ANALYTICAL REPORT

Lab Number:	L1821017
Client:	CH2M / Dow Chemical Company 299 Madison Ave. Morristown, NJ 07960
ATTN:	David Newman
Phone:	(862) 242-7061
Project Name:	FORMER HAMPSHIRE CHEMICAL CORP
Project Number:	701970.01.SA
Report Date:	06/13/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

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508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1821017-01	MW10-060618	WATER	WATERLOO, NY	06/06/18 11:08	06/06/18
L1821017-02	FB-060618-1	WATER	WATERLOO, NY	06/06/18 11:10	06/06/18
L1821017-03	FB-060618-2	WATER	WATERLOO, NY	06/06/18 13:20	06/06/18
L1821017-04	MW5I-060618	WATER	WATERLOO, NY	06/06/18 13:40	06/06/18
L1821017-05	MW16I-060618	WATER	WATERLOO, NY	06/06/18 15:20	06/06/18
L1821017-06	TB-060618-1	WATER	WATERLOO, NY	06/06/18 08:10	06/06/18

Project Name:	FORMER HAMPSHIRE CHEMICAL CORP	**Lab Number:**	L1821017
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	FORMER HAMPSHIRE CHEMICAL CORP	**Lab Number:**	L1821017
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Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1821017-01 through -06 and the associated method blank were evaluated for the presence of the following project specific TIC and were determined to be non-detect: dimethyl disulfide.

The initial calibration, associated with L1821017-01 through -06, did not meet the method required minimum response factor for the calibration standards for bromodichloromethane, cis-1,3-dichloropropene, bromomethane, chloroethane, trichloroethene, dibromomethane, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, bromochloromethane, and 1,4-dioxane.

The continuing calibration, associated with L1821017-01 through -06, did not meet the method required minimum response factor for bromomethane, chloroethane, trichloroethene, dibromomethane, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, bromochloromethane, and 1,4-dioxane.

The WG1123598-2 continuing calibration verification standard has the percent deviation for bromomethane (49%D) above the 20% CCV criteria, but within overall method allowances.

Semivolatile Organics

The WG1124909-2/-3 LCS/LCSD recoveries, associated with L1821017-01 and -04, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly Stenstrom

Title: Technical Director/Representative Date: 06/13/18

ORGANICS

VOLATILES

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01
Client ID: MW10-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 11:08
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 23:56
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01 Date Collected: 06/06/18 11:08

Client ID: MW10-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01 Date Collected: 06/06/18 11:08

Client ID: MW10-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-02
Client ID: FB-060618-1
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 11:10
Date Received: 06/06/18
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 22:15
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

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SAMPLE RESULTS

Lab ID: L1821017-02 Date Collected: 06/06/18 11:10

Client ID: FB-060618-1 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.5	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

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SAMPLE RESULTS

Lab ID: L1821017-02 Date Collected: 06/06/18 11:10

Client ID: FB-060618-1 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
Total TIC Compounds	1.41	J	ug/l			1
Sulfur Dioxide	1.41	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

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SAMPLE RESULTS

Lab ID: L1821017-03
Client ID: FB-060618-2
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 13:20
Date Received: 06/06/18
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 22:40
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-03 Date Collected: 06/06/18 13:20

Client ID: FB-060618-2 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-03 Date Collected: 06/06/18 13:20

Client ID: FB-060618-2 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
Total TIC Compounds	1.23	J	ug/l			1
Sulfur Dioxide	1.23	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04
Client ID: MW5I-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 13:40
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/08/18 00:46
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04 Date Collected: 06/06/18 13:40

Client ID: MW5I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04 Date Collected: 06/06/18 13:40

Client ID: MW5I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
Total TIC Compounds	1.02	J	ug/l			1
Unknown	1.02	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-05
Client ID: MW16I-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 15:20
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/08/18 00:21
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-05 Date Collected: 06/06/18 15:20

Client ID: MW16I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	4.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-05 Date Collected: 06/06/18 15:20

Client ID: MW16I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
No Tentatively Identified Compounds	ND		ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-06
Client ID: TB-060618-1
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 08:10
Date Received: 06/06/18
Field Prep: None

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 06/07/18 23:05
Analyst: BD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-06 Date Collected: 06/06/18 08:10

Client ID: TB-060618-1 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-06 Date Collected: 06/06/18 08:10

Client ID: TB-060618-1 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: None

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
Tentatively Identified Compounds						
Total TIC Compounds	1.27	J	ug/l			1
Sulfur Dioxide	1.27	NJ	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 21:50
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1123959-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 21:50
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1123959-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 21:50
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG1123959-5					
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
Tentatively Identified Compounds					
Total TIC Compounds	1.80	J	ug/l		
Unknown	1.80	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1123959-3 WG1123959-4								
Methylene chloride	93		96		70-130	3		20
1,1-Dichloroethane	93		98		70-130	5		20
Chloroform	94		98		70-130	4		20
Carbon tetrachloride	93		100		63-132	7		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	82		84		63-130	2		20
1,1,2-Trichloroethane	96		98		70-130	2		20
Tetrachloroethene	91		96		70-130	5		20
Chlorobenzene	92		96		75-130	4		20
Trichlorofluoromethane	88		95		62-150	8		20
1,2-Dichloroethane	91		94		70-130	3		20
1,1,1-Trichloroethane	92		99		67-130	7		20
Bromodichloromethane	94		99		67-130	5		20
trans-1,3-Dichloropropene	84		86		70-130	2		20
cis-1,3-Dichloropropene	96		100		70-130	4		20
1,1-Dichloropropene	93		99		70-130	6		20
Bromoform	78		78		54-136	0		20
1,1,2,2-Tetrachloroethane	93		96		67-130	3		20
Benzene	94		100		70-130	6		20
Toluene	92		96		70-130	4		20
Ethylbenzene	92		96		70-130	4		20
Chloromethane	92		93		64-130	1		20
Bromomethane	64		70		39-139	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1123959-3 WG1123959-4								
Vinyl chloride	91		97		55-140	6		20
Chloroethane	94		98		55-138	4		20
1,1-Dichloroethene	92		99		61-145	7		20
trans-1,2-Dichloroethene	93		100		70-130	7		20
Trichloroethene	88		96		70-130	9		20
1,2-Dichlorobenzene	94		98		70-130	4		20
1,3-Dichlorobenzene	94		98		70-130	4		20
1,4-Dichlorobenzene	94		98		70-130	4		20
Methyl tert butyl ether	96		98		63-130	2		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	94		99		70-130	5		20
Dibromomethane	94		96		70-130	2		20
1,2,3-Trichloropropane	87		95		64-130	9		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	86		92		36-147	7		20
Acetone	96		93		58-148	3		20
Carbon disulfide	100		110		51-130	10		20
2-Butanone	98		98		63-138	0		20
Vinyl acetate	98		100		70-130	2		20
4-Methyl-2-pentanone	87		89		59-130	2		20
2-Hexanone	88		89		57-130	1		20
Bromochloromethane	95		100		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1123959-3 WG1123959-4								
2,2-Dichloropropane	95		100		63-133	5		20
1,2-Dibromoethane	94		97		70-130	3		20
1,3-Dichloropropane	93		95		70-130	2		20
1,1,1,2-Tetrachloroethane	93		97		64-130	4		20
Bromobenzene	93		97		70-130	4		20
n-Butylbenzene	99		100		53-136	1		20
sec-Butylbenzene	97		100		70-130	3		20
tert-Butylbenzene	97		100		70-130	3		20
o-Chlorotoluene	94		94		70-130	0		20
p-Chlorotoluene	95		100		70-130	5		20
1,2-Dibromo-3-chloropropane	83		81		41-144	2		20
Hexachlorobutadiene	110		110		63-130	0		20
Isopropylbenzene	95		100		70-130	5		20
p-Isopropyltoluene	99		100		70-130	1		20
Naphthalene	92		91		70-130	1		20
n-Propylbenzene	94		99		69-130	5		20
1,2,3-Trichlorobenzene	110		110		70-130	0		20
1,2,4-Trichlorobenzene	100		100		70-130	0		20
1,3,5-Trimethylbenzene	96		100		64-130	4		20
1,2,4-Trimethylbenzene	97		100		70-130	3		20
1,4-Dioxane	118		116		56-162	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG1123959-3 WG1123959-4								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	98		99		70-130

SEMIVOLATILES

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Lab Number: L1821017
Project Number: 701970.01.SA
Report Date: 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01
Client ID: MW10-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 11:08
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/12/18 19:48
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	2.5	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01 Date Collected: 06/06/18 11:08

Client ID: MW10-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Tentatively Identified Compounds						
Total TIC Compounds	11.3	J	ug/l			1
Aldol Condensates	11.3	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	47		10-120
4-Terphenyl-d14	64		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Lab Number: L1821017
Project Number: 701970.01.SA
Report Date: 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01
Client ID: MW10-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 11:08
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/18 12:22
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01 Date Collected: 06/06/18 11:08

Client ID: MW10-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	46		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	56		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	61		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Lab Number: L1821017
Project Number: 701970.01.SA
Report Date: 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04
Client ID: MW5I-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 13:40
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 06/12/18 20:16
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04 Date Collected: 06/06/18 13:40

Client ID: MW5I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Tentatively Identified Compounds						
Total TIC Compounds	10.3	J	ug/l			1
Aldol Condensates	10.3	J	ug/l			1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	48		10-120
4-Terphenyl-d14	70		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Lab Number: L1821017
Project Number: 701970.01.SA
Report Date: 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04
Client ID: MW5I-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 13:40
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/18 12:48
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Pentachlorophenol	ND		ug/l	0.80	0.01	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04 Date Collected: 06/06/18 13:40

Client ID: MW5I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	50		21-120
Phenol-d6	47		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	59		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	65		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-05
Client ID: MW16I-060618
Sample Location: WATERLOO, NY

Date Collected: 06/06/18 15:20
Date Received: 06/06/18
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/18 13:14
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 09:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	55		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	59		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/12/18 18:25
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1124909-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/12/18 18:25
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1124909-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/12/18 18:25
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,04 Batch: WG1124909-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49
Tentatively Identified Compounds					
Total TIC Compounds	17.6	J	ug/l		
Aldol Condensates	17.6	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	57		15-120
2,4,6-Tribromophenol	41		10-120
4-Terphenyl-d14	58		41-149

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/18 11:03
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04-05 Batch: WG1124911-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA
Lab Number: L1821017
Report Date: 06/13/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/13/18 11:03
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/12/18 07:53

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01,04-05 Batch: WG1124911-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	43		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	60		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	63		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1124909-2 WG1124909-3								
Acenaphthene	64		57		37-111	12		30
1,2,4-Trichlorobenzene	50		48		39-98	4		30
Hexachlorobenzene	67		63		40-140	6		30
Bis(2-chloroethyl)ether	50		49		40-140	2		30
2-Chloronaphthalene	59		52		40-140	13		30
1,2-Dichlorobenzene	51		47		40-140	8		30
1,3-Dichlorobenzene	50		48		40-140	4		30
1,4-Dichlorobenzene	49		45		36-97	9		30
3,3'-Dichlorobenzidine	40		45		40-140	12		30
2,4-Dinitrotoluene	77		69		48-143	11		30
2,6-Dinitrotoluene	67		61		40-140	9		30
Fluoranthene	68		66		40-140	3		30
4-Chlorophenyl phenyl ether	66		61		40-140	8		30
4-Bromophenyl phenyl ether	67		62		40-140	8		30
Bis(2-chloroisopropyl)ether	46		43		40-140	7		30
Bis(2-chloroethoxy)methane	53		50		40-140	6		30
Hexachlorobutadiene	57		49		40-140	15		30
Hexachlorocyclopentadiene	52		46		40-140	12		30
Hexachloroethane	54		48		40-140	12		30
Isophorone	60		58		40-140	3		30
Naphthalene	56		51		40-140	9		30
Nitrobenzene	57		53		40-140	7		30
NDPA/DPA	66		63		40-140	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1124909-2 WG1124909-3								
n-Nitrosodi-n-propylamine	57		54		29-132	5		30
Bis(2-ethylhexyl)phthalate	65		65		40-140	0		30
Butyl benzyl phthalate	74		70		40-140	6		30
Di-n-butylphthalate	71		69		40-140	3		30
Di-n-octylphthalate	64		65		40-140	2		30
Diethyl phthalate	79		75		40-140	5		30
Dimethyl phthalate	67		66		40-140	2		30
Benzo(a)anthracene	62		64		40-140	3		30
Benzo(a)pyrene	61		65		40-140	6		30
Benzo(b)fluoranthene	63		62		40-140	2		30
Benzo(k)fluoranthene	55		69		40-140	23		30
Chrysene	60		62		40-140	3		30
Acenaphthylene	61		56		45-123	9		30
Anthracene	64		63		40-140	2		30
Benzo(ghi)perylene	52		56		40-140	7		30
Fluorene	68		64		40-140	6		30
Phenanthrene	60		61		40-140	2		30
Dibenzo(a,h)anthracene	50		55		40-140	10		30
Indeno(1,2,3-cd)pyrene	63		67		40-140	6		30
Pyrene	63		64		26-127	2		30
Biphenyl	60		53		40-140	12		30
4-Chloroaniline	54		46		40-140	16		30
2-Nitroaniline	59		55		52-143	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1124909-2 WG1124909-3								
3-Nitroaniline	70		64		25-145	9		30
4-Nitroaniline	67		65		51-143	3		30
Dibenzofuran	64		59		40-140	8		30
2-Methylnaphthalene	57		50		40-140	13		30
1,2,4,5-Tetrachlorobenzene	57		52		2-134	9		30
Acetophenone	56		52		39-129	7		30
2,4,6-Trichlorophenol	51		47		30-130	8		30
p-Chloro-m-cresol	64		58		23-97	10		30
2-Chlorophenol	50		49		27-123	2		30
2,4-Dichlorophenol	54		54		30-130	0		30
2,4-Dimethylphenol	57		56		30-130	2		30
2-Nitrophenol	48		43		30-130	11		30
4-Nitrophenol	49		43		10-80	13		30
2,4-Dinitrophenol	40		38		20-130	5		30
4,6-Dinitro-o-cresol	46		44		20-164	4		30
Pentachlorophenol	51		48		9-103	6		30
Phenol	39		40		12-110	3		30
2-Methylphenol	50		51		30-130	2		30
3-Methylphenol/4-Methylphenol	52		50		30-130	4		30
2,4,5-Trichlorophenol	58		49		30-130	17		30
Benzoic Acid	**0**	Q	**0**	Q	10-164	NC		30
Benzyl Alcohol	50		51		26-116	2		30
Carbazole	67		66		55-144	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,04 Batch: WG1124909-2 WG1124909-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	43		42		21-120
Phenol-d6	37		39		10-120
Nitrobenzene-d5	50		48		23-120
2-Fluorobiphenyl	50		46		15-120
2,4,6-Tribromophenol	62		59		10-120
4-Terphenyl-d14	61		58		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1124911-2 WG1124911-3								
Acenaphthene	69		81		40-140	16		40
2-Chloronaphthalene	63		75		40-140	17		40
Fluoranthene	70		83		40-140	17		40
Hexachlorobutadiene	59		69		40-140	16		40
Naphthalene	62		73		40-140	16		40
Benzo(a)anthracene	70		85		40-140	19		40
Benzo(a)pyrene	63		76		40-140	19		40
Benzo(b)fluoranthene	63		77		40-140	20		40
Benzo(k)fluoranthene	64		78		40-140	20		40
Chrysene	64		78		40-140	20		40
Acenaphthylene	71		85		40-140	18		40
Anthracene	67		79		40-140	16		40
Benzo(ghi)perylene	65		79		40-140	19		40
Fluorene	72		86		40-140	18		40
Phenanthrene	66		78		40-140	17		40
Dibenzo(a,h)anthracene	66		81		40-140	20		40
Indeno(1,2,3-cd)pyrene	64		79		40-140	21		40
Pyrene	68		81		40-140	17		40
2-Methylnaphthalene	63		74		40-140	16		40
Pentachlorophenol	70		77		40-140	10		40
Hexachlorobenzene	64		75		40-140	16		40
Hexachloroethane	57		67		40-140	16		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01,04-05 Batch: WG1124911-2 WG1124911-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		57		21-120
Phenol-d6	52		52		10-120
Nitrobenzene-d5	57		67		23-120
2-Fluorobiphenyl	56		66		15-120
2,4,6-Tribromophenol	71		82		10-120
4-Terphenyl-d14	57		68		41-149

METALS

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-01 Date Collected: 06/06/18 11:08

Client ID: MW10-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0369		mg/l	0.0100	0.00327	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00117		mg/l	0.00050	0.00016	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Calcium, Total	103.		mg/l	0.100	0.0394	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Iron, Total	0.144		mg/l	0.0500	0.0191	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Magnesium, Total	22.3		mg/l	0.0700	0.0242	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Manganese, Total	0.00923		mg/l	0.00100	0.00044	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Potassium, Total	0.867		mg/l	0.100	0.0309	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Sodium, Total	126.		mg/l	0.200	0.0293	1	06/09/18 11:10	06/11/18 18:18	EPA 3005A	1,6020A	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00337	J	mg/l	0.0100	0.00327	1	06/12/18 11:00	06/12/18 15:06	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00126		mg/l	0.00050	0.00016	1	06/12/18 11:00	06/12/18 15:06	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0267	J	mg/l	0.0500	0.0191	1	06/12/18 11:00	06/12/18 15:06	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.00604		mg/l	0.00100	0.00044	1	06/12/18 11:00	06/12/18 15:06	EPA 3005A	1,6020A	AM

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-04 Date Collected: 06/06/18 13:40

Client ID: MW5I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00566	J	mg/l	0.0100	0.00327	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00041	J	mg/l	0.00050	0.00016	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Calcium, Total	50.0		mg/l	0.100	0.0394	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Iron, Total	0.0711		mg/l	0.0500	0.0191	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Magnesium, Total	13.4		mg/l	0.0700	0.0242	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Manganese, Total	0.01607		mg/l	0.00100	0.00044	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Potassium, Total	2.68		mg/l	0.100	0.0309	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Sodium, Total	61.8		mg/l	0.100	0.0293	1	06/12/18 11:40	06/12/18 17:00	EPA 3005A	1,6020A	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00898	J	mg/l	0.0100	0.00327	1	06/12/18 11:00	06/12/18 15:10	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00032	J	mg/l	0.00050	0.00016	1	06/12/18 11:00	06/12/18 15:10	EPA 3005A	1,6020A	AM
Iron, Dissolved	0.0823		mg/l	0.0500	0.0191	1	06/12/18 11:00	06/12/18 15:10	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.01660		mg/l	0.00100	0.00044	1	06/12/18 11:00	06/12/18 15:10	EPA 3005A	1,6020A	AM

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

SAMPLE RESULTS

Lab ID: L1821017-05 Date Collected: 06/06/18 15:20

Client ID: MW16I-060618 Date Received: 06/06/18

Sample Location: WATERLOO, NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00639	J	mg/l	0.0100	0.00327	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Arsenic, Total	0.00073		mg/l	0.00050	0.00016	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Calcium, Total	107.		mg/l	0.100	0.0394	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Iron, Total	6.30		mg/l	0.0500	0.0191	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Magnesium, Total	19.3		mg/l	0.0700	0.0242	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Manganese, Total	0.3466		mg/l	0.00100	0.00044	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Potassium, Total	4.22		mg/l	0.100	0.0309	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Sodium, Total	62.0		mg/l	0.200	0.0293	1	06/09/18 11:10	06/11/18 18:38	EPA 3005A	1,6020A	AM
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/18 11:00	06/12/18 15:15	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.00062		mg/l	0.00050	0.00016	1	06/12/18 11:00	06/12/18 15:15	EPA 3005A	1,6020A	AM
Iron, Dissolved	5.91		mg/l	0.0500	0.0191	1	06/12/18 11:00	06/12/18 15:15	EPA 3005A	1,6020A	AM
Manganese, Dissolved	0.3395		mg/l	0.00100	0.00044	1	06/12/18 11:00	06/12/18 15:15	EPA 3005A	1,6020A	AM

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,05 Batch: WG1124238-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM
Sodium, Total	ND		mg/l	0.200	0.0293	1	06/09/18 11:10	06/11/18 17:03	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 01,04-05 Batch: WG1124955-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/12/18 11:00	06/12/18 14:41	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/12/18 11:00	06/12/18 14:41	1,6020A	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	06/12/18 11:00	06/12/18 14:41	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/12/18 11:00	06/12/18 14:41	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1125031-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Iron, Total	0.0195	J	mg/l	0.0500	0.0191	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM

Project Name: FORMER HAMPSHIRE CHEMICAL CORP **Lab Number:** L1821017

Project Number: 701970.01.SA **Report Date:** 06/13/18

Method Blank Analysis
Batch Quality Control

Potassium, Total	ND	mg/l	0.100	0.0309	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM
Sodium, Total	ND	mg/l	0.100	0.0293	1	06/12/18 11:40	06/12/18 15:09	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,05 Batch: WG1124238-2								
Aluminum, Total	101		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Calcium, Total	102		-		80-120	-		
Iron, Total	109		-		80-120	-		
Magnesium, Total	103		-		80-120	-		
Manganese, Total	96		-		80-120	-		
Potassium, Total	103		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 01,04-05 Batch: WG1124955-2								
Aluminum, Dissolved	105		-		80-120	-		
Arsenic, Dissolved	104		-		80-120	-		
Iron, Dissolved	109		-		80-120	-		
Manganese, Dissolved	99		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1125031-2					
Aluminum, Total	101	-	80-120	-	
Arsenic, Total	105	-	80-120	-	
Calcium, Total	102	-	80-120	-	
Iron, Total	109	-	80-120	-	
Magnesium, Total	99	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Potassium, Total	97	-	80-120	-	
Sodium, Total	100	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,05 QC Batch ID: WG1124238-3 QC Sample: L1820931-01 Client ID: MS Sample												
Aluminum, Total	0.080	2	2.09	100		-	-		75-125	-		20
Arsenic, Total	0.1698	0.12	0.3072	114		-	-		75-125	-		20
Calcium, Total	186.	10	181	**0**	Q	-	-		75-125	-		20
Iron, Total	154.	1	148	**0**	Q	-	-		75-125	-		20
Magnesium, Total	78.8	10	100	**212**	Q	-	-		75-125	-		20
Manganese, Total	1.424	0.5	1.838	83		-	-		75-125	-		20
Potassium, Total	231.	10	254	**230**	Q	-	-		75-125	-		20
Sodium, Total	648.	10	596	**0**	Q	-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 01,04-05 QC Batch ID: WG1124955-3 QC Sample: L1821017-01 Client ID: MW10-060618												
Aluminum, Dissolved	0.00337J	2	2.30	115		-	-		75-125	-		20
Arsenic, Dissolved	0.00126	0.12	0.1268	105		-	-		75-125	-		20
Iron, Dissolved	0.0267J	1	1.14	114		-	-		75-125	-		20
Manganese, Dissolved	0.00604	0.5	0.5276	104		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1125031-3 QC Sample: L1820832-01 Client ID: MS Sample										
Aluminum, Total	2.81	2	4.50	84		-	-	75-125	-	20
Arsenic, Total	0.0040	0.12	0.1334	108		-	-	75-125	-	20
Calcium, Total	10.2	10	20.1	99		-	-	75-125	-	20
Iron, Total	3.15	1	3.79	**64**	Q	-	-	75-125	-	20
Magnesium, Total	9.13	10	19.1	100		-	-	75-125	-	20
Manganese, Total	0.060	0.5	0.5448	97		-	-	75-125	-	20
Potassium, Total	5.52	10	14.9	94		-	-	75-125	-	20
Sodium, Total	130.	10	159	**290**	Q	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FORMER HAMPSHIRE CHEMICAL CORP

Project Number: 701970.01.SA

Lab Number: L1821017

Report Date: 06/13/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 01,04-05 QC Batch ID: WG1124955-4 QC Sample: L1821017-01 Client ID: MW10-060618						
Aluminum, Dissolved	0.00337J	ND	mg/l	NC		20
Arsenic, Dissolved	0.00126	0.00120	mg/l	5		20
Iron, Dissolved	0.0267J	0.0402J	mg/l	NC		20
Manganese, Dissolved	0.00604	0.00725	mg/l	18		20

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1821017-01A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-01B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-01C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-01D	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		MN-6020S(180),FE-6020S(180),AS-6020S(180),AL-6020S(180)
L1821017-01E	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		FE-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),MN-6020T(180),AS-6020T(180),AL-6020T(180),MG-6020T(180)
L1821017-01F	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-01G	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-01H	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-01I	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-02A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-02B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-02C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-03A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-03B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-03C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-04A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-04B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-04C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-04D	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		MN-6020S(180),FE-6020S(180),AS-6020S(180),AL-6020S(180)
L1821017-04E	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		FE-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),MN-6020T(180),AS-6020T(180),AL-6020T(180),MG-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: FORMER HAMPSHIRE CHEMICAL CORP
Project Number: 701970.01.SA

Lab Number: L1821017
Report Date: 06/13/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1821017-04F	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-04G	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-04H	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-04I	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1821017-05A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-05B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-05C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-05D	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		MN-6020S(180),FE-6020S(180),AS-6020S(180),AL-6020S(180)
L1821017-05E	Plastic 250ml HNO3 preserved	B	<2	<2	2.8	Y	Absent		FE-6020T(180),CA-6020T(180),K-6020T(180),NA-6020T(180),MN-6020T(180),AS-6020T(180),AL-6020T(180),MG-6020T(180)
L1821017-05F	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1821017-05G	Amber 250ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8270-SIM-LVI(7)
L1821017-06A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1821017-06B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER HAMPSHIRE CHEMICAL CORP	**Lab Number:**	L1821017
Project Number:	701970.01.SA	**Report Date:**	06/13/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER HAMPSHIRE CHEMICAL CORP	**Lab Number:**	L1821017
Project Number:	701970.01.SA	**Report Date:**	06/13/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

LT 8 21017

JACOBS

Chain of Custody Record

CH2M COC (YYYYMMDD-##):

LABORATORY: Alpha Analytical, 8 Walkup Dr, Westborough, MA 01581
(800) 624-9220
LABORATORY CONTACT: Ashaley Kane

PROJECT: Former Hampshire Chemical Corp., Waterloo, NY
PROJECT NUMBER: 703077.01.SA
EVENT: 2018 Annual Groundwater Sampling

PROJECT MANAGER & REPORT TO #1:
David Newman
299 Madison Ave., Morristown, NJ 07960
862.242.7061, david.newman@jacobs.com

PROJECT CONTACT & REPORT TO #2:
Shane Lowe
501 N Broadway, St. Louis, MO 63102
314.335.5075, shane.lowe@jacobs.com

PURCHASE ORDER # 703077
TURNAROUND TIME: Standard
DATA PACKAGE: Level IV
PROGRAM: RCRA

SAMPLER(s): Dan Holmes
SIGNATURE:

ANALYSES REQUESTED

PRESERVATIVE CODES (H=HCl, N=HNO_3, S=H_2SO_4, Zn=zinc acetate, B=NaOH, --=none)

SAMPLE IDENTIFICATION	GRAB/COMPOSITE	DATE	TIME	MATRIX	# CONTAINERS	H: VOCs + TICs (8260C)	N: Total Metals (6010C)(Al, As, Ca, Cr, Fe, K, Mg, Mn, Na)	N: Dissolved Metals (6010C)(Al, As, Cr, Fe, Mn) Field Filtered	N: Total Metals (6010C)(Al, As, Ca, Fe, K, Mg, Mn, Na)	N: Dissolved Metalsb (6010C) (Al, As, Fe, Mn) Field Filtered	--: Anions (300.0) (Cl^{1-}, $SO4^{2-}$)	--: Nitrate (353.2)	--: Alkalinity (310.2)	S: Total Phosphorous (365.4)	S: TOC (SM5310)	S: Ammonia (350.1)	S: TKN (351.2)	--: Orthophosphate(SM4500PE) Field Filtered	--: TDS (SM2540)	Z,B: Total Sulfide (SM 4500)	N: Silica (200.7)	--: SVOCs + TICs (8270C)	--: PAHs (8270D SIM)	Additional Requirements
MW10-060618	G	6/6/18	1108	GW	9	✓			✓	✓												✓	✓	
FB-060618-1	G	6/6/18	1110	W	2	✓																		
FB-060618-2	G	6/6/18	1320	W	2	✓																		
MW5I-060618	G	6/6/18	1340	GW	9	✓			✓	✓												✓	✓	
MW16I-060618	G	6/6/18	1520	GW	7	✓			✓	✓													✓	
TB-060618-1	G	6/6/18	0810	W	2	✓																		

1. RELINQUISHED BY (Signature)	DATE	TIME	1. RECEIVED BY (Signature)	DATE	TIME	ADDITIONAL REMARKS/INSTRUCTIONS:
	6/6/18		S. Hong AAL	6/6/18	17:00	
2. RELINQUISHED BY (Signature)	DATE	TIME	2. RECEIVED BY (Signature)	DATE	TIME	
S. Hong AAL	6/6/18	17:00		6/7/18	0055	
3. RELINQUISHED BY (Signature)	DATE	TIME	3. RECEIVED BY (Signature)	DATE	TIME	

PAGE _____ of _____