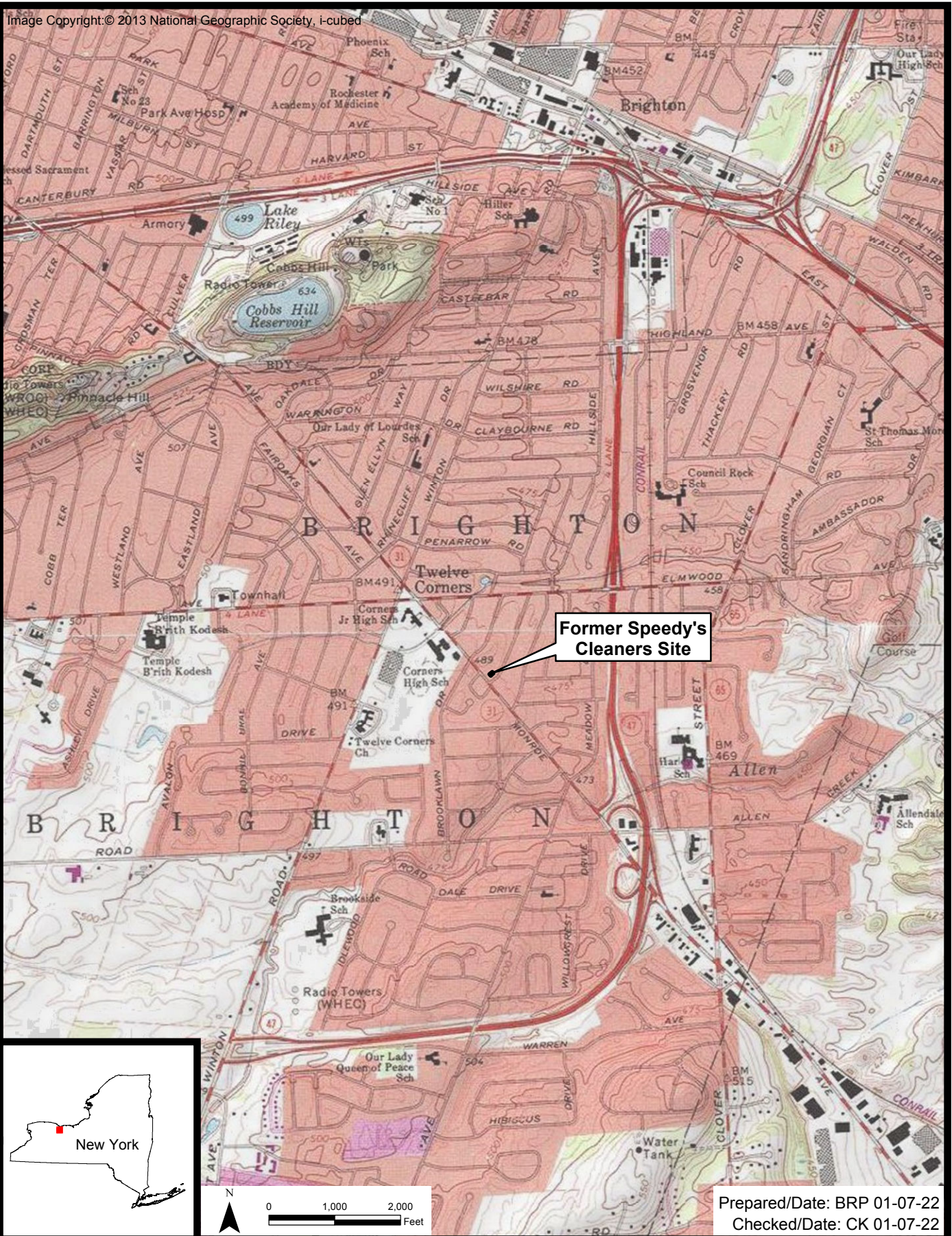
GA = New York State Class GA Groundwater Standards

GV = New York State Guidance Values

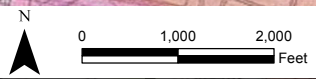
QC Codes: FS = field sample; FD = field duplicate

Qualifiers: U = not detected; J = result is estimated; J+ = estimated biased high during data validation

FIGURES



**Former Speedy's
Cleaners Site**



Prepared/Date: BRP 01-07-22
Checked/Date: CK 01-07-22

**Former Speedy's Cleaners
(hw828128); D009809-16
Brighton, New York**



Site Location
Project 3616206120 Figure 1

Document: P:\Projects\NYSDEC_General\NYSDEC_Information\D009809\Database\GIS\Speedys_Cleaners\GISMap_Documents\Speedys_Site_Location.mxd
 PDF: P:\Projects\NYSDEC_General\NYSDEC_Information\D009809\Database\GIS\Speedys_Cleaners\GIS\Figures\Quarterly_Monitoring_Reports\Figure_1_Site_Location.pdf 01-07-2022 9:23 AM brian.peters

Image Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



- Legend**
- Monitoring Well
 - Groundwater Contour August 2021 (dashed where inferred)
 - Groundwater Flow Direction
 - Former Speedy's Cleaners Building
 - Carriage Cleaners Building

Prepared/Date: BRP 01-19-22
Checked/Date: CK 01-19-22

Former Speedy's Cleaners (hw828128); D009809-16
Brighton, New York



Groundwater Contours August 2021
Project 3616206120
Figure 2

Image Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



MW-203S	
PCE	0.48J
TCE	1U
DCE	23
VC	74

MW-204S	
PCE	15
TCE	1.3
DCE	17
VC	32

MW-202	
PCE	4.8J
TCE	10U
DCE	760
VC	370

MW-212	
PCE	1900
TCE	640
DCE	2100
VC	1600

MW-205S	
PCE	1U
TCE	1U
DCE	1U
VC	1U

MW-206	
PCE	1U
TCE	1U
DCE	1U
VC	1U

- Legend**
- Monitoring Well
 - Former Speedy's Cleaners Building
 - Carriage Cleaners Building

Notes:
 All results in ug/L
 Samples collected 8/17/2021
Qualifiers
 U = not detected
 J = result is estimated
 J+ = estimated biased high during data validation

Prepared/Date: BRP 01-19-22
 Checked/Date: CK 01-19-22

Former Speedy's Cleaners (hw828128); D009809-16
 Brighton, New York



Groundwater Analytical Concentrations
 August 2021
 Project 3616206120
 Figure 3



ATTACHMENT 1

Data Usability Summary Report

**DATA USABILITY SUMMARY REPORT
AUGUST 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK**

1.0 INTRODUCTION

Groundwater samples were collected at the Former Speedy's Cleaners Site in August 2021 and submitted to Test America Laboratories (TAL) located in Buffalo, New York (TAL-BUF), for analysis. Samples included in this review were analyzed by the following method:

- Volatile Organic Compounds (VOCs) by Method 8260C

All results were reported in the following sample delivery group (SDG):

- 480-188425-1

A Data Usability Summary Report (DUSR) review was completed based on the New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation guidance (NYSDEC, 2010). Sample event information included in this DUSR is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverables as defined in the NYSDEC Analytical Services Protocols (NYSDEC, 2005).

The DUSR review included the following evaluations. A table of the project control limits is presented in Attachment A. Applicable laboratory quality control (QC) summary forms are included in Attachment B to document QC outliers associated with qualification actions.

- Lab Report Narrative Review
- Data Package Completeness and COC Records (Table 1 verification)
- Sample Preservation and Holding Times
- Instrument Calibration (report narrative/lab-qualifier evaluation)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes (if applicable)
- Field Duplicates
- Target Analyte Identification and Quantitation

- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

Data qualification actions are applied when necessary based on general procedures in USEPA validation guidelines (USEPA, 2014) and the judgment of the project chemist. The following laboratory or data review qualifiers are used in the final data presentation:

U = target analyte is not detected above the reported detection limit or was qualified not detected

J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory or as qualified in the following sections.

2.0 POTENTIAL DATA LIMITATIONS

VOCs

Results for a subset of target analytes were qualified estimated UJ based on low recoveries in the associated MS/MSD. Qualified results are summarized in Table 3 with reason code MSL.

3.0 ADDITIONAL QC EXCEEDANCES AND OBSERVATIONS

Samples 828128MW21209 and 828128MW20213 required a 10x dilution due to high concentrations of target compounds. Elevated reporting limits are reported as indicated in Table 2.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; June 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B"; USEPA Region II; HW-24; Revision 4; September 2014.

Data Validator: Casey Cormier



September 21, 2021

Reviewed by: Julie Ricardi

A handwritten signature in black ink that reads "Julie Ricardi". The signature is written in a cursive style with a large initial 'J'.

September 30, 2021

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRS D – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1 -- SUMMARY OF SAMPLES AND ANALYTICAL METHODS
 DATA USABILITY SUMMARY REPORT
 AUGUST 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

Lab SDG	Location	Field Sample Id	Field Sample Date	Media	Lab Id Method Class Analysis Method Fraction Qc Code	TALBFLO VOCs					
						D516 N	RSK175 N	SW6010C D	SW6010C T	SW8260C N	SW9060 T
						Parameters	Parameters	Parameters	Parameters	Parameters	Parameters
480-188425-1	MW-202	828128MW20213	8/17/2021	GW	FS	1	3	2	2	48	1
480-188425-1	MW-203S	828128MW203S12	8/17/2021	GW	FS					48	
480-188425-1	MW-204S	828128MW204S13	8/17/2021	GW	FS	1	3	2	2	48	1
480-188425-1	MW-205S	828128MW205S13	8/17/2021	GW	FS					48	
480-188425-1	MW-205S	828128MW205S13D	8/17/2021	GW	FD					48	
480-188425-1	MW-206	828128MW20617	8/17/2021	GW	FS	1	3	2	2	48	1
480-188425-1	MW-212	828128MW21209	8/17/2021	GW	FS	1	3	2	2	48	1
480-188425-1	QC	TRIP BLANK	8/17/2021	BW	TB					48	

Created by: SRC 9/16/21
 Checked by: CLC 9/21/2021

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 DATA USABILITY SUMMARY REPORT
 AUGUST 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

				SDG	480-188425-1	480-188425-1	480-188425-1	480-188425-1	
				Location	MW-202	MW-203S	MW-204S	MW-205S	
				Sample Date	8/17/2021	8/17/2021	8/17/2021	8/17/2021	
				Sample ID	828128MW20213	828128MW203S12	828128MW204S13	828128MW205S13	
				QC Code	FS	FS	FS	FS	
Fraction	Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	1,1,1-Trichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2,2-Tetrachloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2-Trichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1-Dichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1-Dichloroethene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2,4-Trichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dibromo-3-chloropropane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dibromoethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichloropropane	ug/l	10	U	1	U	1	U
N	SW8260C	1,3-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,4-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	2-Butanone	ug/l	100	U	10	U	10	U
N	SW8260C	2-Hexanone	ug/l	50	U	5	U	5	U
N	SW8260C	4-Methyl-2-pentanone	ug/l	50	U	5	U	5	U
N	SW8260C	Acetic acid, methyl ester	ug/l	25	U	2.5	U	2.5	U
N	SW8260C	Acetone	ug/l	100	U	10	U	10	U
N	SW8260C	Benzene	ug/l	10	U	1.8		1.4	
N	SW8260C	Bromodichloromethane	ug/l	10	U	1	U	1	U
N	SW8260C	Bromoform	ug/l	10	U	1	U	1	U
N	SW8260C	Bromomethane	ug/l	10	U	1	U	1	U
N	SW8260C	Carbon disulfide	ug/l	10	U	1	U	1	U
N	SW8260C	Carbon tetrachloride	ug/l	10	U	1	U	1	U
N	SW8260C	Chlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	Chloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	Chloroform	ug/l	10	U	18		1	
N	SW8260C	Chloromethane	ug/l	10	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 DATA USABILITY SUMMARY REPORT
 AUGUST 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

				SDG	480-188425-1	480-188425-1	480-188425-1	480-188425-1	
				Location	MW-202	MW-203S	MW-204S	MW-205S	
				Sample Date	8/17/2021	8/17/2021	8/17/2021	8/17/2021	
				Sample ID	828128MW20213	828128MW203S12	828128MW204S13	828128MW205S13	
				QC Code	FS	FS	FS	FS	
Fraction	Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	cis-1,2-Dichloroethene	ug/l	760		23		17	1 U
N	SW8260C	cis-1,3-Dichloropropene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Cyclohexane	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Dibromochloromethane	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Dichlorodifluoromethane	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Ethylbenzene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Isopropylbenzene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Methyl cyclohexane	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Methyl Tertbutyl Ether	ug/l	10 U		9.9		0.76 J	1 U
N	SW8260C	Methylene chloride	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Styrene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Tetrachloroethene	ug/l	4.8 J		0.48 J		15	1 U
N	SW8260C	Toluene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	trans-1,2-Dichloroethene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	trans-1,3-Dichloropropene	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Trichloroethene	ug/l	10 U		1 U		1.3	1 U
N	SW8260C	Trichlorofluoromethane	ug/l	10 U		1 U		1 U	1 U
N	SW8260C	Vinyl chloride	ug/l	370		74		32	1 U
N	SW8260C	Xylenes, Total	ug/l	20 U		2 U		2 U	2 U
D	SW6010C	Iron	mg/l	0.05 U				0.05 U	
D	SW6010C	Manganese	mg/l	0.098 B				0.0025 J B	
T	SW6010C	Iron	mg/l	1.8 B				0.064 B	
T	SW6010C	Manganese	mg/l	0.1 B				0.021 B	
N	D516	Sulfate	mg/l	83.9				63.4	
N	RSK175	Ethane	ug/l	7.5 U				7.5 U	
N	RSK175	Ethene	ug/l	7 U				7 U	
N	RSK175	Methane	ug/l	2.8 J				4 U	
T	SW9060	Total Organic Carbon	mg/l	1.4				1.1	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 DATA USABILITY SUMMARY REPORT
 AUGUST 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

				SDG	480-188425-1	480-188425-1	480-188425-1	480-188425-1	
				Location	MW-205S	MW-206	MW-212	QC	
				Sample Date	8/17/2021	8/17/2021	8/17/2021	8/17/2021	
				Sample ID	828128MW205S13D	828128MW20617	828128MW21209	TRIP BLANK	
				QC Code	FD	FS	FS	TB	
Fraction	Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	40	U
N	SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	2-Butanone	ug/l	10	U	10	U	400	U
N	SW8260C	2-Hexanone	ug/l	5	U	5	U	200	U
N	SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	200	U
N	SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	100	U
N	SW8260C	Acetone	ug/l	10	U	10	U	400	U
N	SW8260C	Benzene	ug/l	1	U	1	U	40	U
N	SW8260C	Bromodichloromethane	ug/l	1	U	1	U	40	U
N	SW8260C	Bromoform	ug/l	1	U	1	U	40	U
N	SW8260C	Bromomethane	ug/l	1	U	1	U	40	U
N	SW8260C	Carbon disulfide	ug/l	1	U	1	U	40	U
N	SW8260C	Carbon tetrachloride	ug/l	1	U	1	U	40	U
N	SW8260C	Chlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	Chloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	Chloroform	ug/l	1	U	1	U	40	U
N	SW8260C	Chloromethane	ug/l	1	U	1	U	40	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
DATA USABILITY SUMMARY REPORT
AUGUST 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK

				SDG	480-188425-1	480-188425-1	480-188425-1	480-188425-1			
				Location	MW-205S	MW-206	MW-212	QC			
				Sample Date	8/17/2021	8/17/2021	8/17/2021	8/17/2021			
				Sample ID	828128MW205S13D	828128MW20617	828128MW21209	TRIP BLANK			
				QC Code	FD	FS	FS	TB			
Fraction	Method	Parameter	Unit	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier		
N	SW8260C	cis-1,2-Dichloroethene	ug/l	1	U	1	U	2100	1	U	
N	SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Cyclohexane	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Dibromochloromethane	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Dichlorodifluoromethane	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Ethylbenzene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Isopropylbenzene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Methyl cyclohexane	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Methylene chloride	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Styrene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Tetrachloroethene	ug/l	1	U	1	U	1900		1	U
N	SW8260C	Toluene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Trichloroethene	ug/l	1	U	1	U	640		1	U
N	SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	40	U	1	U
N	SW8260C	Vinyl chloride	ug/l	1	U	1	U	1600		1	U
N	SW8260C	Xylenes, Total	ug/l	2	U	2	U	80	U	2	U
D	SW6010C	Iron	mg/l			0.05	U	0.05	U		
D	SW6010C	Manganese	mg/l			0.089	B	0.37	B		
T	SW6010C	Iron	mg/l			6	B	3.8	B		
T	SW6010C	Manganese	mg/l			0.15	B	0.38	B		
N	D516	Sulfate	mg/l			78.2		107			
N	RSK175	Ethane	ug/l			7.5	U	7.5	U		
N	RSK175	Ethene	ug/l			7	U	100			
N	RSK175	Methane	ug/l			4	U	20			
T	SW9060	Total Organic Carbon	mg/l			2		1.5			

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
 DATA USABILITY SUMMARY REPORT
 AUGUST 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

SDG	Method	Lab Sample ID	Sample Date	Field Sample ID	Fraction	Parameter Name	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-188425-1	SW8260C	480-188425-4	8/17/2021	828128MW205S13	N	2-Butanone	10	U	10	UJ	MSL	ug/l
480-188425-1	SW8260C	480-188425-4	8/17/2021	828128MW205S13	N	Acetic acid, methyl ester	2.5	U F1	2.5	UJ	MSL	ug/l
480-188425-1	SW8260C	480-188425-4	8/17/2021	828128MW205S13	N	Acetone	10	U	10	UJ	MSL	ug/l

Created by: WCG 9/22/2021
 Checked by: CLC 9/23/2021

**ATTACHMENT A
SUMMARY OF VALIDATION QC LIMITS FOR SURROGATES, SPIKES, AND DUPLICATES
BASED ON THE REGION 2 VALIDATION GUIDELINES**

PARAMETER	QC TEST	ANALYTE	WATER	Water
			(%R)	(RPD)
Volatiles	Surrogate	All Surrogate Compounds	80 - 120	
	LCS	All Target Compounds	70 - 130	
	MS/MSD	All Target Compounds	70 - 130	20
	Field Duplicate	All Target Compounds		50

Notes:

(1) For PFAS, surrogate = extracted isotope dilution standard

LCS - Laboratory Control Sample

MS/MSD - Matrix spike/ Matrix Spike Duplicate

RPD = Relative percent difference

%R = percent recovery

QC Limits are based on USEPA Region II Data Validation Guidelines and Project QA/QC Objectives

*NYSDEC Former Speedy's Cleaners Site
NYSDEC Site No. 828128
MACTEC Engineering and Consulting, P.C.*

Project No. 3616206120

**DATA USABILITY SUMMARY REPORT
AUGUST 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK**

ATTACHMENT B

VOCs

NYSDEC DUSR PROJECT CHEMIST REVIEW RECORD

Project:

Method:

Laboratory: SDG(s):

Date:

Reviewer:

Review Level NYSDEC DUSR USEPA Region II Guideline

Check if Reviewed

1. **Case Narrative Review and COC/Data Package Completeness**

Were problems noted? YES NO

Are Field Sample IDs and Locations assigned correctly? YES NO

Were all the samples on the COC analyzed for the requested analyses? YES NO

2. **Holding time and Sample Collection**

All samples were analyzed within the 14-day holding time. YES NO

3. **QC Blanks**

Are method blanks free of contamination? YES NO

Are Trip blanks free of contamination? YES NO

Are Rinse blanks free of contamination? YES NO NA

4. **Instrument Tuning – Data Package Narrative Review**

Did the laboratory narrative identify any results that were not within method criteria?
YES NO

If yes, use professional judgment to evaluate data and qualify results if needed

5. **Instrument Calibration – Data Package Narrative Review**

Did the laboratory narrative identify compounds that were not within criteria in the initial and/or continuing calibration standards? YES NO

Initial Calibration %RSD = 20% (30% for 1,1-DCE, chloroform, 1,2-DCP, toluene, ethylbenzene, VC)

Initial Avg RRF and Continuing RRF should be ≥ 0.05 and 0.10 for Chloromethane, 1,1-Dichloroethane, Bromoform and 0.30 for Chlorobenzene and 1,1,2,2-Tetrachloroethane

Continuing Calibration %D = 20%

Did the laboratory qualify results based on initial or continuing calibration exceedances?
YES NO

If yes to above, use professional judgment to evaluate data and qualify results if needed

6. **Internal Standards – Data Package Narrative Review**

(Area Limits = -50% to +100%, RTs within 30 seconds of daily CCAL standard (or ICAL mid-point if samples follow ICAL)

Did the laboratory narrative identify any sample internal standards that were not within criteria?
YES NO

Did the laboratory qualify results based on internal standard exceedances? YES NO
If yes to above, use professional judgment to evaluate data and qualify results if needed

7. **Surrogate Recovery - Region II limits (water 80-120%, soil 70-130%)**

Were all results within Region II limits? YES NO

8. **Matrix Spike - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)**

Were MS/MSDs submitted/analyzed? YES NO

Were all results within the Region II limits? YES NO NA

9. **Duplicates - Region II Limits (water RPD 50, soil RPD 100)**

Were Field Duplicates submitted/analyzed? YES NO

Were all results within Region II limits? (soil RPD<100, water RPD<50) YES NO NA

10. **Laboratory Control Sample Results - Region II (Water and soil 70-130%)**

Were all results within Region II control limits? YES NO

11. **Reporting Limits:** Were samples analyzed at a dilution? YES NO

12. **Raw Data Review and Calculation Checks**

13. **Electronic Data Review and Edits**

Does the EDD match the Form Is? YES NO

14. **Tables and TIC Review**

Table 1 (Samples and Analytical Methods)

Table 2 (Analytical Results)

Table 3 (Qualification Actions)

Were all tables produced and reviewed? YES NO

Table 4 (TICs) Did lab report TICs? YES NO

Case Narrative

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-188425-1

Job ID: 480-188425-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-188425-1

Comments

No additional comments.

Receipt

The samples were received on 8/18/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828128MW21209 (480-188425-3) and 828128MW20213 (480-188425-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-593708 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 828128MW203S12 (480-188425-1), 828128MW20617 (480-188425-2), 828128MW21209 (480-188425-3), 828128MW205S13 (480-188425-4), 828128MW204S13 (480-188425-5), 828128MW20213 (480-188425-6), TRIP BLANK (480-188425-7) and 828128MW205S13D (480-188425-8).

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

GC VOA

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

Metals

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

General Chemistry

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

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-188425-1

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

Lab Sample ID: LCS 480-593708/6
Matrix: Water
Analysis Batch: 593708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	25.6		ug/L		102	80 - 120
Tetrachloroethene	25.0	25.6		ug/L		103	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	26.9		ug/L		108	62 - 150
Vinyl chloride	25.0	27.4		ug/L		109	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-188425-4 MS
Matrix: Water
Analysis Batch: 593708

Client Sample ID: 828128MW205S13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	%Rec Limits: 70 - 130
1,1,1-Trichloroethane	ND	F2	25.0	25.4		ug/L		102	73 - 126	
1,1,2,2-Tetrachloroethane	ND		25.0	19.3		ug/L		77	76 - 120	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	22.1		ug/L		88	61 - 148	
1,1,2-Trichloroethane	ND		25.0	20.5		ug/L		82	76 - 122	
1,1-Dichloroethane	ND		25.0	22.2		ug/L		89	77 - 120	
1,1-Dichloroethene	ND		25.0	23.3		ug/L		93	66 - 127	
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	19.2	F1	ug/L		77	79 - 122	
1,2-Dibromo-3-Chloropropane	ND	F2	25.0	19.3		ug/L		77	56 - 134	
1,2-Dibromoethane	ND		25.0	19.9		ug/L		80	77 - 120	
1,2-Dichlorobenzene	ND		25.0	20.1		ug/L		80	80 - 124	
1,2-Dichloroethane	ND		25.0	19.9		ug/L		79	75 - 120	
1,2-Dichloropropane	ND		25.0	20.6		ug/L		83	76 - 120	
1,3-Dichlorobenzene	ND		25.0	20.3		ug/L		81	77 - 120	
1,4-Dichlorobenzene	ND		25.0	20.6		ug/L		82	78 - 124	
2-Butanone (MEK)	ND		125	84.5		ug/L		68	57 - 140	UJ MSL
2-Hexanone	ND		125	88.2		ug/L		71	65 - 127	
4-Methyl-2-pentanone (MIBK)	ND		125	91.7		ug/L		73	71 - 125	
Acetone	ND		125	86.9		ug/L		69	56 - 142	UJ MSL
Benzene	ND	F2	25.0	21.5		ug/L		86	71 - 124	
Bromodichloromethane	ND	F2	25.0	21.4		ug/L		86	80 - 122	
Bromoform	ND		25.0	20.5		ug/L		82	61 - 132	
Bromomethane	ND		25.0	29.2		ug/L		117	55 - 144	
Carbon disulfide	ND	F2	25.0	20.6		ug/L		82	59 - 134	
Carbon tetrachloride	ND	F2	25.0	26.5		ug/L		106	72 - 134	
Chlorobenzene	ND		25.0	20.9		ug/L		84	80 - 120	
Chloroethane	ND		25.0	29.7		ug/L		119	69 - 136	
Chloroform	ND		25.0	21.2		ug/L		85	73 - 127	

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-188425-1

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

Lab Sample ID: 480-188425-4 MS
Matrix: Water
Analysis Batch: 593708

Client Sample ID: 828128MW205S13
Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Chloromethane	ND		25.0	27.8		ug/L		111	68 - 124	
cis-1,2-Dichloroethene	ND	F2	25.0	21.8		ug/L		87	74 - 124	
cis-1,3-Dichloropropene	ND	F2	25.0	19.1		ug/L		76	74 - 124	
Cyclohexane	ND		25.0	24.0		ug/L		96	59 - 135	
Dibromochloromethane	ND		25.0	21.0		ug/L		84	75 - 125	
Dichlorodifluoromethane	ND		25.0	29.2		ug/L		117	59 - 135	
Ethylbenzene	ND		25.0	21.3		ug/L		85	77 - 123	
Isopropylbenzene	ND		25.0	21.5		ug/L		86	77 - 122	
Methyl acetate	ND	F1	50.0	32.9	F1	ug/L		66	74 - 133	UJ MSL
Methyl tert-butyl ether	ND		25.0	24.8		ug/L		99	77 - 120	
Methylcyclohexane	ND		25.0	24.2		ug/L		97	68 - 134	
Methylene Chloride	ND		25.0	21.6		ug/L		86	75 - 124	
Styrene	ND		25.0	21.6		ug/L		86	80 - 120	
Tetrachloroethene	ND		25.0	22.1		ug/L		89	74 - 122	
Toluene	ND		25.0	21.1		ug/L		85	80 - 122	
trans-1,2-Dichloroethene	ND		25.0	22.3		ug/L		89	73 - 127	
trans-1,3-Dichloropropene	ND	F1	25.0	19.0	F1	ug/L		76	80 - 120	
Trichloroethene	ND		25.0	21.6		ug/L		87	74 - 123	
Trichlorofluoromethane	ND		25.0	30.4		ug/L		122	62 - 150	
Vinyl chloride	ND		25.0	31.7		ug/L		127	65 - 133	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-188425-4 MSD
Matrix: Water
Analysis Batch: 593708

Client Sample ID: 828128MW205S13
Prep Type: Total/NA

RPD Limit: 20

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,1,1-Trichloroethane	ND	F2	25.0	29.9	F2	ug/L		120	73 - 126	16	15	
1,1,2,2-Tetrachloroethane	ND		25.0	21.2		ug/L		85	76 - 120	9	15	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.4		ug/L		102	61 - 148	14	20	
1,1,2-Trichloroethane	ND		25.0	23.0		ug/L		92	76 - 122	12	15	
1,1-Dichloroethane	ND		25.0	25.4		ug/L		102	77 - 120	14	20	
1,1-Dichloroethene	ND		25.0	26.9		ug/L		107	66 - 127	14	16	
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	23.6	F2	ug/L		94	79 - 122	21	20	
1,2-Dibromo-3-Chloropropane	ND	F2	25.0	22.6	F2	ug/L		90	56 - 134	16	15	
1,2-Dibromoethane	ND		25.0	22.8		ug/L		91	77 - 120	13	15	
1,2-Dichlorobenzene	ND		25.0	24.2		ug/L		97	80 - 124	19	20	
1,2-Dichloroethane	ND		25.0	23.2		ug/L		93	75 - 120	15	20	
1,2-Dichloropropene	ND		25.0	23.5		ug/L		94	76 - 120	13	20	
1,3-Dichlorobenzene	ND		25.0	24.1		ug/L		96	77 - 120	17	20	
1,4-Dichlorobenzene	ND		25.0	24.3		ug/L		97	78 - 124	17	20	
2-Butanone (MEK)	ND		125	92.0		ug/L		74	57 - 140	8	20	
2-Hexanone	ND		125	97.1		ug/L		78	65 - 127	10	15	

Eurofins TestAmerica, Buffalo

Calculation Checks for NYSDEC DUSR

Site: Former Speedys Cleaners

SDG = 180-188425-1

Initial Calibration Check

Instrument ID = HP5975D

Compound Name = **Vinyl chloride**

RT = 1.81 min

Internal standard Name = Fluorobenzene

Level	Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
1	N/A	N/A	25	140302	N/A
2	1	8814	25	139530	1.5792303
3	2	16551	25	142308	1.4538009
4	5	45641	25	147011	1.5522988
5	10	95214	25	144752	1.6444332
6	25	246073	25	142739	1.7239367
7	50	464552	25	140247	1.6561923
8	100	944585	25	144229	1.6373008
				Avg =	1.6067419
				%RSD =	5.43%

CCV

Continuing Calibration Check

Date = 7/23/2021

Time = 23:50

Concentration (ug/L)	Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
25	249717	25	146652	1.7027862
			% D =	5.98%

LCS

LCS= LCS 480-593708/6

Date = 8/23/2021

Time = 11:42

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
229846	25	130666	1.606741852
Concentration (ug/L)=			27.37

Instrument concentration OKAY

Sample Calculation Check

Field Sample ID = 828128MW203S12

Lab Sample ID = 480-188425-1

Date = 8/23/2021

Time = 16:33

Compound Area	Internal Std Conc (ug/L)	Internal Std Area	RF
575294	25	120171	1.606741852
Concentration (ug/L) =			74.49
Final Concentration (ug/L) =			74.5

Instrument concentration OKAY

Final concentration OKAY