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Groundwater Monitoring Summary Report

Site #907022 – Al-Tech Specialty Steel Corporation
Willowbrook Avenue
Dunkirk, New York

January 18, 2021

Version 1.0

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Prepared for:
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New York State Department of Environmental Conservation
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Date:
January 18, 2021

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Acronyms

DUP	Sample duplicate
DUSR	Quality Assessment Data Usability Summary Report
fmsl	Feet above mean sea level
fbtoc	Feet below top-of-casing
GES	Groundwater & Environmental Services, Inc.
GMSR	Groundwater Monitoring Summary Report
GPS	Global positioning system
HDPE	High density polyethylene
MPS	Multi probe system
MS	Matrix spike
MSD	Matrix spike duplicate
ND	Non-detect
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated biphenyl
PFAS	Perfluoroalkyl and polyfluoroalkyl substance(s)
PPE	Personal protective equipment
SVOC	Semi-volatile organic compound
TCA	1,1,1-Trichloroethane
TestAmerica	TestAmerica Laboratories, Inc.
TOGS 1.1.1 WQS	*Technical and Operation Guidance Series 1.1.1 Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations*, amended April 2000
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

1 Introduction

Groundwater and Environmental Services, Inc. (GES) has prepared this *Groundwater Monitoring Summary Report* (GMSR) to summarize the groundwater gauging and sampling activities conducted at Site #907022 – Al-Tech Specialty Steel Corporation (the "Site") from December 9, 2020 to December 10, 2020. Sampling activities were completed to analyze groundwater throughout the Lucas Ave. portion of the Site for the presence of volatile organic compounds (VOCs), and metals.

2 Site Location

The Site is a part of New York State Department of Environmental Conservation (NYSDEC) State Superfund Program and referred to as Site #907022. The Site is located at the intersection of Willowbrook Avenue and Brigham Road between Willowbrook Avenue and West Lucas Avenue in Dunkirk, New York as shown in the Site Location Map (**Figure 1**) and Site Map (**Figure 2**). The area surrounding the Site consists of residential and commercial properties as well as a school.

3 Groundwater Monitoring Activities

3.1 Groundwater Gauging and Sampling

Prior to sampling, depth to groundwater data was collected from twenty-one (21) monitoring wells using an electronic sonic oil/water interface probe. Adjusted groundwater elevations were determined utilizing the May and June 2018 depth to water measurements and historic top of riser survey elevations provided in Table 1 of the *Groundwater Monitoring Summary Report* (Benchmark Environmental Engineering & Science, PLLC, October 5, 2011). Historic top of riser elevations were reported in feet above mean sea level (fmsl). Adjusted groundwater elevations collected at the Site on December 9, 2020 ranged from 2.04 feet below top of casing (fbtoc) at MW-6 to 22.41 fbtoc at RFI-34. Groundwater at the Site generally flows toward the northwest. Groundwater gauging measurements and groundwater elevations are provided in **Table 1.**

GES personnel performed groundwater sampling from December 9, 2020 through December 10, 2020, following United States Environmental Protection Agency's (USEPA) *Low-Flow Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (Revised January 19, 2010).

Groundwater samples were collected from twenty-one (22) monitoring wells for analysis of a variety of analyses including VOCs, and metals. Additionally, eleven (11) monitoring wells were analyzed for hexavalent chromium (CrVI) (TW-5A, TW-6, TW-7, TW-8, TW-9, TW-12, TW-13, TW-14, TW-15, RFI-08A, and MW-6). Each low-flow sampling set-up included a YSI DDS PRO series multi-meter with flow through cell attachment to monitor groundwater quality stability prior to sampling. To conduct low-flow sampling, a peristaltic pump was utilized at each monitoring well. High density polyethylene (HDPE) tubing was inserted into the well to recover groundwater and silicon tubing was utilized at the pump and flow through cell interface.

Recovered groundwater was stored in laboratory-supplied bottleware. Upon completion of sampling activities, the coolers were delivered to Eurofins Laboratories (Eurofins) facility located in Amherst, New York for analysis of VOCs, and metals.

3.2 Laboratory Sample Analysis: Quality Assurance/Quality Control

Eurofins in Amherst, New York analyzed the groundwater samples collected at the Site. Eurofins provided full category B deliverables with laboratory analytical data and are included as **Appendix A**. Additionally, a Quality Assessment Data Usability Summary Report (DUSR) was performed by RemVer, Inc. of Colchester Connecticut and is included as **Appendix B**. RemVer found all results included in the laboratory analytical reports to be acceptable for use.

Care was taken during all aspects of the sample collection to ensure that high quality data was obtained. Duplicate (DUP) samples, matrix spike, and matrix spike duplicate (MS/MSD) samples were collected for every twenty (20) field samples and submitted for analysis to assure quality of both the sample collection procedure and the laboratory preparation/analytical method. All samples were submitted to Eurofins under proper chain of custody.

4 Analytical Results

The laboratory analytical data is summarized in **Table 2** and **Table 3**. Detected analytical concentrations were compared to NYSDEC Technical and Operation Guidance Series 1.1.1 *Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations*, amended April 2000 (TOGS 1.1.1 WQS). The groundwater monitoring maps which plot groundwater concentrations of select analytes across the Site are included as **Figure 3** and **Figure 4**. The following is a summary of the laboratory analytical results:

4.1 Volatile Organic Compounds

Based on the laboratory analytical results, groundwater in four (4) monitoring wells (LAE-4, RFI-26, RFI-31, and RFI-34) was found to contain concentrations of VOCs that exceed the TOGS 1.1.1 WQS. Benzene, cis-1,2-dichloroethene, trichloroethene, and vinyl chloride exceeded TOGS 1.1.1 WQS in one (1) or more of the monitoring well samples listed above. Groundwater analytical data for VOCs are summarized in **Table 2**. Exceedances are shown on **Figure 3**.

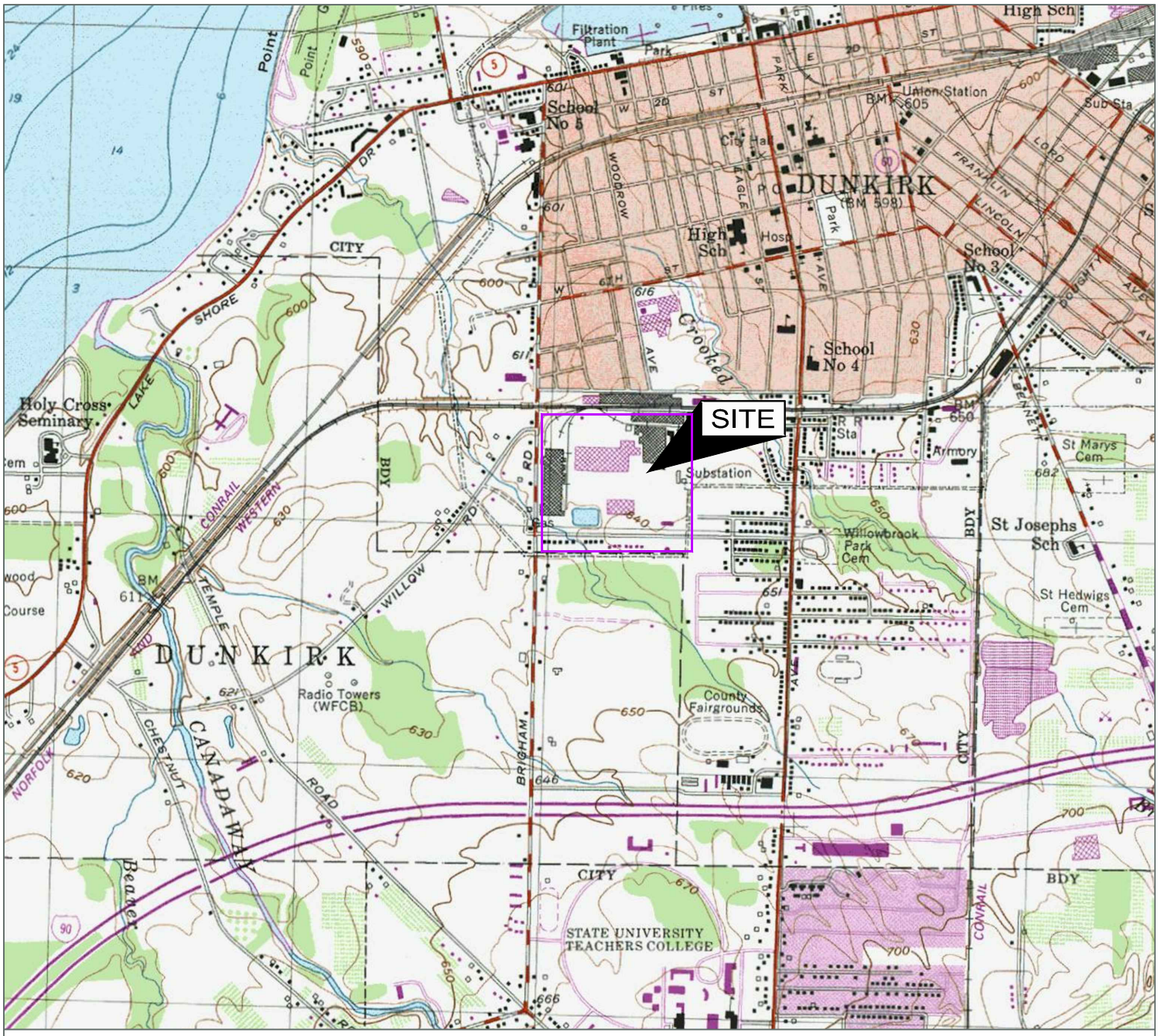
4.2 Metals

Based on the laboratory analytical results, groundwater in nineteen (19) monitoring wells (LAE-4, MW-6, RFI-05A, RFI-18, RFI-08A, RFI-26, RFI-27, RFI-31, RFI-34, RFI-35, TW-5A, TW-12, TW-13, TW-14, TW-15, TW-6, TW-7, TW-8, TW-9) were found to contain concentrations of metals that exceed the TOGS 1.1.1 WQS. Chromium, Iron, Magnesium, and Manganese, exceeded TOGS 1.1.1 WQS in one (1) or more of the monitoring well samples listed above. Two monitoring wells (TW-7, and TW-15) were found to contain concentrations of Chromium VI that exceeds the TOGS 1.1.1 WQS. Groundwater analytical data for metals and Chromium VI are summarized in **Table 3**. Exceedances are shown on **Figure 4**.

5 Conclusions

GES conducted groundwater monitoring activities at the Site on December 9, 2020 and December 10, 2020. Sampling activities were completed to analyze groundwater at twenty-one (21) monitoring wells throughout the Lucas Ave. portion of the Site for the presence of VOCs, and metals. Based on the findings of the December 2020 groundwater monitoring event, groundwater beneath the Site contains VOCs, and metals at concentrations that exceed the TOGS 1.1.1 WQS.

Figures



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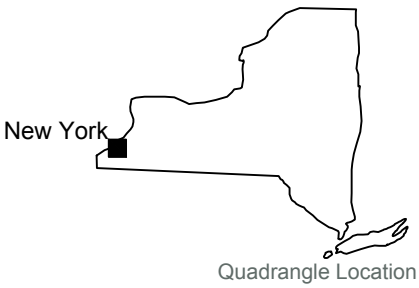
USGS 7.5 Minute Series
Topographic Quadrangle, 1979
Dunkirk, New York
Contour Interval = 10'



Quadrangle Location

Site Location Map

NYSDEC
Former Al Tech Specialty Steel Corp
Willowbrook Pond Operable Unit
Dunkirk, New York

Drawn
W.G.S.
Designed

Approved
PC

Date
4/25/19
Figure
1

N

Scale In Feet
0 2000

GES
Groundwater & Environmental Services, Inc.

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LEGEND

- MONITORING WELL
- UNDERGROUND GAS LINE

Site Map

NYSDEC
Former Al Tech Specialty Steel Corp
Willowbrook Pond Operable Unit
Dunkirk, New York

Drawn W.G.S.
Designed
Approved PC
Date 10/14/20
Figure 2

Scale In Feet
0 250

Groundwater & Environmental Services, Inc.

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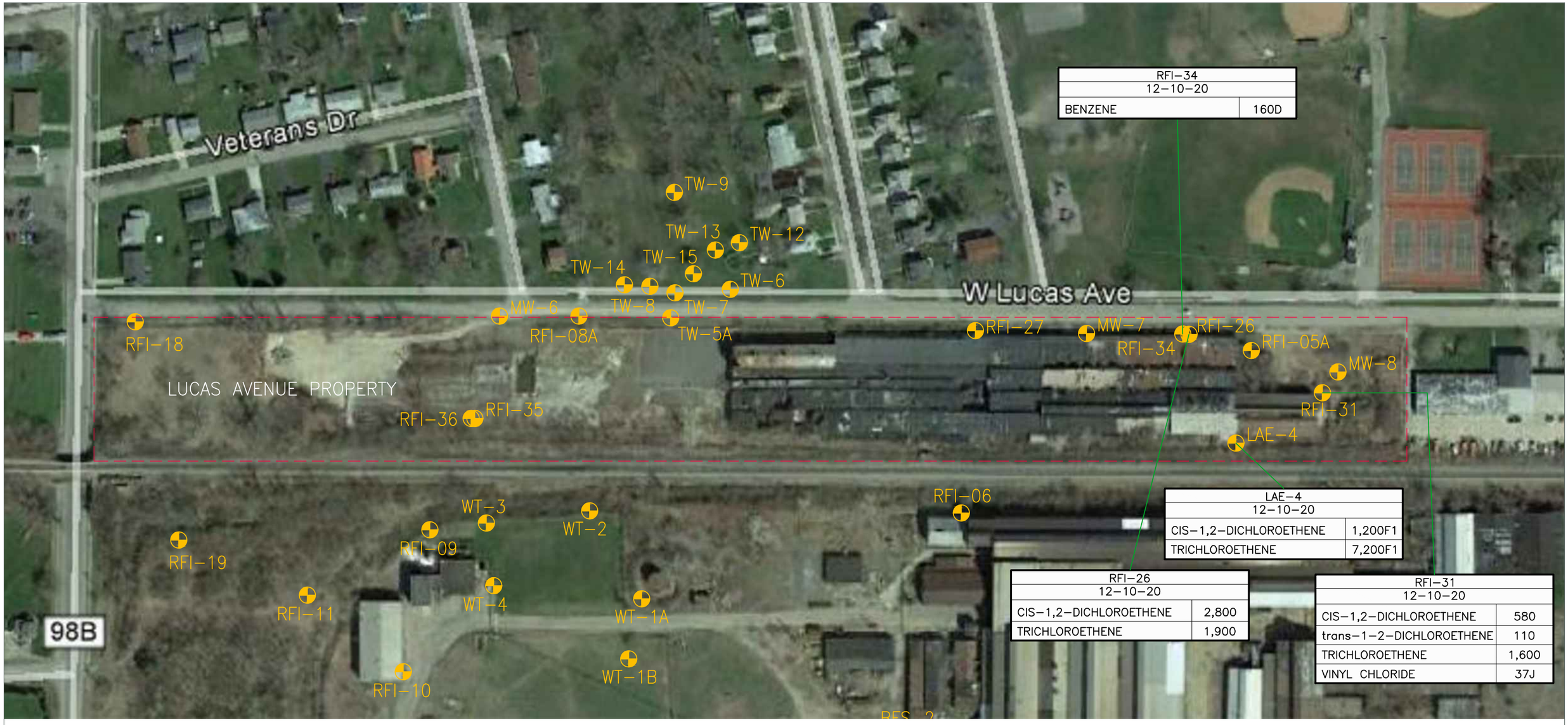


RFI-34	
12-10-20	
BENZENE	160D

LAE-4	
12-10-20	
CIS-1,2-DICHLOROETHENE	1,200F1
TRICHLOROETHENE	7,200F1

RFI-26	
12-10-20	
CIS-1,2-DICHLOROETHENE	2,800
TRICHLOROETHENE	1,900

RFI-31	
12-10-20	
CIS-1,2-DICHLOROETHENE	580
trans-1-2-DICHLOROETHENE	110
TRICHLOROETHENE	1,600
VINYL CHLORIDE	37J

LEGEND

- MONITORING WELL

TOGS 1.1.1 WQS AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS, AMENDED APRIL 2000

F1 MATRIX SPIKE AND/OR MATRIX DUPLICATE RECOVERY IS OUTSIDE ACCEPTANCE LIMITS

J APPROXIMATE CONCENTRATION

NOTES:

ALL ANALYTICAL DATA REPORTED IN MICROGRAMS PER LITER (ug/L)

ONLY ANALYTICAL EXCEEDING TOGS 1.1.1 WQS IS SHOWN.

Groundwater VOCs Exceedance
December 2020

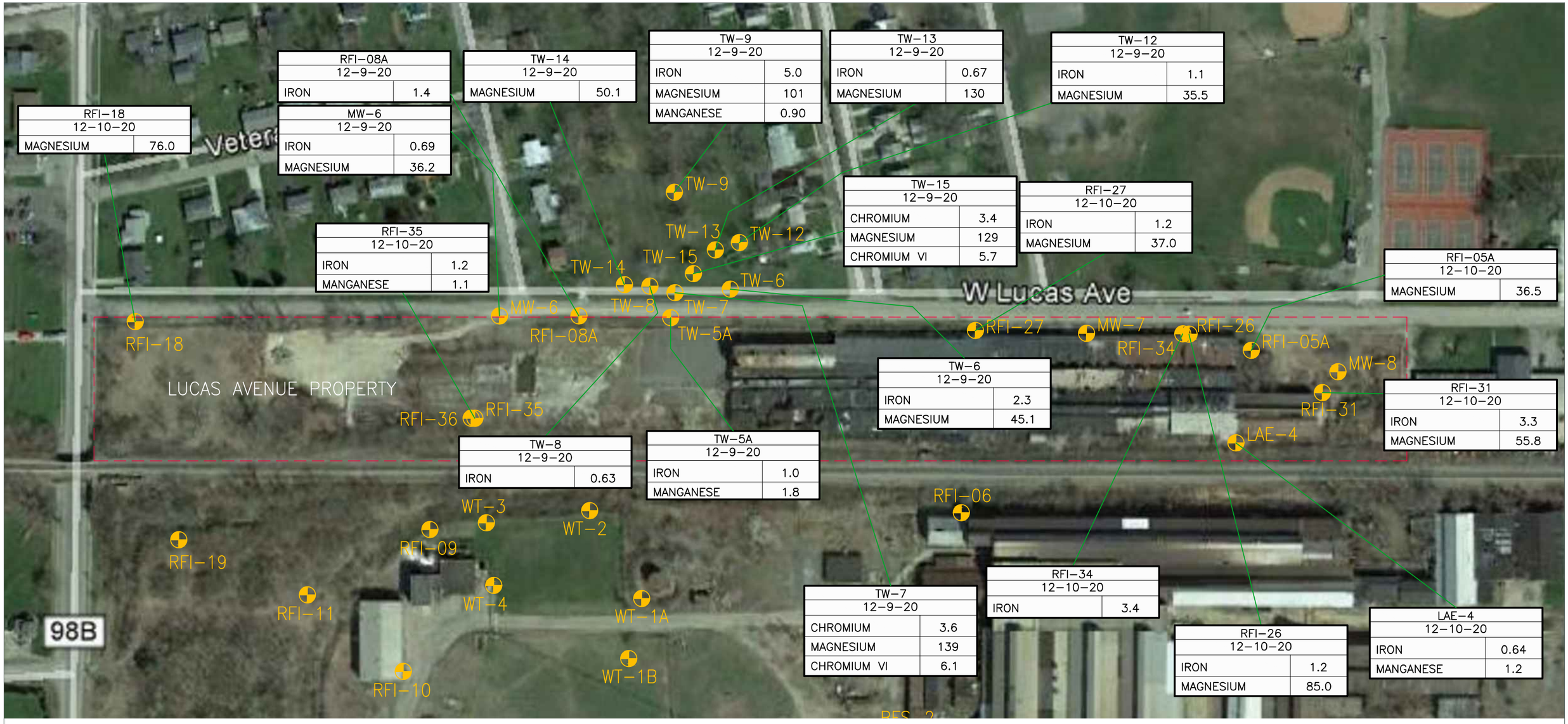
NYSDEC
Former Al Tech Specialty Steel Corp
Lucas Avenue
Dunkirk, New York

Drawn W.G.S.
Designed
Approved PC
Date 1/18/21
Figure 3

Scale In Feet
0 150

Groundwater & Environmental Services, Inc.

M:\Graphics\0900-Buffalo\NYSDEC\Dunkirk-altec\Dunkirk-altec SM.dwg, SM150-lucas, WShea



LEGEND

- MONITORING WELL
- TOGS 1.1.1 WQS AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS, AMENDED APRIL 2000
- B ALSO FOUND IN METHOD BLANK

NOTES:

ALL ANALYTICAL DATA REPORTED IN MICROGRAMS PER LITER (ug/L)

ONLY ANALYTICAL EXCEEDING TOGS 1.1.1 WQS IS SHOWN.

Groundwater Metals Exceedance
December 2020

NYSDEC
Former Al Tech Specialty Steel Corp
Lucas Avenue
Dunkirk, New York

Drawn W.G.S.
Designed
Approved PC
Date 1/12/21
Figure 4

Scale In Feet
0 150

Groundwater & Environmental Services, Inc.

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Tables

Table 1
Groundwater Monitoring Data

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to Product (ft)	Adjusted GW Elevation (ft)	Longitude (deg)	Latitude (deg)
Lucas Avenue							
RFI-05A	12/09/2020	NSD	6.74	NP	NA	-79.339339072	42.474331855
RFI-08A	12/09/2020	NSD	4.25	NP	NA	-79.343230961	42.474453545
RFI-18	12/09/2020	621.52	15.94	NP	605.58	-79.345798840	42.474411491
RFI-26	12/09/2020	631.07	8.81	NP	622.26	-79.339699950	42.474398310
RFI-27	12/09/2020	633.68	8.11	NP	625.57	-79.340936675	42.474406397
RFI-31	12/09/2020	631.72	7.54	NP	624.18	NA	NA
RFI-34	12/09/2020	NSD	22.41	NP	NA	-79.339736090	42.474399532
RFI-35	12/09/2020	NSD	8.65	NP	NA	-79.343827852	42.474011186
RFI-36	12/09/2020	NSD	8.88	NP	NA	-79.343850008	42.474010881
MW-6	12/09/2020	NSD	2.04	NP	NA	-79.343690541	42.474450261
MW-7	12/09/2020	NSD	7.98	NP	NA	-79.340292779	42.474398019
MW-8	12/09/2020	NSD	6.74	NP	NA	-79.338836717	42.474243242
LAE-4	12/09/2020	632.28	2.21	NP	630.07	-79.339422691	42.473934933
TW-6	12/09/2020	NSD	5.44	NP	NA	-79.342357359	42.474573845
TW-7	12/09/2020	NSD	5.43	NP	NA	NA	NA
TW-8	12/09/2020	NSD	5.17	NP	NA	-79.342822424	42.474583470
TW-9	12/09/2020	NSD	6.39	NP	NA	-79.342685584	42.474986496
TW-12	12/09/2020	NSD	7.84	NP	NA	-79.342306736	42.474773914
TW-13	12/09/2020	NSD	6.71	NP	NA	-79.342445259	42.474741125
TW-14	12/09/2020	NSD	5.76	NP	NA	-79.342969828	42.474588953
TW-15	12/09/2020	630.54	7.24	NP	623.30	-79.342571158	42.474638916

Notes:

deg = degrees
ft = feet
GW = Groundwater
DRY = No water for sampling
NA = Not Applicable
NP = No Product
NSD = No Survey Data

Table 2

Groundwater Analytical Data Summary: Volatile Organic Compounds

Sample Location		LAE-4	MW-6	MW-7	MW-8	RFI-08A	RFI-05A	RFI-18	RFI-26	RFI-27	RFI-31	RFI-34	RFI-35	RFI-36
Sample Date		12/10/2020	12/9/2020	12/10/2020	12/10/2020	12/9/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020
Analytes (Method 8260C)	TOGS 1.1.1 WQS (ug/L)	Concentrations reported in micrograms per liter (ug/L)												
1,1,1-Trichloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2,2-Tetrachloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloroethane	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2,4-Trichlorobenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromo-3-chloropropane	0.04	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloroethane	0.6	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloropropane	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,3-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,4-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
2-Butanone (MEK)	50	ND < 1000 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 400	ND < 10 U	ND < 400	ND < 20 U	ND < 10 U	ND < 10 U
2-Hexanone	50	ND < 500 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 200	ND < 5.0 U	ND < 200	ND < 10.0 U	ND < 5.0 U	ND < 5.0 U
4-Methyl-2-pentanone (MIBK)	-	ND < 500 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 200	ND < 5.0 U	ND < 200	ND < 10.0 U	ND < 5.0 U	ND < 5.0 U
Acetone	50	ND < 1000 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 400	ND < 10 U	ND < 400	ND < 10.0 U	ND < 10 U	ND < 10 U
Benzene	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	**30**	ND < 1.0 U	ND < 1.0 U
Bromodichloromethane	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Bromoform	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Bromomethane	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Carbon Disulfide	60	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Carbon tetrachloride	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Chlorobenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Dibromochloromethane	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Chloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Chloroform	7	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Chloromethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,2-Dichloroethene	5	**1,200 F1**	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	**2,800**	ND < 1.0 U	**580**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,3-Dichloropropene	0.4	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Cyclohexane	-	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	0.42 J	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 41	3.5	ND < 1.0 U	ND < 1.0 U
Dichlorodifluoromethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Ethylbenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromoethane	0.0006	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Isopropylbenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Methyl acetate	-	ND < 250 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 100	ND < 2.5 U	ND < 100	ND < 5.0 U	ND < 2.5 U	ND < 2.5 U
Methyl tert-butyl ether	10	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Methylcyclohexane	-	ND < 100 U	0.17 J	ND < 1.0 U	ND < 1.0 U	0.66 J	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	0.90 J	ND < 1.0 U	ND < 1.0 U
Methylene chloride	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 41	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Styrene	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Tetrachloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Toluene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,2-Dichloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	**110**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,3-Dichloropropene	0.4	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Trichloroethene	5	**7,200 F1**	ND < 1.0 U	2.6 J	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	**1,900**	ND < 1.0 U	**1,600**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Trichlorofluoromethane	5	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Vinyl Chloride	2	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	**37 J**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U
Xylenes, Total	5	ND < 200 U F1	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 80	ND < 2.0 U	ND < 80	ND < 4.0 U	ND < 2.0 U	ND < 2.0 U

NOTES:

Bold values indicate analytical result exceedes TOGS 1.1.1 WQS

TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000

µg/L = micrograms per liter

U = Analyte analyzed for, but not detected above the sample's reported quantitation limit

- = no published regulatory standard

J = Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample or Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample

aqueous equipment (EB), trip (TB), or bottle

NA = not analyzed

J+/- = Sample likely to have a high/low bias, respectively

F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outsdie acceptance limits

F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

* = Isotope dilution analyte is outside acceptance limits; laboratory control sample or laboratory control sample duplicate is outside acceptance limits

Table 2

Groundwater Analytical Data Summary: Volatile Organic Compounds

Sample Location		TW-12	TW-13	TW-14	TW-15	TW-5A	TW-6	TW-7	TW-8	TW-9
Sample Date		12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020
Analytes (Method 8260C)	**TOGS 1.1.1 WQS (ug/L)**	**Concentrations reported in micrograms per liter (ug/L)**								
1,1,1-Trichloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2,2-Tetrachloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloroethane	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2,4-Trichlorobenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromo-3-chloropropane	0.04	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloroethane	0.6	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloropropane	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,3-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,4-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
2-Butanone (MEK)	50	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U
2-Hexanone	50	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
4-Methyl-2-pentanone (MIBK)	-	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
Acetone	50	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U
Benzene	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromodichloromethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromoform	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromomethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon Disulfide	60	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon tetrachloride	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chlorobenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dibromochloromethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroform	7	0.52 J	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,2-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,3-Dichloropropene	0.4	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Cyclohexane	-	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dichlorodifluoromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Ethylbenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromoethane	0.0006	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Isopropylbenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methyl acetate	-	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U
Methyl tert-butyl ether	10	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylcyclohexane	-	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylene chloride	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Styrene	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Tetrachloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Toluene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,2-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,3-Dichloropropene	0.4	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichlorofluoromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Vinyl Chloride	2	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Xylenes, Total	5	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U

NOTES:
Bold values indicate analytical result exceedes TOGS 1.1.1 WQS
TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance
µg/L = micrograms per liter
U = Analyte analyzed for, but not detected above the sample's re
- = no published regulatory standard
J = Analyte positively identified at a numerical value that is the ap
aqueous equipment (EB), trip (TB), or bottle
NA = not analyzed
J+/- = Sample likely to have a high/low bias, respectively
F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outs
F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Differe
* = Isotope dilution analyte is outside acceptance limits; laborator

Table 3

Groundwater Analytical Data Summary: Metals

Sample Location		LAE-4	MW-6	MW-7	MW-8	RFI-05A	RFI-18	RFI-08A	RFI-26	RFI-27	RFI-31	RFI-34
Sample Date		12/10/2020	12/9/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020	12/9/2020	12/10/2020	12/10/2020	12/10/2020	12/10/2020
Analytes (Method 6010C)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Aluminum	-	0.79	ND < 0.20 U	ND < 0.20 U	ND < 0.20 U	ND < 0.20 U	ND < 0.20 U	0.19 J	ND < 0.20 U	0.50	0.15 J	2.0
Antimony	0.006	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Arsenic	0.05	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U
Barium	2.00	0.083 ^6+	1.3 ^6+	0.058 ^6+	0.55 ^6+	0.091 ^6+	0.11 ^6+	1.5 ^6+	0.25 ^6+	0.091 ^6+	0.052 ^6+	0.32 ^6+
Beryllium	0.003	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U
Cadmium	0.01	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.00067 J	ND < 0.0020 U	0.00073 J	0.00089 J	ND < 0.0020 U	0.00053 J
Calcium	-	119	103	172	46.7	161	188	130	163	147	195	73.9
Chromium	1.00	0.0014 J	ND < 0.0040 U	0.0033 J	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	0.0012 J	ND < 0.0040 U	0.0010 J	ND < 0.0040 U	0.020
Cobalt	-	0.0044	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	0.039	0.0013 J	0.0016 J
Copper	1.00	ND < 0.010 U	ND < 0.010 U	0.011	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0055 J
Iron	0.60	**0.64**	**0.69**	0.087	0.066	0.037 J	0.42	**1.4**	**1.2**	**1.2**	**3.3**	**3.4**
Lead	0.050	0.0035 J	ND < 0.010 U	0.0069 J	ND < 0.010 U	ND < 0.010 U	0.0037 J	ND < 0.010 U	0.0031 J	0.0043 J	0.0031 J	0.016
Magnesium	35.0	26.1	**36.2**	25.6	7.3	**36.5**	**76.0**	34.6	**85.0**	**37.0**	**55.8**	29.8
Manganese	0.60	**1.2**	0.050	0.040	0.048	0.038	0.20	0.16	0.11	10.1	0.16	0.077
Nickel	0.20	0.0052 J	ND < 0.010 U	0.0063 J	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0016 J	ND < 0.010 U	0.042	0.0041 J	0.015
Potassium	-	1.1	4.5	7.3	1.3	1.1	6.4	6.6	4.5	2.5	2.4	4.3
Selenium	0.02	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U
Silver	0.10	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U
Sodium	-	17.2	127	25.9	188	16.4	266	138	48.5	35.6	426	110
Thallium	0.0005	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Vanadium	-	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	0.0021 J	0.0071
Zinc	5.0	0.0033 J B	ND < 0.010 U	0.012 B	0.0025 J B	0.0018 J B	ND < 0.010 U	0.018 B	0.0015 J B	0.010 B	0.0029 J B	0.035 B
Analyte (Method 7470A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Mercury	0.0014	ND< 0.00020 U	ND < 000020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U
Analyte (Method 7196A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Chromium VI	0.10	-	ND < 0.010 U	-	-	-	-	0.0084 J	-	-	-	-

NOTES:
Bold values indicate analytical result exceedes TOGS 1.1.1 WQS
TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000
mg/L = milligrams per liter
U = Analyte analyzed for, but not detected above the sample's reported quantitation limit
- = no published regulatory standard
J = Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample or Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
B = An analyte identified in method blank (B), aqueous equipment (EB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results.
NA = not analyzed
J+/- = Sample likely to have a high/low bias, respectively
F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outsdie acceptance limits
F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits
* = Isotope dilution analyte is outside acceptance limits; laboratory control sample or laboratory control sample duplicate is outside acceptance limits

Table 3

Groundwater Analytical Data Summary: Metals

Sample Location		RFI-35	RFI-36	TW-12	TW-13	TW-14	TW-15	TW-5A	TW-6	TW-7	TW-8	TW-9
Sample Date		12/10/2020	12/10/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020	12/9/2020
Analytes (Method 6010C)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Aluminum	-	0.11 J	ND < 0.20 U	0.16 J	0.093 J	0.14 J	ND < 0.20 U	0.18 J	1.8	0.087 J	0.45	ND < 0.20 U
Antimony	0.006	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020
Arsenic	0.05	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND <0.015 U	ND < 0.015 U	0.023	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U
Barium	2.00	0.26 ^6+	0.094 ^6+	0.049 ^6+	0.034 ^6+	0.48 ^6+	0.079 ^6+	0.23 ^6+	0.14 ^6+	0.10 ^6+	0.079 ^6+	0.029 ^6+
Beryllium	0.003	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020	ND < 0.0020 U	ND < 0.0020 U	ND < 0.020
Cadmium	0.01	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.0073	ND < 0.0020 U	0.0072	0.00064 J	0.031	0.00062 J
Calcium	-	150	53.0	135	399	190	372	53.0	186	383	104	421
Chromium	1.00	ND < 0.0040 U	ND < 0.0040 U	0.0012 J	ND < 0.0040 U	ND < 0.0040 U	**3.4**	0.0066	0.015	**3.6**	0.0039 J	ND < 0.0040 U
Cobalt	-	0.00068 J	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	0.0011 J	0.00074 J	0.0031 J	0.0011 J	0.0029 J	0.00076 J	0.0096
Copper	1.00	ND < 0.010 U	ND < 0.010 U	0.0036 J	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0064 J	ND < 0.010 U	0.0092 J	ND < 0.010 U
Iron	0.60	**1.2**	0.076	**1.1**	**0.67**	0.40	0.11	**1.0**	**2.3**	0.098	**0.63**	**5.0**
Lead	0.050	0.0030 J	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0031 J	ND < 0.010 U	ND < 0.010 U	0.033	ND < 0.010 U	0.0078 J	0.0030 J
Magnesium	35.0	21.6	17.2	**35.5**	**130**	**50.1**	**129**	15.5	**45.1**	**139**	31.9	**101**
Manganese	0.60	**1.1**	0.034	0.020	0.099	0.27	0.039	**1.8**	0.083	0.13	0.058	**0.90**
Nickel	0.20	ND < 0.010 U	ND < 0.010 U	0.0028 J	0.0030 J	0.0044 J	0.0076 J	0.0043 J	0.0095 J	0.0072 J	0.013	0.019
Potassium	-	5.2	5.5	3.4	7.8	4.6	9.1	1.4	13.3	10.4	7.9	2.3
Selenium	0.02	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U
Silver	0.10	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0050	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U
Sodium	-	15.8	326	134	349	801	1120	319	590	1240	181	52.9
Thallium	0.0005	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Vanadium	-	ND < 0.0050 U	0.0025 J	ND < 0.0050 U	ND < 0.0050	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	0.0034 J	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U
Zinc	5.0	0.0094 J B	0.0053 J B	0.43 B	0.015 B	0.042 B	0.18 B	0.016 B	0.048 B	0.0028 JB	0.047 B	ND < 0.010 U
Analyte (Method 7470A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Mercury	0.0014	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020
Analyte (Method 7196A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										
Chromium VI	0.10	-	-	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	**5.7**	ND < 0.010 U	ND < 0.010 U	**6.1**	0.063	ND < 0.010 U

NOTES:
Bold values indicate analytical result exceedes TOGS 1.1.1 WQS
TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000
mg/L = milligrams per liter
U = Analyte analyzed for, but not detected above the sample's reported quantitation limit
- = no published regulatory standard
J = Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample or Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit and precisely measure the analyte in the sample of quantitation necessary to accurately
B = An analyte identified in method blank (B), aqueous equipment (EB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results.
NA = not analyzed
J+/- = Sample likely to have a high/low bias, respectively
F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outsdie acceptance limits
F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits
* = Isotope dilution analyte is outside acceptance limits; laboratory control sample or laboratory control sample duplicate is outside acceptance limits

Appendix A – Category B Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-179177-1
Client Project/Site: Al Tech Specialty Steel #907022

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Damianos Skaros

Authorized for release by:
12/22/2020 9:10:50 AM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Orlette Johnson
Senior Project Manager
12/22/2020 9:10:50 AM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-179177-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-179177-1

Receipt
The samples were received on 12/9/2020 3:30 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7º C.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. RFI-08A (480-179177-1), TW-6 (480-179177-2), TW-7 (480-179177-3), TW-7 (480-179177-3[MS]), TW-7 (480-179177-3[MSD]), DUP-120920 (480-179177-4), TW-8 (480-179177-5), TW-9 (480-179177-6), TW-12 (480-179177-7), TW-13 (480-179177-8), TW-14 (480-179177-9), TW-15 (480-179177-10), MW-6 (480-179177-11), TW-5A (480-179177-12), (LCS 480-562792/2-A), (MB 480-562792/1-A), (480-179177-A-3-A PDS) and (480-179177-A-3-A SD ^5)

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

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: RFI-08A — Lab Sample ID: 480-179177-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.42	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.66	J	1.0	0.16	ug/L	1		8260C	Total/NA
Aluminum	0.19	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	1.5	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	130		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	1.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	34.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.16		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0016	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	138		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.018	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.0084	J	0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: TW-6 — Lab Sample ID: 480-179177-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	1.8		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.14	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0072		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	186		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.015		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0011	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0064	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.033		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	45.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.083		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0095	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	13.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	590		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0034	J	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.048	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-7 — Lab Sample ID: 480-179177-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.087	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.10	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00064	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	383		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	3.6		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0029	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.098		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	139		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.13		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0072	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	10.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1240		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.0028	J B	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	6.1		1.0	0.50	mg/L	100		7196A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: DUP-120920 — Lab Sample ID: 480-179177-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.16	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.094	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00076	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	384		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	3.6		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0028	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.15		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	137		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.12		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0078	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	10.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1240		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.0018	J B	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	6.0		1.0	0.50	mg/L	100		7196A	Total/NA

Client Sample ID: TW-8 — Lab Sample ID: 480-179177-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.45		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.079	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.031		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	104		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0039	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0092	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.63		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0078	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	31.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.058		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.013		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	181		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.047	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.063		0.010	0.0050	mg/L	1		7196A	Total/NA

Client Sample ID: TW-9 — Lab Sample ID: 480-179177-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00062	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	421		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0096		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	5.0		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	101		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.90		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.019		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	52.9		1.0	0.32	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: TW-12 — Lab Sample ID: 480-179177-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.52	J	1.0	0.34	ug/L	1		8260C	Total/NA
Aluminum	0.16	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.049	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	135		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0012	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0036	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	35.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.020		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0028	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	3.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	134		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.43	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-13 — Lab Sample ID: 480-179177-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.093	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.034	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	399		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.67		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	130		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.099		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0030	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	349		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.015	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-14 — Lab Sample ID: 480-179177-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.14	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.48	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	190		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0011	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.40		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	50.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.27		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0044	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	4.6		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	801		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.042	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-15 — Lab Sample ID: 480-179177-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.079	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0073		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	372		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	3.4		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.00074	J	0.0040	0.00063	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: TW-15 (Continued) — Lab Sample ID: 480-179177-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.11		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	129		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.039		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0076	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	9.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1120		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.18	B	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	5.7		1.0	0.50	mg/L	100		7196A	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 480-179177-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.17	J	1.0	0.16	ug/L	1		8260C	Total/NA
Barium	1.3	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	103		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.69		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	36.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.050		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	127		1.0	0.32	mg/L	1		6010C	Total/NA

Client Sample ID: TW-5A — Lab Sample ID: 480-179177-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.18	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.23	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	53.0		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0066		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0031	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	15.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.8		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0043	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	1.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	319		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.016	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-179177-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-08A
Lab Sample ID: 480-179177-1
Date Collected: 12/09/20 09:10
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 14:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 14:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 14:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 14:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 14:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 14:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 14:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 14:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 14:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 14:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 14:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 14:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 14:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 14:06	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 14:06	1
Acetone	ND		10	3.0	ug/L			12/10/20 14:06	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 14:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 14:06	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 14:06	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 14:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 14:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 14:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 14:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 14:06	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 14:06	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 14:06	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 14:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 14:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 14:06	1
Cyclohexane	**0.42**	**J**	1.0	0.18	ug/L			12/10/20 14:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 14:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 14:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 14:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 14:06	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 14:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 14:06	1
Methylcyclohexane	**0.66**	**J**	1.0	0.16	ug/L			12/10/20 14:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 14:06	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 14:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 14:06	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 14:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 14:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 14:06	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 14:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 14:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 14:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 14:06	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-08A
Date Collected: 12/09/20 09:10
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/10/20 14:06	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 14:06	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 14:06	1
Dibromofluoromethane (Surr)	102		75 - 123		12/10/20 14:06	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.19**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/17/20 23:47	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/17/20 23:47	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/17/20 23:47	1
Barium	**1.5**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/17/20 23:47	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/17/20 23:47	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/17/20 23:47	1
Calcium	**130**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:47	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/17/20 23:47	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/17/20 23:47	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/17/20 23:47	1
Iron	**1.4**		0.050	0.019	mg/L		12/14/20 10:39	12/17/20 23:47	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/17/20 23:47	1
Magnesium	**34.6**		0.20	0.043	mg/L		12/14/20 10:39	12/17/20 23:47	1
Manganese	**0.16**		0.0030	0.00040	mg/L		12/14/20 10:39	12/17/20 23:47	1
Nickel	**0.0016**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/17/20 23:47	1
Potassium	**6.6**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:47	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/17/20 23:47	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/17/20 23:47	1
Sodium	**138**		1.0	0.32	mg/L		12/14/20 10:39	12/17/20 23:47	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/17/20 23:47	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/17/20 23:47	1
Zinc	**0.018**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/17/20 23:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.0084**	**J**	0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-6
Lab Sample ID: 480-179177-2
Date Collected: 12/09/20 09:15
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 14:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 14:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 14:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 14:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 14:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 14:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 14:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 14:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 14:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 14:30	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 14:30	1
Acetone	ND		10	3.0	ug/L			12/10/20 14:30	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 14:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 14:30	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 14:30	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 14:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 14:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 14:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 14:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 14:30	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 14:30	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 14:30	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 14:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 14:30	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 14:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 14:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 14:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 14:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 14:30	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 14:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 14:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 14:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 14:30	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 14:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 14:30	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 14:30	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 14:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 14:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 14:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 14:30	1

Client Sample ID: TW-6
Lab Sample ID: 480-179177-2

Date Collected: 12/09/20 09:15
Matrix: Water
Date Received: 12/09/20 15:30

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		12/10/20 14:30	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/10/20 14:30	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/10/20 14:30	1
Dibromofluoromethane (Surr)	102		75 - 123		12/10/20 14:30	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**1.8**		0.20	0.060	mg/L		12/14/20 10:39	12/17/20 23:51	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/17/20 23:51	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/17/20 23:51	1
Barium	**0.14**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/17/20 23:51	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/17/20 23:51	1
Cadmium	**0.0072**		0.0020	0.00050	mg/L		12/14/20 10:39	12/17/20 23:51	1
Calcium	**186**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:51	1
Chromium	**0.015**		0.0040	0.0010	mg/L		12/14/20 10:39	12/17/20 23:51	1
Cobalt	**0.0011**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/17/20 23:51	1
Copper	**0.0064**	**J**	0.010	0.0016	mg/L		12/14/20 10:39	12/17/20 23:51	1
Iron	**2.3**		0.050	0.019	mg/L		12/14/20 10:39	12/17/20 23:51	1
Lead	**0.033**		0.010	0.0030	mg/L		12/14/20 10:39	12/17/20 23:51	1
Magnesium	**45.1**		0.20	0.043	mg/L		12/14/20 10:39	12/17/20 23:51	1
Manganese	**0.083**		0.0030	0.00040	mg/L		12/14/20 10:39	12/17/20 23:51	1
Nickel	**0.0095**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/17/20 23:51	1
Potassium	**13.3**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:51	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/17/20 23:51	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/17/20 23:51	1
Sodium	**590**		1.0	0.32	mg/L		12/14/20 10:39	12/17/20 23:51	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/17/20 23:51	1
Vanadium	**0.0034**	**J**	0.0050	0.0015	mg/L		12/14/20 10:39	12/17/20 23:51	1
Zinc	**0.048**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/17/20 23:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-7
Lab Sample ID: 480-179177-3
Date Collected: 12/09/20 10:00
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 14:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 14:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 14:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 14:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 14:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 14:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 14:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 14:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 14:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 14:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 14:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 14:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 14:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 14:53	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 14:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 14:53	1
Acetone	ND		10	3.0	ug/L			12/10/20 14:53	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 14:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 14:53	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 14:53	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 14:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 14:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 14:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 14:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 14:53	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 14:53	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 14:53	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 14:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 14:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 14:53	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 14:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 14:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 14:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 14:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 14:53	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 14:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 14:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 14:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 14:53	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 14:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 14:53	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 14:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 14:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 14:53	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 14:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 14:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 14:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 14:53	1

Client Sample ID: TW-7

Date Collected: 12/09/20 10:00
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-3

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		12/10/20 14:53	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/10/20 14:53	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 14:53	1
Dibromofluoromethane (Surr)	103		75 - 123		12/10/20 14:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.087**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/17/20 23:55	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/17/20 23:55	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/17/20 23:55	1
Barium	**0.10**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/17/20 23:55	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/17/20 23:55	1
Cadmium	**0.00064**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/17/20 23:55	1
Calcium	**383**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:55	1
Chromium	**3.6**		0.0040	0.0010	mg/L		12/14/20 10:39	12/17/20 23:55	1
Cobalt	**0.0029**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/17/20 23:55	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/17/20 23:55	1
Iron	**0.098**		0.050	0.019	mg/L		12/14/20 10:39	12/17/20 23:55	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/17/20 23:55	1
Magnesium	**139**		0.20	0.043	mg/L		12/14/20 10:39	12/17/20 23:55	1
Manganese	**0.13**		0.0030	0.00040	mg/L		12/14/20 10:39	12/17/20 23:55	1
Nickel	**0.0072**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/17/20 23:55	1
Potassium	**10.4**		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:55	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/17/20 23:55	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/17/20 23:55	1
Sodium	**1240**		5.0	1.6	mg/L		12/14/20 10:39	12/18/20 14:20	5
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/17/20 23:55	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/17/20 23:55	1
Zinc	**0.0028**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/17/20 23:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**6.1**		1.0	0.50	mg/L			12/09/20 19:00	100

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: DUP-120920
Lab Sample ID: 480-179177-4
Date Collected: 12/09/20 00:00
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 15:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 15:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 15:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 15:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 15:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 15:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 15:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 15:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 15:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 15:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 15:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 15:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 15:16	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 15:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 15:16	1
Acetone	ND		10	3.0	ug/L			12/10/20 15:16	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 15:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 15:16	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 15:16	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 15:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 15:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 15:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 15:16	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 15:16	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 15:16	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 15:16	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 15:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 15:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 15:16	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 15:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 15:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 15:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 15:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 15:16	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 15:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 15:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 15:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 15:16	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 15:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 15:16	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 15:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 15:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 15:16	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 15:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 15:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 15:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 15:16	1

Client Sample ID: DUP-120920
Lab Sample ID: 480-179177-4

Date Collected: 12/09/20 00:00
Matrix: Water

Date Received: 12/09/20 15:30

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/10/20 15:16	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/10/20 15:16	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/10/20 15:16	1
Dibromofluoromethane (Surr)	104		75 - 123		12/10/20 15:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.16**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:14	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:14	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:14	1
Barium	**0.094**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:14	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:14	1
Cadmium	**0.00076**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:14	1
Calcium	**384**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:14	1
Chromium	**3.6**		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:14	1
Cobalt	**0.0028**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:14	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:14	1
Iron	**0.15**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:14	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:14	1
Magnesium	**137**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:14	1
Manganese	**0.12**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:14	1
Nickel	**0.0078**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:14	1
Potassium	**10.1**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:14	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:14	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:14	1
Sodium	**1240**		5.0	1.6	mg/L		12/14/20 10:39	12/18/20 14:39	5
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:14	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:14	1
Zinc	**0.0018**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**6.0**		1.0	0.50	mg/L			12/09/20 19:00	100

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-8
Lab Sample ID: 480-179177-5
Date Collected: 12/09/20 10:10
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 15:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 15:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 15:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 15:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 15:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 15:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 15:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 15:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 15:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 15:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 15:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 15:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 15:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 15:39	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 15:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 15:39	1
Acetone	ND		10	3.0	ug/L			12/10/20 15:39	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 15:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 15:39	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 15:39	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 15:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 15:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 15:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 15:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 15:39	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 15:39	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 15:39	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 15:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 15:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 15:39	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 15:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 15:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 15:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 15:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 15:39	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 15:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 15:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 15:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 15:39	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 15:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 15:39	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 15:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 15:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 15:39	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 15:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 15:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 15:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 15:39	1

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: TW-8

Date Collected: 12/09/20 10:10
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-5

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		12/10/20 15:39	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/10/20 15:39	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 15:39	1
Dibromofluoromethane (Surr)	104		75 - 123		12/10/20 15:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.45**		0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:18	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:18	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:18	1
Barium	**0.079**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:18	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:18	1
Cadmium	**0.031**		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:18	1
Calcium	**104**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:18	1
Chromium	**0.0039**	**J**	0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:18	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:18	1
Copper	**0.0092**	**J**	0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:18	1
Iron	**0.63**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:18	1
Lead	**0.0078**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:18	1
Magnesium	**31.9**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:18	1
Manganese	**0.058**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:18	1
Nickel	**0.013**		0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:18	1
Potassium	**7.9**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:18	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:18	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:18	1
Sodium	**181**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:18	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:18	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:18	1
Zinc	**0.047**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.063**		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-9
Lab Sample ID: 480-179177-6
Date Collected: 12/09/20 10:45
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 16:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 16:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 16:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 16:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 16:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 16:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 16:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 16:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 16:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 16:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 16:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 16:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 16:02	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 16:02	1
Acetone	ND		10	3.0	ug/L			12/10/20 16:02	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 16:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 16:02	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 16:02	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 16:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 16:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 16:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 16:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 16:02	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 16:02	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 16:02	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 16:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 16:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 16:02	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 16:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 16:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 16:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 16:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 16:02	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 16:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 16:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 16:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 16:02	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 16:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 16:02	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 16:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 16:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 16:02	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 16:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 16:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 16:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 16:02	1

Client Sample ID: TW-9

Date Collected: 12/09/20 10:45
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-6

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		12/10/20 16:02	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 16:02	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/10/20 16:02	1
Dibromofluoromethane (Surr)	101		75 - 123		12/10/20 16:02	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:32	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:32	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:32	1
Barium	**0.029**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:32	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:32	1
Cadmium	**0.00062**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:32	1
Calcium	**421**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:32	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:32	1
Cobalt	**0.0096**		0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:32	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:32	1
Iron	**5.0**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:32	1
Lead	**0.0030**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:32	1
Magnesium	**101**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:32	1
Manganese	**0.90**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:32	1
Nickel	**0.019**		0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:32	1
Potassium	**2.3**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:32	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:32	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:32	1
Sodium	**52.9**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:32	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:32	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:32	1
Zinc	ND		0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-12
Lab Sample ID: 480-179177-7
Date Collected: 12/09/20 11:15
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 16:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 16:25	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 16:25	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 16:25	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 16:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 16:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 16:25	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 16:25	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 16:25	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 16:25	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 16:25	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 16:25	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 16:25	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 16:25	1
Acetone	ND		10	3.0	ug/L			12/10/20 16:25	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 16:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 16:25	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 16:25	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 16:25	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 16:25	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 16:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 16:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 16:25	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 16:25	1
Chloroform	**0.52**	**J**	1.0	0.34	ug/L			12/10/20 16:25	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 16:25	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 16:25	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 16:25	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 16:25	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 16:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 16:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 16:25	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 16:25	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 16:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 16:25	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 16:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 16:25	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 16:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 16:25	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 16:25	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 16:25	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 16:25	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 16:25	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 16:25	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 16:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 16:25	1

Client Sample ID: TW-12

Date Collected: 12/09/20 11:15
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-7

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 16:25	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/10/20 16:25	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/10/20 16:25	1
Dibromofluoromethane (Surr)	102		75 - 123		12/10/20 16:25	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.16**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:36	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:36	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:36	1
Barium	**0.049**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:36	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:36	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:36	1
Calcium	**135**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:36	1
Chromium	**0.0012**	**J**	0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:36	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:36	1
Copper	**0.0036**	**J**	0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:36	1
Iron	**1.1**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:36	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:36	1
Magnesium	**35.5**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:36	1
Manganese	**0.020**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:36	1
Nickel	**0.0028**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:36	1
Potassium	**3.4**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:36	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:36	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:36	1
Sodium	**134**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:36	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:36	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:36	1
Zinc	**0.43**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-13
Lab Sample ID: 480-179177-8
Date Collected: 12/09/20 11:40
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 16:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 16:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 16:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 16:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 16:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 16:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 16:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 16:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 16:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 16:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 16:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 16:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 16:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 16:48	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 16:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 16:48	1
Acetone	ND		10	3.0	ug/L			12/10/20 16:48	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 16:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 16:48	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 16:48	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 16:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 16:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 16:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 16:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 16:48	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 16:48	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 16:48	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 16:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 16:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 16:48	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 16:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 16:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 16:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 16:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 16:48	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 16:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 16:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 16:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 16:48	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 16:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 16:48	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 16:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 16:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 16:48	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 16:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 16:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 16:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 16:48	1

Client Sample ID: TW-13

Date Collected: 12/09/20 11:40
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-8

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/10/20 16:48	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 16:48	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/10/20 16:48	1
Dibromofluoromethane (Surr)	103		75 - 123		12/10/20 16:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.093**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:40	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:40	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:40	1
Barium	**0.034**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:40	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:40	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:40	1
Calcium	**399**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:40	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:40	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:40	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:40	1
Iron	**0.67**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:40	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:40	1
Magnesium	**130**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:40	1
Manganese	**0.099**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:40	1
Nickel	**0.0030**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:40	1
Potassium	**7.8**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:40	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:40	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:40	1
Sodium	**349**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:40	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:40	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:40	1
Zinc	**0.015**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-14
Lab Sample ID: 480-179177-9
Date Collected: 12/09/20 12:00
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 17:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 17:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 17:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 17:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 17:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 17:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 17:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 17:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 17:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 17:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 17:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 17:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 17:12	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 17:12	1
Acetone	ND		10	3.0	ug/L			12/10/20 17:12	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 17:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 17:12	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 17:12	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 17:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 17:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 17:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 17:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 17:12	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 17:12	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 17:12	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 17:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 17:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 17:12	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 17:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 17:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 17:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 17:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 17:12	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 17:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 17:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 17:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 17:12	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 17:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 17:12	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 17:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 17:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 17:12	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 17:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 17:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 17:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 17:12	1

Client Sample ID: TW-14

Date Collected: 12/09/20 12:00
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-9

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 17:12	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/10/20 17:12	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 17:12	1
Dibromofluoromethane (Surr)	102		75 - 123		12/10/20 17:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:44	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:44	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:44	1
Barium	**0.48**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:44	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:44	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:44	1
Calcium	**190**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:44	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:44	1
Cobalt	**0.0011**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:44	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:44	1
Iron	**0.40**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:44	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:44	1
Magnesium	**50.1**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:44	1
Manganese	**0.27**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:44	1
Nickel	**0.0044**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:44	1
Potassium	**4.6**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:44	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:44	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:44	1
Sodium	**801**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:44	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:44	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:44	1
Zinc	**0.042**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-15
Lab Sample ID: 480-179177-10
Date Collected: 12/09/20 12:30
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 17:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 17:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 17:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 17:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 17:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 17:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 17:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 17:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 17:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 17:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 17:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 17:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 17:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 17:35	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 17:35	1
Acetone	ND		10	3.0	ug/L			12/10/20 17:35	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 17:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 17:35	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 17:35	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 17:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 17:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 17:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 17:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 17:35	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 17:35	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 17:35	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 17:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 17:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 17:35	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 17:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 17:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 17:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 17:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 17:35	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 17:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 17:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 17:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 17:35	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 17:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 17:35	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 17:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 17:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 17:35	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 17:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 17:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 17:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 17:35	1

Client Sample ID: TW-15
Date Collected: 12/09/20 12:30
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-10
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 17:35	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/10/20 17:35	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/10/20 17:35	1
Dibromofluoromethane (Surr)	104		75 - 123		12/10/20 17:35	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:48	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:48	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:48	1
Barium	**0.079**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:48	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:48	1
Cadmium	**0.0073**		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:48	1
Calcium	**372**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:48	1
Chromium	**3.4**		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:48	1
Cobalt	**0.00074**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:48	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:48	1
Iron	**0.11**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:48	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:48	1
Magnesium	**129**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:48	1
Manganese	**0.039**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:48	1
Nickel	**0.0076**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:48	1
Potassium	**9.1**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:48	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:48	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:48	1
Sodium	**1120**		5.0	1.6	mg/L		12/14/20 10:39	12/18/20 14:42	5
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:48	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:48	1
Zinc	**0.18**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**5.7**		1.0	0.50	mg/L			12/09/20 19:00	100

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-6
Lab Sample ID: 480-179177-11
Date Collected: 12/09/20 13:30
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 17:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 17:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 17:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 17:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 17:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 17:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 17:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 17:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 17:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 17:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 17:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 17:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 17:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 17:59	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 17:59	1
Acetone	ND		10	3.0	ug/L			12/10/20 17:59	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 17:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 17:59	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 17:59	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 17:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 17:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 17:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 17:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 17:59	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 17:59	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 17:59	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 17:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 17:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 17:59	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 17:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 17:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 17:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 17:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 17:59	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 17:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 17:59	1
Methylcyclohexane	**0.17**	**J**	1.0	0.16	ug/L			12/10/20 17:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 17:59	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 17:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 17:59	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 17:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 17:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 17:59	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 17:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 17:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 17:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 17:59	1

Client Sample ID: MW-6

Date Collected: 12/09/20 13:30
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-11

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 17:59	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 17:59	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/10/20 17:59	1
Dibromofluoromethane (Surr)	103		75 - 123		12/10/20 17:59	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:51	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:51	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:51	1
Barium	**1.3**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:51	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:51	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:51	1
Calcium	**103**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:51	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:51	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:51	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:51	1
Iron	**0.69**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:51	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:51	1
Magnesium	**36.2**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:51	1
Manganese	**0.050**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:51	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:51	1
Potassium	**4.5**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:51	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:51	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:51	1
Sodium	**127**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:51	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:51	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:51	1
Zinc	ND		0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-5A
Lab Sample ID: 480-179177-12
Date Collected: 12/09/20 14:15
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 18:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 18:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 18:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 18:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 18:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 18:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 18:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 18:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 18:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 18:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 18:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 18:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 18:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 18:22	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 18:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 18:22	1
Acetone	ND		10	3.0	ug/L			12/10/20 18:22	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 18:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 18:22	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 18:22	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 18:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 18:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 18:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 18:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 18:22	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 18:22	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 18:22	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 18:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 18:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 18:22	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 18:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 18:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 18:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 18:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 18:22	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 18:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 18:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 18:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 18:22	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 18:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 18:22	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 18:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 18:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 18:22	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 18:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 18:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 18:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 18:22	1

Client Sample ID: TW-5A

Date Collected: 12/09/20 14:15
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-12

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		12/10/20 18:22	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 18:22	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/10/20 18:22	1
Dibromofluoromethane (Surr)	104		75 - 123		12/10/20 18:22	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.18**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/18/20 00:55	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/18/20 00:55	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/18/20 00:55	1
Barium	**0.23**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/18/20 00:55	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/18/20 00:55	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/18/20 00:55	1
Calcium	**53.0**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:55	1
Chromium	**0.0066**		0.0040	0.0010	mg/L		12/14/20 10:39	12/18/20 00:55	1
Cobalt	**0.0031**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/18/20 00:55	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/18/20 00:55	1
Iron	**1.0**		0.050	0.019	mg/L		12/14/20 10:39	12/18/20 00:55	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/18/20 00:55	1
Magnesium	**15.5**		0.20	0.043	mg/L		12/14/20 10:39	12/18/20 00:55	1
Manganese	**1.8**		0.0030	0.00040	mg/L		12/14/20 10:39	12/18/20 00:55	1
Nickel	**0.0043**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/18/20 00:55	1
Potassium	**1.4**		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 00:55	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/18/20 00:55	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/18/20 00:55	1
Sodium	**319**		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 00:55	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/18/20 00:55	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/18/20 00:55	1
Zinc	**0.016**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/18/20 00:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-179177-13
Date Collected: 12/09/20 00:00
Matrix: Water
Date Received: 12/09/20 15:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 18:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 18:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 18:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 18:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 18:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 18:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 18:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 18:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 18:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 18:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 18:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 18:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 18:46	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 18:46	1
Acetone	ND		10	3.0	ug/L			12/10/20 18:46	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 18:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 18:46	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 18:46	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 18:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 18:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 18:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 18:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 18:46	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 18:46	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 18:46	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 18:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 18:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 18:46	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 18:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 18:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 18:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 18:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 18:46	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 18:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 18:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 18:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 18:46	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 18:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 18:46	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 18:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 18:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 18:46	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 18:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 18:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 18:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 18:46	1

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-179177-13
Date Collected: 12/09/20 00:00
Matrix: Water
Date Received: 12/09/20 15:30

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/10/20 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 18:46	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/10/20 18:46	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 18:46	1
Dibromofluoromethane (Surr)	103		75 - 123		12/10/20 18:46	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-179177-1	RFI-08A	100	101	102	102
480-179177-2	TW-6	103	100	101	102
480-179177-3	TW-7	102	103	102	103
480-179177-3MS	TW-7	101	104	104	104
480-179177-3MSD	TW-7	102	100	104	103
480-179177-4	DUP-120920	100	102	100	104
480-179177-5	TW-8	102	104	102	104
480-179177-6	TW-9	99	101	101	101
480-179177-7	TW-12	101	102	103	102
480-179177-8	TW-13	100	101	100	103
480-179177-9	TW-14	101	100	102	102
480-179177-10	TW-15	101	102	100	104
480-179177-11	MW-6	101	101	101	103
480-179177-12	TW-5A	102	101	103	104
480-179177-13	TRIP BLANK	101	102	102	103
LCS 480-562633/5	Lab Control Sample	102	99	103	102
MB 480-562633/7	Method Blank	101	101	102	102

Surrogate Legend

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

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

Lab Sample ID: MB 480-562633/7
Matrix: Water
Analysis Batch: 562633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/10/20 10:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/10/20 10:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/10/20 10:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/10/20 10:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/10/20 10:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/10/20 10:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/10/20 10:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/10/20 10:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/10/20 10:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/10/20 10:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/10/20 10:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/10/20 10:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/10/20 10:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/10/20 10:47	1
2-Hexanone	ND		5.0	1.2	ug/L			12/10/20 10:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/10/20 10:47	1
Acetone	ND		10	3.0	ug/L			12/10/20 10:47	1
Benzene	ND		1.0	0.41	ug/L			12/10/20 10:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/10/20 10:47	1
Bromoform	ND		1.0	0.26	ug/L			12/10/20 10:47	1
Bromomethane	ND		1.0	0.69	ug/L			12/10/20 10:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/10/20 10:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/10/20 10:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/10/20 10:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/10/20 10:47	1
Chloroethane	ND		1.0	0.32	ug/L			12/10/20 10:47	1
Chloroform	ND		1.0	0.34	ug/L			12/10/20 10:47	1
Chloromethane	ND		1.0	0.35	ug/L			12/10/20 10:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/10/20 10:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/10/20 10:47	1
Cyclohexane	ND		1.0	0.18	ug/L			12/10/20 10:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/10/20 10:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/10/20 10:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/10/20 10:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/10/20 10:47	1
Methyl acetate	ND		2.5	1.3	ug/L			12/10/20 10:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/10/20 10:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/10/20 10:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/10/20 10:47	1
Styrene	ND		1.0	0.73	ug/L			12/10/20 10:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/10/20 10:47	1
Toluene	ND		1.0	0.51	ug/L			12/10/20 10:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/10/20 10:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/10/20 10:47	1
Trichloroethene	ND		1.0	0.46	ug/L			12/10/20 10:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/10/20 10:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/10/20 10:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/10/20 10:47	1

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

Lab Sample ID: MB 480-562633/7
Matrix: Water
Analysis Batch: 562633

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,4-Dioxane	33.0	J	ug/L		6.01	123-91-1		12/10/20 10:47	1
Tentatively Identified Compound	None		ug/L					12/10/20 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120		12/10/20 10:47	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		12/10/20 10:47	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/10/20 10:47	1
Dibromofluoromethane (Surr)	102		75 - 123		12/10/20 10:47	1

Lab Sample ID: LCS 480-562633/5
Matrix: Water
Analysis Batch: 562633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.9		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	76 - 120
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	25.4		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	26.0		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.7		ug/L		103	56 - 134
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	24.8		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		101	80 - 120
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
2-Hexanone	125	130		ug/L		104	65 - 127
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		104	71 - 125
Acetone	125	124		ug/L		100	56 - 142
Benzene	25.0	25.1		ug/L		100	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	26.9		ug/L		108	61 - 132
Bromomethane	25.0	24.8		ug/L		99	55 - 144
Carbon disulfide	25.0	24.3		ug/L		97	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Chloroethane	25.0	22.7		ug/L		91	69 - 136
Chloroform	25.0	23.8		ug/L		95	73 - 127
Chloromethane	25.0	22.8		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	26.6		ug/L		106	59 - 135
Dichlorodifluoromethane	25.0	22.4		ug/L		90	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123

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

Lab Sample ID: LCS 480-562633/5
Matrix: Water
Analysis Batch: 562633

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	25.0	26.4		ug/L		105	77 - 120
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	50.0	48.5		ug/L		97	74 - 133
Methyl tert-butyl ether	25.0	25.5		ug/L		102	77 - 120
Methylcyclohexane	25.0	27.7		ug/L		111	68 - 134
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Styrene	25.0	25.9		ug/L		104	80 - 120
Tetrachloroethene	25.0	27.3		ug/L		109	74 - 122
Toluene	25.0	25.5		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	80 - 120
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	25.9		ug/L		103	62 - 150
Vinyl chloride	25.0	24.6		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 562633

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	27.7		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	26.4		ug/L		106	76 - 120
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.1		ug/L		97	61 - 148
1,1-Dichloroethane	ND		25.0	26.6		ug/L		107	77 - 120
1,1-Dichloroethene	ND		25.0	27.5		ug/L		110	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	26.3		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	27.2		ug/L		109	56 - 134
1,2-Dichlorobenzene	ND		25.0	25.6		ug/L		102	80 - 124
1,2-Dichloroethane	ND		25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	ND		25.0	25.6		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	78 - 124
2-Butanone (MEK)	ND		125	142		ug/L		114	57 - 140
2-Hexanone	ND		125	141		ug/L		113	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	140		ug/L		112	71 - 125
Acetone	ND		125	129		ug/L		104	56 - 142
Benzene	ND		25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	ND		25.0	26.5		ug/L		106	80 - 122
Bromoform	ND		25.0	26.8		ug/L		107	61 - 132
Bromomethane	ND		25.0	27.8		ug/L		111	55 - 144
Carbon disulfide	ND		25.0	25.1		ug/L		101	59 - 134

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

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 562633

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		25.0	28.1		ug/L		112	72 - 134
Chlorobenzene	ND		25.0	26.1		ug/L		105	80 - 120
Dibromochloromethane	ND		25.0	27.0		ug/L		108	75 - 125
Chloroethane	ND		25.0	25.8		ug/L		103	69 - 136
Chloroform	ND		25.0	25.0		ug/L		100	73 - 127
Chloromethane	ND		25.0	26.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.0		ug/L		100	74 - 124
Cyclohexane	ND		25.0	26.9		ug/L		108	59 - 135
Dichlorodifluoromethane	ND		25.0	22.9		ug/L		92	59 - 135
Ethylbenzene	ND		25.0	26.2		ug/L		105	77 - 123
1,2-Dibromoethane	ND		25.0	26.9		ug/L		108	77 - 120
Isopropylbenzene	ND		25.0	25.8		ug/L		103	77 - 122
Methyl acetate	ND		50.0	51.2		ug/L		102	74 - 133
Methyl tert-butyl ether	ND		25.0	27.1		ug/L		109	77 - 120
Methylcyclohexane	ND		25.0	27.0		ug/L		108	68 - 134
Methylene Chloride	ND		25.0	24.9		ug/L		100	75 - 124
Styrene	ND		25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	ND		25.0	27.9		ug/L		112	74 - 122
Toluene	ND		25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.2		ug/L		101	80 - 120
Trichloroethene	ND		25.0	26.9		ug/L		108	74 - 123
Trichlorofluoromethane	ND		25.0	29.2		ug/L		117	62 - 150
Vinyl chloride	ND		25.0	29.4		ug/L		118	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 562633

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.2		ug/L		113	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		25.0	26.8		ug/L		107	76 - 120	2	15
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	76 - 122	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.8		ug/L		99	61 - 148	3	20
1,1-Dichloroethane	ND		25.0	26.8		ug/L		107	77 - 120	1	20
1,1-Dichloroethene	ND		25.0	28.4		ug/L		113	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		25.0	26.8		ug/L		107	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.5		ug/L		110	56 - 134	1	15
1,2-Dichlorobenzene	ND		25.0	26.3		ug/L		105	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	26.3		ug/L		105	75 - 120	2	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	76 - 120	2	20

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

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 562633

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		106	77 - 120	5	20
1,4-Dichlorobenzene	ND		25.0	26.4		ug/L		105	78 - 124	4	20
2-Butanone (MEK)	ND		125	137		ug/L		110	57 - 140	4	20
2-Hexanone	ND		125	143		ug/L		115	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125	143		ug/L		114	71 - 125	2	35
Acetone	ND		125	120		ug/L		96	56 - 142	8	15
Benzene	ND		25.0	26.7		ug/L		107	71 - 124	2	13
Bromodichloromethane	ND		25.0	27.1		ug/L		109	80 - 122	2	15
Bromoform	ND		25.0	27.6		ug/L		110	61 - 132	3	15
Bromomethane	ND		25.0	27.7		ug/L		111	55 - 144	0	15
Carbon disulfide	ND		25.0	25.3		ug/L		101	59 - 134	1	15
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	72 - 134	3	15
Chlorobenzene	ND		25.0	27.0		ug/L		108	80 - 120	3	25
Dibromochloromethane	ND		25.0	28.1		ug/L		112	75 - 125	4	15
Chloroethane	ND		25.0	26.0		ug/L		104	69 - 136	1	15
Chloroform	ND		25.0	25.4		ug/L		102	73 - 127	2	20
Chloromethane	ND		25.0	26.0		ug/L		104	68 - 124	0	15
cis-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	74 - 124	3	15
cis-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	74 - 124	3	15
Cyclohexane	ND		25.0	28.0		ug/L		112	59 - 135	4	20
Dichlorodifluoromethane	ND		25.0	22.7		ug/L		91	59 - 135	1	20
Ethylbenzene	ND		25.0	27.5		ug/L		110	77 - 123	5	15
1,2-Dibromoethane	ND		25.0	28.1		ug/L		113	77 - 120	4	15
Isopropylbenzene	ND		25.0	26.6		ug/L		106	77 - 122	3	20
Methyl acetate	ND		50.0	51.8		ug/L		104	74 - 133	1	20
Methyl tert-butyl ether	ND		25.0	27.2		ug/L		109	77 - 120	0	37
Methylcyclohexane	ND		25.0	27.9		ug/L		111	68 - 134	3	20
Methylene Chloride	ND		25.0	25.3		ug/L		101	75 - 124	2	15
Styrene	ND		25.0	26.5		ug/L		106	80 - 120	5	20
Tetrachloroethene	ND		25.0	29.7		ug/L		119	74 - 122	6	20
Toluene	ND		25.0	27.0		ug/L		108	80 - 122	6	15
trans-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	73 - 127	3	20
trans-1,3-Dichloropropene	ND		25.0	26.6		ug/L		106	80 - 120	5	15
Trichloroethene	ND		25.0	27.7		ug/L		111	74 - 123	3	16
Trichlorofluoromethane	ND		25.0	29.7		ug/L		119	62 - 150	1	20
Vinyl chloride	ND		25.0	29.3		ug/L		117	65 - 133	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-562792/1-A
Matrix: Water
Analysis Batch: 563808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/17/20 23:29	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/17/20 23:29	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/17/20 23:29	1
Barium	ND	^6+	0.0020	0.00070	mg/L		12/14/20 10:39	12/17/20 23:29	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/17/20 23:29	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/17/20 23:29	1
Calcium	ND		0.50	0.10	mg/L		12/14/20 10:39	12/17/20 23:29	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/17/20 23:29	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/17/20 23:29	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/17/20 23:29	1
Iron	ND		0.050	0.019	mg/L		12/14/20 10:39	12/17/20 23:29	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/17/20 23:29	1
Magnesium	ND		0.20	0.043	mg/L		12/14/20 10:39	12/17/20 23:29	1
Manganese	ND		0.0030	0.00040	mg/L		12/14/20 10:39	12/17/20 23:29	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/17/20 23:29	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/17/20 23:29	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/17/20 23:29	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/17/20 23:29	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/17/20 23:29	1
Zinc	0.00227	J	0.010	0.0015	mg/L		12/14/20 10:39	12/17/20 23:29	1

Lab Sample ID: MB 480-562792/1-A
Matrix: Water
Analysis Batch: 564029

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		12/14/20 10:39	12/18/20 14:16	1
Sodium	ND		1.0	0.32	mg/L		12/14/20 10:39	12/18/20 14:16	1

Lab Sample ID: LCS 480-562792/2-A
Matrix: Water
Analysis Batch: 563808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.28		mg/L		103	80 - 120
Antimony	0.200	0.208		mg/L		104	80 - 120
Arsenic	0.200	0.206		mg/L		103	80 - 120
Barium	0.200	0.218	^6+	mg/L		109	80 - 120
Beryllium	0.200	0.203		mg/L		102	80 - 120
Cadmium	0.200	0.206		mg/L		103	80 - 120
Calcium	10.0	10.35		mg/L		103	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.200	0.197		mg/L		98	80 - 120
Copper	0.200	0.209		mg/L		104	80 - 120
Iron	10.0	9.68		mg/L		97	80 - 120
Lead	0.200	0.206		mg/L		103	80 - 120
Magnesium	10.0	10.12		mg/L		101	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120
Nickel	0.200	0.195		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-562792/2-A
Matrix: Water
Analysis Batch: 563808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.13		mg/L		101	80 - 120
Selenium	0.200	0.203		mg/L		102	80 - 120
Silver	0.0500	0.0517		mg/L		103	80 - 120
Sodium	10.0	10.31		mg/L		103	80 - 120
Thallium	0.200	0.200		mg/L		100	80 - 120
Vanadium	0.200	0.196		mg/L		98	80 - 120
Zinc	0.200	0.210		mg/L		105	80 - 120

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 563808

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.087	J	10.0	10.25		mg/L		102	75 - 125
Antimony	ND		0.200	0.219		mg/L		110	75 - 125
Arsenic	ND		0.200	0.218		mg/L		109	75 - 125
Barium	0.10	^6+	0.200	0.295	^6+	mg/L		97	75 - 125
Beryllium	ND		0.200	0.196		mg/L		98	75 - 125
Cadmium	0.00064	J	0.200	0.215		mg/L		107	75 - 125
Calcium	383		10.0	392.4	4	mg/L		99	75 - 125
Chromium	3.6		0.200	3.74	4	mg/L		88	75 - 125
Cobalt	0.0029	J	0.200	0.206		mg/L		101	75 - 125
Copper	ND		0.200	0.208		mg/L		104	75 - 125
Iron	0.098		10.0	9.25		mg/L		91	75 - 125
Lead	ND		0.200	0.207		mg/L		104	75 - 125
Magnesium	139		10.0	146.5	4	mg/L		80	75 - 125
Manganese	0.13		0.200	0.317		mg/L		96	75 - 125
Nickel	0.0072	J	0.200	0.206		mg/L		99	75 - 125
Potassium	10.4		10.0	22.06		mg/L		116	75 - 125
Selenium	ND		0.200	0.209		mg/L		105	75 - 125
Silver	ND		0.0500	0.0559		mg/L		112	75 - 125
Thallium	ND		0.200	0.188		mg/L		94	75 - 125
Vanadium	ND		0.200	0.193		mg/L		96	75 - 125
Zinc	0.0028	J B	0.200	0.207		mg/L		102	75 - 125

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 564029

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1240		10.0	1263	4	mg/L		179	75 - 125

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 563808

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.087	J	10.0	10.14		mg/L		100	75 - 125	1	20
Antimony	ND		0.200	0.220		mg/L		110	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 563808

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.218		mg/L		109	75 - 125	0	20
Barium	0.10	^6+	0.200	0.290	^6+	mg/L		94	75 - 125	2	20
Beryllium	ND		0.200	0.195		mg/L		98	75 - 125	1	20
Cadmium	0.00064	J	0.200	0.213		mg/L		106	75 - 125	1	20
Calcium	383		10.0	384.9	4	mg/L		24	75 - 125	2	20
Chromium	3.6		0.200	3.75	4	mg/L		93	75 - 125	0	20
Cobalt	0.0029	J	0.200	0.205		mg/L		101	75 - 125	0	20
Copper	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Iron	0.098		10.0	9.16		mg/L		91	75 - 125	1	20
Lead	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Magnesium	139		10.0	146.3	4	mg/L		77	75 - 125	0	20
Manganese	0.13		0.200	0.315		mg/L		95	75 - 125	0	20
Nickel	0.0072	J	0.200	0.206		mg/L		99	75 - 125	0	20
Potassium	10.4		10.0	21.78		mg/L		114	75 - 125	1	20
Selenium	ND		0.200	0.211		mg/L		106	75 - 125	1	20
Silver	ND		0.0500	0.0552		mg/L		110	75 - 125	1	20
Thallium	ND		0.200	0.188		mg/L		94	75 - 125	0	20
Vanadium	ND		0.200	0.193		mg/L		96	75 - 125	0	20
Zinc	0.0028	J B	0.200	0.205		mg/L		101	75 - 125	1	20

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 564029

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562792

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1240		10.0	1266	4	mg/L		216	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-562921/1-A
Matrix: Water
Analysis Batch: 562987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/11/20 13:18	12/11/20 18:16	1

Lab Sample ID: LCS 480-562921/2-A
Matrix: Water
Analysis Batch: 562987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562921

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00703		mg/L		105	80 - 120		

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 562987

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00645		mg/L		97	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 562987

Client Sample ID: TW-7
Prep Type: Total/NA
Prep Batch: 562921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00642		mg/L		96	80 - 120	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-562669/27
Matrix: Water
Analysis Batch: 562669

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Lab Sample ID: MB 480-562669/3
Matrix: Water
Analysis Batch: 562669

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			12/09/20 19:00	1

Lab Sample ID: LCS 480-562669/28
Matrix: Water
Analysis Batch: 562669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0508		mg/L		102	85 - 115

Lab Sample ID: LCS 480-562669/4
Matrix: Water
Analysis Batch: 562669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	0.0500	0.0520		mg/L		104	85 - 115

Lab Sample ID: 480-179177-3MS
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	6.1		5.00	11.31		mg/L		105	85 - 115

Lab Sample ID: 480-179177-3MSD
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	6.1		5.00	10.44		mg/L		87	85 - 115	8	20

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-179177-6 MS
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		0.0500	0.0533		mg/L		107	85 - 115

Lab Sample ID: 480-179177-10 MS
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	5.7		5.00	11.43		mg/L		115	85 - 115

Lab Sample ID: 480-179177-1 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: RFI-08A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	0.0084	J	0.00718	J	mg/L		16	20

Lab Sample ID: 480-179177-2 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		0.00593	J	mg/L		NC	20

Lab Sample ID: 480-179177-4 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: DUP-120920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	6.0		6.20		mg/L		4	20

Lab Sample ID: 480-179177-5 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	0.063		0.0645		mg/L		2	20

Lab Sample ID: 480-179177-7 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Lab Sample ID: 480-179177-8 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chromium, hexavalent	ND		ND		mg/L		NC	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: 480-179177-9 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Lab Sample ID: 480-179177-10 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	5.7			5.95		mg/L				4	20

Lab Sample ID: 480-179177-11 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

Lab Sample ID: 480-179177-12 DU
Matrix: Water
Analysis Batch: 562669

Client Sample ID: TW-5A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

QC Association Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

GC/MS VOA

Analysis Batch: 562633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	8260C	
480-179177-2	TW-6	Total/NA	Water	8260C	
480-179177-3	TW-7	Total/NA	Water	8260C	
480-179177-4	DUP-120920	Total/NA	Water	8260C	
480-179177-5	TW-8	Total/NA	Water	8260C	
480-179177-6	TW-9	Total/NA	Water	8260C	
480-179177-7	TW-12	Total/NA	Water	8260C	
480-179177-8	TW-13	Total/NA	Water	8260C	
480-179177-9	TW-14	Total/NA	Water	8260C	
480-179177-10	TW-15	Total/NA	Water	8260C	
480-179177-11	MW-6	Total/NA	Water	8260C	
480-179177-12	TW-5A	Total/NA	Water	8260C	
480-179177-13	TRIP BLANK	Total/NA	Water	8260C	
MB 480-562633/7	Method Blank	Total/NA	Water	8260C	
LCS 480-562633/5	Lab Control Sample	Total/NA	Water	8260C	
480-179177-3MS	TW-7	Total/NA	Water	8260C	
480-179177-3MSD	TW-7	Total/NA	Water	8260C	

Metals

Prep Batch: 562792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	3005A	
480-179177-2	TW-6	Total/NA	Water	3005A	
480-179177-3	TW-7	Total/NA	Water	3005A	
480-179177-4	DUP-120920	Total/NA	Water	3005A	
480-179177-5	TW-8	Total/NA	Water	3005A	
480-179177-6	TW-9	Total/NA	Water	3005A	
480-179177-7	TW-12	Total/NA	Water	3005A	
480-179177-8	TW-13	Total/NA	Water	3005A	
480-179177-9	TW-14	Total/NA	Water	3005A	
480-179177-10	TW-15	Total/NA	Water	3005A	
480-179177-11	MW-6	Total/NA	Water	3005A	
480-179177-12	TW-5A	Total/NA	Water	3005A	
MB 480-562792/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-562792/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-179177-3MS	TW-7	Total/NA	Water	3005A	
480-179177-3MSD	TW-7	Total/NA	Water	3005A	

Prep Batch: 562921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	7470A	
480-179177-2	TW-6	Total/NA	Water	7470A	
480-179177-3	TW-7	Total/NA	Water	7470A	
480-179177-4	DUP-120920	Total/NA	Water	7470A	
480-179177-5	TW-8	Total/NA	Water	7470A	
480-179177-6	TW-9	Total/NA	Water	7470A	
480-179177-7	TW-12	Total/NA	Water	7470A	
480-179177-8	TW-13	Total/NA	Water	7470A	
480-179177-9	TW-14	Total/NA	Water	7470A	
480-179177-10	TW-15	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 562921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-11	MW-6	Total/NA	Water	7470A	
480-179177-12	TW-5A	Total/NA	Water	7470A	
MB 480-562921/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-562921/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-179177-3MS	TW-7	Total/NA	Water	7470A	
480-179177-3MSD	TW-7	Total/NA	Water	7470A	

Analysis Batch: 562987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	7470A	562921
480-179177-2	TW-6	Total/NA	Water	7470A	562921
480-179177-3	TW-7	Total/NA	Water	7470A	562921
480-179177-4	DUP-120920	Total/NA	Water	7470A	562921
480-179177-5	TW-8	Total/NA	Water	7470A	562921
480-179177-6	TW-9	Total/NA	Water	7470A	562921
480-179177-7	TW-12	Total/NA	Water	7470A	562921
480-179177-8	TW-13	Total/NA	Water	7470A	562921
480-179177-9	TW-14	Total/NA	Water	7470A	562921
480-179177-10	TW-15	Total/NA	Water	7470A	562921
480-179177-11	MW-6	Total/NA	Water	7470A	562921
480-179177-12	TW-5A	Total/NA	Water	7470A	562921
MB 480-562921/1-A	Method Blank	Total/NA	Water	7470A	562921
LCS 480-562921/2-A	Lab Control Sample	Total/NA	Water	7470A	562921
480-179177-3MS	TW-7	Total/NA	Water	7470A	562921
480-179177-3MSD	TW-7	Total/NA	Water	7470A	562921

Analysis Batch: 563808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	6010C	562792
480-179177-2	TW-6	Total/NA	Water	6010C	562792
480-179177-3	TW-7	Total/NA	Water	6010C	562792
480-179177-4	DUP-120920	Total/NA	Water	6010C	562792
480-179177-5	TW-8	Total/NA	Water	6010C	562792
480-179177-6	TW-9	Total/NA	Water	6010C	562792
480-179177-7	TW-12	Total/NA	Water	6010C	562792
480-179177-8	TW-13	Total/NA	Water	6010C	562792
480-179177-9	TW-14	Total/NA	Water	6010C	562792
480-179177-10	TW-15	Total/NA	Water	6010C	562792
480-179177-11	MW-6	Total/NA	Water	6010C	562792
480-179177-12	TW-5A	Total/NA	Water	6010C	562792
MB 480-562792/1-A	Method Blank	Total/NA	Water	6010C	562792
LCS 480-562792/2-A	Lab Control Sample	Total/NA	Water	6010C	562792
480-179177-3MS	TW-7	Total/NA	Water	6010C	562792
480-179177-3MSD	TW-7	Total/NA	Water	6010C	562792

Analysis Batch: 564029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-3	TW-7	Total/NA	Water	6010C	562792
480-179177-4	DUP-120920	Total/NA	Water	6010C	562792
480-179177-10	TW-15	Total/NA	Water	6010C	562792
MB 480-562792/1-A	Method Blank	Total/NA	Water	6010C	562792

Metals (Continued)

Analysis Batch: 564029 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-3MS	TW-7	Total/NA	Water	6010C	562792
480-179177-3MSD	TW-7	Total/NA	Water	6010C	562792

General Chemistry

Analysis Batch: 562669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179177-1	RFI-08A	Total/NA	Water	7196A	
480-179177-2	TW-6	Total/NA	Water	7196A	
480-179177-3	TW-7	Total/NA	Water	7196A	
480-179177-4	DUP-120920	Total/NA	Water	7196A	
480-179177-5	TW-8	Total/NA	Water	7196A	
480-179177-6	TW-9	Total/NA	Water	7196A	
480-179177-7	TW-12	Total/NA	Water	7196A	
480-179177-8	TW-13	Total/NA	Water	7196A	
480-179177-9	TW-14	Total/NA	Water	7196A	
480-179177-10	TW-15	Total/NA	Water	7196A	
480-179177-11	MW-6	Total/NA	Water	7196A	
480-179177-12	TW-5A	Total/NA	Water	7196A	
MB 480-562669/27	Method Blank	Total/NA	Water	7196A	
MB 480-562669/3	Method Blank	Total/NA	Water	7196A	
LCS 480-562669/28	Lab Control Sample	Total/NA	Water	7196A	
LCS 480-562669/4	Lab Control Sample	Total/NA	Water	7196A	
480-179177-3MS	TW-7	Total/NA	Water	7196A	
480-179177-3MSD	TW-7	Total/NA	Water	7196A	
480-179177-6 MS	TW-9	Total/NA	Water	7196A	
480-179177-10 MS	TW-15	Total/NA	Water	7196A	
480-179177-1 DU	RFI-08A	Total/NA	Water	7196A	
480-179177-2 DU	TW-6	Total/NA	Water	7196A	
480-179177-4 DU	DUP-120920	Total/NA	Water	7196A	
480-179177-5 DU	TW-8	Total/NA	Water	7196A	
480-179177-7 DU	TW-12	Total/NA	Water	7196A	
480-179177-8 DU	TW-13	Total/NA	Water	7196A	
480-179177-9 DU	TW-14	Total/NA	Water	7196A	
480-179177-10 DU	TW-15	Total/NA	Water	7196A	
480-179177-11 DU	MW-6	Total/NA	Water	7196A	
480-179177-12 DU	TW-5A	Total/NA	Water	7196A	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-08A
Lab Sample ID: 480-179177-1
Date Collected: 12/09/20 09:10
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 14:06	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/17/20 23:47	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:21	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-6
Lab Sample ID: 480-179177-2
Date Collected: 12/09/20 09:15
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 14:30	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/17/20 23:51	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:22	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-7
Lab Sample ID: 480-179177-3
Date Collected: 12/09/20 10:00
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 14:53	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		5	564029	12/18/20 14:20	LMH	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/17/20 23:55	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:23	BMB	TAL BUF
Total/NA	Analysis	7196A		100	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: DUP-120920
Lab Sample ID: 480-179177-4
Date Collected: 12/09/20 00:00
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 15:16	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		5	564029	12/18/20 14:39	LMH	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:14	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:29	BMB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: DUP-120920
Date Collected: 12/09/20 00:00
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		100	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-8
Date Collected: 12/09/20 10:10
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 15:39	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:18	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:30	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-9
Date Collected: 12/09/20 10:45
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 16:02	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:32	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:31	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-12
Date Collected: 12/09/20 11:15
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 16:25	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:36	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:33	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-13
Date Collected: 12/09/20 11:40
Date Received: 12/09/20 15:30

Lab Sample ID: 480-179177-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 16:48	OMI	TAL BUF

Client Sample ID: TW-13
Lab Sample ID: 480-179177-8
Date Collected: 12/09/20 11:40
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:40	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:37	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-14
Lab Sample ID: 480-179177-9
Date Collected: 12/09/20 12:00
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 17:12	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:44	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:38	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TW-15
Lab Sample ID: 480-179177-10
Date Collected: 12/09/20 12:30
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 17:35	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		5	564029	12/18/20 14:42	LMH	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:48	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:39	BMB	TAL BUF
Total/NA	Analysis	7196A		100	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: MW-6
Lab Sample ID: 480-179177-11
Date Collected: 12/09/20 13:30
Matrix: Water
Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 17:59	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:51	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:40	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Client Sample ID: TW-5A

Lab Sample ID: 480-179177-12

Date Collected: 12/09/20 14:15

Matrix: Water

Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 18:22	OMI	TAL BUF
Total/NA	Prep	3005A			562792	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563808	12/18/20 00:55	LMH	TAL BUF
Total/NA	Prep	7470A			562921	12/11/20 13:18	BMB	TAL BUF
Total/NA	Analysis	7470A		1	562987	12/11/20 18:42	BMB	TAL BUF
Total/NA	Analysis	7196A		1	562669	12/09/20 19:00	CSS	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-179177-13

Date Collected: 12/09/20 00:00

Matrix: Water

Date Received: 12/09/20 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562633	12/10/20 18:46	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-179177-1
Project/Site: Al Tech Specialty Steel #907022

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179177-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-179177-1	RFI-08A	Water	12/09/20 09:10	12/09/20 15:30	
480-179177-2	TW-6	Water	12/09/20 09:15	12/09/20 15:30	
480-179177-3	TW-7	Water	12/09/20 10:00	12/09/20 15:30	
480-179177-4	DUP-120920	Water	12/09/20 00:00	12/09/20 15:30	
480-179177-5	TW-8	Water	12/09/20 10:10	12/09/20 15:30	
480-179177-6	TW-9	Water	12/09/20 10:45	12/09/20 15:30	
480-179177-7	TW-12	Water	12/09/20 11:15	12/09/20 15:30	
480-179177-8	TW-13	Water	12/09/20 11:40	12/09/20 15:30	
480-179177-9	TW-14	Water	12/09/20 12:00	12/09/20 15:30	
480-179177-10	TW-15	Water	12/09/20 12:30	12/09/20 15:30	
480-179177-11	MW-6	Water	12/09/20 13:30	12/09/20 15:30	
480-179177-12	TW-5A	Water	12/09/20 14:15	12/09/20 15:30	
480-179177-13	TRIP BLANK	Water	12/09/20 00:00	12/09/20 15:30	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record *SHORT HOLD TIME

Eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-154110-34187.4
Client Contact: ~~Jennifer Clay~~ Pat Colern	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 4 of 4
Company: Groundwater & Environmental Services Inc	PWSID:			Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days):			
State, Zip: NY, 14221	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID: 137005			
Email: jeclay@gesonline.com	WO #:			
Project Name: Altech Specialty Steel #907022	Project #: 48020089			
Site: GES Project # 0901688	SSOW#:			

Analysis Requested

480-179177 Chain of Custody

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Na2SO3
Na2S2O3
I2SO4
SP Dodecahydrate
cetone
ICAA
OH 4-5
ther (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Number of	Special Instructions/Note:
			Preservation Code:				A	D	N		
RFI-08A	12-9-20	0910	G	Water			X	X	X		
TW-6		0915		Water			X	X	X		
TW-7		1000		Water		X	X	X	X		
Dup-120920		—		Water			X	X	X		
TW-8		1010		Water			X	X	X		
TW-9		1045		Water			X	X	X		
TW-12		1115					X	X	X		
TW-13		1140					X	X	X		
TW-14		1200					X	X	X		
TW-15		1230					X	X	X		
MW-6		1330					X	X	X		

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: 1530

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Pat Colern	12-9-20 1530	GES	Wallace	12/9/20 1700	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 1.7

Ver: 11/01/2020

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

*SHORT HOLD TIME

eurofins Environment Testing America

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-154110-34187.1
Client Contact: ~~Jennifer Clay~~ Pat Colern	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: Groundwater & Environmental Services Inc	PWSID:			Job #:

Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:
City: Williamsville	TAT Requested (days):
State, Zip: NY, 14221	Compliance Project: Δ Yes Δ No
Phone:	PO #: CallOut ID: 137005
Email: jeclay@gesonline.com	WO #:
Project Name: Altech Specialty Steel #907022	Project #: 48020089
Site: GES Project # 0901688	SSOW#:

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
TW-5A	12-9-10	1415	G	Water			X	X	X		
Trip Blank				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by: Pat Colern	Date/Time: 12-9-20 1530	Company: GES	Received by: Orlette	Date/Time: 12/9/20 1530	Company: FAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-179177-1

Login Number: 179177 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-179239-1
Client Project/Site: Al Tech Specialty Steel #907022

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Damianos Skaros

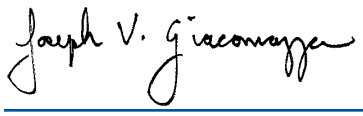
Joseph V. Giacomazza

Authorized for release by:
12/22/2020 1:17:15 PM
Joe Giacomazza, Project Manager I
joe.giacomazza@testamericainc.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Manager I
12/22/2020 1:17:15 PM

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
^6+	Interference Check Standard (ICSA and/or ICSAB) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-179239-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-179239-1

Comments
No additional comments.

Receipt
The samples were received on 12/10/2020 2:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

Receipt Exceptions
A Trip Blank samples was recorded on the COC however was not received.

GC/MS VOA
Method 8260C: Due to the high concentration of Trichloroethene, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-562933 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-7 (480-179239-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: RFI-26 (480-179239-5), RFI-31 (480-179239-9), LAE-4 (480-179239-11), (480-179239-B-11 MS) and (480-179239-B-11 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-562933 recovered above the upper control limit for Carbon disulfide, Cyclohexane, Styrene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Ethylbenzene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RFI-35 (480-179239-1), RFI-36 (480-179239-2), RFI-18 (480-179239-3), MW-7 (480-179239-4), RFI-26 (480-179239-5), RFI-27 (480-179239-7), RFI-05A (480-179239-8), RFI-31 (480-179239-9), MW-8 (480-179239-10) and LAE-4 (480-179239-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-563006 recovered above the upper control limit for Styrene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: RFI-34 (480-179239-6).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-563006 recovered outside acceptance criteria, low biased, for Vinyl chloride and Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

Metals
Method 6010C: The interference check standard solution (ICSA) associated with the following samples showed results for Barium at a level greater than 2 times the limit of detection (LOD). It is believed that the solution contains trace impurities of this element / these elements and the results are not due to matrix interference. These results are consistent with those found by the manufacturer of the ICSA solution. RFI-35 (480-179239-1), RFI-36 (480-179239-2), RFI-18 (480-179239-3), MW-7 (480-179239-4), RFI-26 (480-179239-5), RFI-34 (480-179239-6), RFI-27 (480-179239-7), RFI-05A (480-179239-8), RFI-31 (480-179239-9), MW-8 (480-179239-10), LAE-4 (480-179239-11), (LCS 480-563075/2-A), (LCSD 480-563075/3-A) and (MB 480-563075/1-A)

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

Detection Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-35 — Lab Sample ID: 480-179239-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.11	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.26	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	150		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.00068	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0030	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	21.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	15.8		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0094	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-36 — Lab Sample ID: 480-179239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	53.0		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.076		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	17.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.034		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	326		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0053	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-18 — Lab Sample ID: 480-179239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00067	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	188		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.42		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0037	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	76.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.20		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	6.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	266		1.0	0.32	mg/L	1		6010C	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 480-179239-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.6	J	4.0	1.8	ug/L	4		8260C	Total/NA
Barium	0.058	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	172		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0033	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.011		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.087		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0069	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	25.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.040		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0063	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	25.9		1.0	0.32	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7 (Continued) — Lab Sample ID: 480-179239-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.012	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-26 — Lab Sample ID: 480-179239-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2800		40	32	ug/L	40		8260C	Total/NA
Trichloroethene	1900		40	18	ug/L	40		8260C	Total/NA
Barium	0.025	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00073	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	163		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	85.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.11		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	48.5		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0015	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-34 — Lab Sample ID: 480-179239-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	3.5		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.90	J	1.0	0.16	ug/L	1		8260C	Total/NA
Aluminum	2.0		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.32	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00053	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	73.9		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.020		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0016	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0055	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	3.4		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.016		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	29.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.077		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.015		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	4.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	110		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.0071		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.035	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-27 — Lab Sample ID: 480-179239-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.50		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.091	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00089	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	147		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0010	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.039		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0043	J	0.010	0.0030	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RFI-27 (Continued) — Lab Sample ID: 480-179239-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	37.0		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	10.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.042		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	35.6		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.010	B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-05A — Lab Sample ID: 480-179239-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.091	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	161		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.037	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	36.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.038		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	16.4		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0018	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-31 — Lab Sample ID: 480-179239-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	580		40	32	ug/L	40		8260C	Total/NA
trans-1,2-Dichloroethene	110		40	36	ug/L	40		8260C	Total/NA
Trichloroethene	1600		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	37	J	40	36	ug/L	40		8260C	Total/NA
Aluminum	0.15	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.052	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	195		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0013	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	3.3		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0031	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	55.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.16		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0041	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	426		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0029	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 480-179239-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	46.7		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.066		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	7.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.048		0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	188		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0025	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: LAE-4
Lab Sample ID: 480-179239-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200	F1	100	81	ug/L	100		8260C	Total/NA
Trichloroethene	7200	F1	100	46	ug/L	100		8260C	Total/NA
Aluminum	0.79		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.083	^6+	0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	119		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0014	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0044		0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.64		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0035	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	26.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.2		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0052	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	1.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	17.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0033	J B	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-35
Lab Sample ID: 480-179239-1
Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/11/20 23:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/11/20 23:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/11/20 23:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/11/20 23:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/11/20 23:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/11/20 23:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/11/20 23:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/11/20 23:57	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/11/20 23:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/11/20 23:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/11/20 23:57	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/11/20 23:57	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/11/20 23:57	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/11/20 23:57	1
2-Hexanone	ND		5.0	1.2	ug/L			12/11/20 23:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/11/20 23:57	1
Acetone	ND		10	3.0	ug/L			12/11/20 23:57	1
Benzene	ND		1.0	0.41	ug/L			12/11/20 23:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/11/20 23:57	1
Bromoform	ND		1.0	0.26	ug/L			12/11/20 23:57	1
Bromomethane	ND		1.0	0.69	ug/L			12/11/20 23:57	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/11/20 23:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/11/20 23:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/11/20 23:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/11/20 23:57	1
Chloroethane	ND		1.0	0.32	ug/L			12/11/20 23:57	1
Chloroform	ND		1.0	0.34	ug/L			12/11/20 23:57	1
Chloromethane	ND		1.0	0.35	ug/L			12/11/20 23:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/11/20 23:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/11/20 23:57	1
Cyclohexane	ND		1.0	0.18	ug/L			12/11/20 23:57	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/11/20 23:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/11/20 23:57	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/11/20 23:57	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/11/20 23:57	1
Methyl acetate	ND		2.5	1.3	ug/L			12/11/20 23:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/11/20 23:57	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/11/20 23:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/11/20 23:57	1
Styrene	ND		1.0	0.73	ug/L			12/11/20 23:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/11/20 23:57	1
Toluene	ND		1.0	0.51	ug/L			12/11/20 23:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/11/20 23:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/11/20 23:57	1
Trichloroethene	ND		1.0	0.46	ug/L			12/11/20 23:57	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/11/20 23:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/11/20 23:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/11/20 23:57	1

Client Sample ID: RFI-35
Lab Sample ID: 480-179239-1
Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/11/20 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/11/20 23:57	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/11/20 23:57	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/11/20 23:57	1
Dibromofluoromethane (Surr)	103		75 - 123		12/11/20 23:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.11**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/14/20 20:43	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 20:43	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 20:43	1
Barium	**0.26**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 20:43	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:00	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 20:43	1
Calcium	**150**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:43	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 20:43	1
Cobalt	**0.00068**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 20:43	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:00	1
Iron	**1.2**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 20:43	1
Lead	**0.0030**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 20:43	1
Magnesium	**21.6**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 20:43	1
Manganese	**1.1**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 20:43	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 20:43	1
Potassium	**5.2**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:43	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 20:43	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 20:43	1
Sodium	**15.8**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 20:43	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 20:43	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 20:43	1
Zinc	**0.0094**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 20:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 18:47	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-36
Lab Sample ID: 480-179239-2
Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 00:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 00:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 00:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 00:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 00:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 00:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 00:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 00:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 00:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 00:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 00:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 00:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 00:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 00:23	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 00:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 00:23	1
Acetone	ND		10	3.0	ug/L			12/12/20 00:23	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 00:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 00:23	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 00:23	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 00:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 00:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 00:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 00:23	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 00:23	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 00:23	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 00:23	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 00:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 00:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 00:23	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 00:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 00:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 00:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 00:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 00:23	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 00:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 00:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 00:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 00:23	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 00:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 00:23	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 00:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 00:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 00:23	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 00:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 00:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 00:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 00:23	1

Client Sample ID: RFI-36
Lab Sample ID: 480-179239-2
Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		12/12/20 00:23	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/12/20 00:23	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/12/20 00:23	1
Dibromofluoromethane (Surr)	103		75 - 123		12/12/20 00:23	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 20:46	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 20:46	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 20:46	1
Barium	**0.094**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 20:46	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:04	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 20:46	1
Calcium	**53.0**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:46	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 20:46	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 20:46	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:04	1
Iron	**0.076**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 20:46	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 20:46	1
Magnesium	**17.2**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 20:46	1
Manganese	**0.034**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 20:46	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 20:46	1
Potassium	**5.5**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:46	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 20:46	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 20:46	1
Sodium	**326**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 20:46	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 20:46	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 20:46	1
Zinc	**0.0053**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 20:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 18:55	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-18
Lab Sample ID: 480-179239-3
Date Collected: 12/10/20 09:45
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 00:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 00:48	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 00:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 00:48	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 00:48	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 00:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 00:48	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 00:48	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 00:48	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 00:48	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 00:48	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 00:48	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 00:48	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 00:48	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 00:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 00:48	1
Acetone	ND		10	3.0	ug/L			12/12/20 00:48	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 00:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 00:48	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 00:48	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 00:48	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 00:48	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 00:48	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 00:48	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 00:48	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 00:48	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 00:48	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 00:48	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 00:48	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 00:48	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 00:48	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 00:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 00:48	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 00:48	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 00:48	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 00:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 00:48	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 00:48	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 00:48	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 00:48	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 00:48	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 00:48	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 00:48	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 00:48	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 00:48	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 00:48	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 00:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 00:48	1

Client Sample ID: RFI-18
Date Collected: 12/10/20 09:45
Date Received: 12/10/20 14:00

Lab Sample ID: 480-179239-3
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		12/12/20 00:48	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/12/20 00:48	1
4-Bromofluorobenzene (Surr)	91		73 - 120		12/12/20 00:48	1
Dibromofluoromethane (Surr)	102		75 - 123		12/12/20 00:48	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 20:50	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 20:50	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 20:50	1
Barium	**0.11**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 20:50	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:07	1
Cadmium	**0.00067**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 20:50	1
Calcium	**188**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:50	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 20:50	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 20:50	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:07	1
Iron	**0.42**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 20:50	1
Lead	**0.0037**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 20:50	1
Magnesium	**76.0**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 20:50	1
Manganese	**0.20**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 20:50	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 20:50	1
Potassium	**6.4**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:50	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 20:50	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 20:50	1
Sodium	**266**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 20:50	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 20:50	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 20:50	1
Zinc	ND		0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 20:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:01	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-7
Lab Sample ID: 480-179239-4
Date Collected: 12/10/20 09:35
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			12/12/20 01:13	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			12/12/20 01:13	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			12/12/20 01:13	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			12/12/20 01:13	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			12/12/20 01:13	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			12/12/20 01:13	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			12/12/20 01:13	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			12/12/20 01:13	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			12/12/20 01:13	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			12/12/20 01:13	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			12/12/20 01:13	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			12/12/20 01:13	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			12/12/20 01:13	4
2-Butanone (MEK)	ND		40	5.3	ug/L			12/12/20 01:13	4
2-Hexanone	ND		20	5.0	ug/L			12/12/20 01:13	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			12/12/20 01:13	4
Acetone	ND		40	12	ug/L			12/12/20 01:13	4
Benzene	ND		4.0	1.6	ug/L			12/12/20 01:13	4
Bromodichloromethane	ND		4.0	1.6	ug/L			12/12/20 01:13	4
Bromoform	ND		4.0	1.0	ug/L			12/12/20 01:13	4
Bromomethane	ND		4.0	2.8	ug/L			12/12/20 01:13	4
Carbon disulfide	ND		4.0	0.76	ug/L			12/12/20 01:13	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			12/12/20 01:13	4
Chlorobenzene	ND		4.0	3.0	ug/L			12/12/20 01:13	4
Dibromochloromethane	ND		4.0	1.3	ug/L			12/12/20 01:13	4
Chloroethane	ND		4.0	1.3	ug/L			12/12/20 01:13	4
Chloroform	ND		4.0	1.4	ug/L			12/12/20 01:13	4
Chloromethane	ND		4.0	1.4	ug/L			12/12/20 01:13	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			12/12/20 01:13	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			12/12/20 01:13	4
Cyclohexane	ND		4.0	0.72	ug/L			12/12/20 01:13	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			12/12/20 01:13	4
Ethylbenzene	ND		4.0	3.0	ug/L			12/12/20 01:13	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			12/12/20 01:13	4
Isopropylbenzene	ND		4.0	3.2	ug/L			12/12/20 01:13	4
Methyl acetate	ND		10	5.2	ug/L			12/12/20 01:13	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			12/12/20 01:13	4
Methylcyclohexane	ND		4.0	0.64	ug/L			12/12/20 01:13	4
Methylene Chloride	ND		4.0	1.8	ug/L			12/12/20 01:13	4
Styrene	ND		4.0	2.9	ug/L			12/12/20 01:13	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/12/20 01:13	4
Toluene	ND		4.0	2.0	ug/L			12/12/20 01:13	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/12/20 01:13	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			12/12/20 01:13	4
Trichloroethene	**2.6**	**J**	4.0	1.8	ug/L			12/12/20 01:13	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			12/12/20 01:13	4
Vinyl chloride	ND		4.0	3.6	ug/L			12/12/20 01:13	4
Xylenes, Total	ND		8.0	2.6	ug/L			12/12/20 01:13	4

Client Sample ID: MW-7

Date Collected: 12/10/20 09:35
Date Received: 12/10/20 14:00

Lab Sample ID: 480-179239-4

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 01:13	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		12/12/20 01:13	4
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/12/20 01:13	4
4-Bromofluorobenzene (Surr)	93		73 - 120		12/12/20 01:13	4
Dibromofluoromethane (Surr)	102		75 - 123		12/12/20 01:13	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 20:54	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 20:54	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 20:54	1
Barium	**0.058**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 20:54	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:11	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 20:54	1
Calcium	**172**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:54	1
Chromium	**0.0033**	**J**	0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 20:54	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 20:54	1
Copper	**0.011**		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:11	1
Iron	**0.087**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 20:54	1
Lead	**0.0069**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 20:54	1
Magnesium	**25.6**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 20:54	1
Manganese	**0.040**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 20:54	1
Nickel	**0.0063**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 20:54	1
Potassium	**7.3**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:54	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 20:54	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 20:54	1
Sodium	**25.9**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 20:54	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 20:54	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 20:54	1
Zinc	**0.012**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 20:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:03	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-26
Lab Sample ID: 480-179239-5
Date Collected: 12/10/20 10:35
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			12/12/20 01:38	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			12/12/20 01:38	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			12/12/20 01:38	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			12/12/20 01:38	40
1,1-Dichloroethane	ND		40	15	ug/L			12/12/20 01:38	40
1,1-Dichloroethene	ND		40	12	ug/L			12/12/20 01:38	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			12/12/20 01:38	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			12/12/20 01:38	40
1,2-Dichlorobenzene	ND		40	32	ug/L			12/12/20 01:38	40
1,2-Dichloroethane	ND		40	8.4	ug/L			12/12/20 01:38	40
1,2-Dichloropropane	ND		40	29	ug/L			12/12/20 01:38	40
1,3-Dichlorobenzene	ND		40	31	ug/L			12/12/20 01:38	40
1,4-Dichlorobenzene	ND		40	34	ug/L			12/12/20 01:38	40
2-Butanone (MEK)	ND		400	53	ug/L			12/12/20 01:38	40
2-Hexanone	ND		200	50	ug/L			12/12/20 01:38	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			12/12/20 01:38	40
Acetone	ND		400	120	ug/L			12/12/20 01:38	40
Benzene	ND		40	16	ug/L			12/12/20 01:38	40
Bromodichloromethane	ND		40	16	ug/L			12/12/20 01:38	40
Bromoform	ND		40	10	ug/L			12/12/20 01:38	40
Bromomethane	ND		40	28	ug/L			12/12/20 01:38	40
Carbon disulfide	ND		40	7.6	ug/L			12/12/20 01:38	40
Carbon tetrachloride	ND		40	11	ug/L			12/12/20 01:38	40
Chlorobenzene	ND		40	30	ug/L			12/12/20 01:38	40
Dibromochloromethane	ND		40	13	ug/L			12/12/20 01:38	40
Chloroethane	ND		40	13	ug/L			12/12/20 01:38	40
Chloroform	ND		40	14	ug/L			12/12/20 01:38	40
Chloromethane	ND		40	14	ug/L			12/12/20 01:38	40
cis-1,2-Dichloroethene	**2800**		40	32	ug/L			12/12/20 01:38	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			12/12/20 01:38	40
Cyclohexane	ND		40	7.2	ug/L			12/12/20 01:38	40
Dichlorodifluoromethane	ND		40	27	ug/L			12/12/20 01:38	40
Ethylbenzene	ND		40	30	ug/L			12/12/20 01:38	40
1,2-Dibromoethane	ND		40	29	ug/L			12/12/20 01:38	40
Isopropylbenzene	ND		40	32	ug/L			12/12/20 01:38	40
Methyl acetate	ND		100	52	ug/L			12/12/20 01:38	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			12/12/20 01:38	40
Methylcyclohexane	ND		40	6.4	ug/L			12/12/20 01:38	40
Methylene Chloride	ND		40	18	ug/L			12/12/20 01:38	40
Styrene	ND		40	29	ug/L			12/12/20 01:38	40
Tetrachloroethene	ND		40	14	ug/L			12/12/20 01:38	40
Toluene	ND		40	20	ug/L			12/12/20 01:38	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			12/12/20 01:38	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			12/12/20 01:38	40
Trichloroethene	**1900**		40	18	ug/L			12/12/20 01:38	40
Trichlorofluoromethane	ND		40	35	ug/L			12/12/20 01:38	40
Vinyl chloride	ND		40	36	ug/L			12/12/20 01:38	40
Xylenes, Total	ND		80	26	ug/L			12/12/20 01:38	40

Client Sample ID: RFI-26
Lab Sample ID: 480-179239-5
Date Collected: 12/10/20 10:35
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 01:38	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		12/12/20 01:38	40
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/12/20 01:38	40
4-Bromofluorobenzene (Surr)	96		73 - 120		12/12/20 01:38	40
Dibromofluoromethane (Surr)	103		75 - 123		12/12/20 01:38	40

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 20:58	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 20:58	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 20:58	1
Barium	**0.025**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 20:58	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:15	1
Cadmium	**0.00073**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 20:58	1
Calcium	**163**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:58	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 20:58	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 20:58	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:15	1
Iron	**1.2**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 20:58	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 20:58	1
Magnesium	**85.0**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 20:58	1
Manganese	**0.11**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 20:58	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 20:58	1
Potassium	**4.5**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 20:58	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 20:58	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 20:58	1
Sodium	**48.5**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 20:58	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 20:58	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 20:58	1
Zinc	**0.0015**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 20:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:04	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-34
Lab Sample ID: 480-179239-6
Date Collected: 12/10/20 10:50
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 11:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 11:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 11:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 11:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 11:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 11:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 11:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 11:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 11:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 11:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 11:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 11:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 11:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 11:55	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 11:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 11:55	1
Acetone	ND		10	3.0	ug/L			12/12/20 11:55	1
Benzene	**30**		1.0	0.41	ug/L			12/12/20 11:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 11:55	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 11:55	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 11:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 11:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 11:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 11:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 11:55	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 11:55	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 11:55	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 11:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 11:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 11:55	1
Cyclohexane	**3.5**		1.0	0.18	ug/L			12/12/20 11:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 11:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 11:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 11:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 11:55	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 11:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 11:55	1
Methylcyclohexane	**0.90**	**J**	1.0	0.16	ug/L			12/12/20 11:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 11:55	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 11:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 11:55	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 11:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 11:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 11:55	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 11:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 11:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 11:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 11:55	1

Client Sample ID: RFI-34
Date Collected: 12/10/20 10:50
Date Received: 12/10/20 14:00

Lab Sample ID: 480-179239-6
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Propane	160	T J N	ug/L		2.13	74-98-6		12/12/20 11:55	1
Unknown	32	T J	ug/L		2.35			12/12/20 11:55	1
Unknown	27	T J	ug/L		2.52			12/12/20 11:55	1
Butane, 2-methyl-	22	T J N	ug/L		3.09	78-78-4		12/12/20 11:55	1
Pentane	3.8	T J N	ug/L		3.35	109-66-0		12/12/20 11:55	1
1-Pentene	2.9	T J N	ug/L		4.34	109-67-1		12/12/20 11:55	1
Unknown	3.5	T J	ug/L		4.49			12/12/20 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/12/20 11:55	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/12/20 11:55	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/12/20 11:55	1
Dibromofluoromethane (Surr)	98		75 - 123		12/12/20 11:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2.0**		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:02	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:02	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:02	1
Barium	**0.32**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:02	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:19	1
Cadmium	**0.00053**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:02	1
Calcium	**73.9**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:02	1
Chromium	**0.020**		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:02	1
Cobalt	**0.0016**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:02	1
Copper	**0.0055**	**J**	0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:19	1
Iron	**3.4**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:02	1
Lead	**0.016**		0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:02	1
Magnesium	**29.8**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:02	1
Manganese	**0.077**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:02	1
Nickel	**0.015**		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:02	1
Potassium	**4.3**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:02	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:02	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:02	1
Sodium	**110**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:02	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:02	1
Vanadium	**0.0071**		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:02	1
Zinc	**0.035**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:06	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-27
Lab Sample ID: 480-179239-7
Date Collected: 12/10/20 10:35
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 02:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 02:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 02:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 02:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 02:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 02:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 02:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 02:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 02:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 02:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 02:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 02:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 02:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 02:27	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 02:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 02:27	1
Acetone	ND		10	3.0	ug/L			12/12/20 02:27	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 02:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 02:27	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 02:27	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 02:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 02:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 02:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 02:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 02:27	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 02:27	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 02:27	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 02:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 02:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 02:27	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 02:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 02:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 02:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 02:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 02:27	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 02:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 02:27	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 02:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 02:27	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 02:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 02:27	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 02:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 02:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 02:27	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 02:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 02:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 02:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 02:27	1

Client Sample ID: RFI-27

Date Collected: 12/10/20 10:35
Date Received: 12/10/20 14:00

Lab Sample ID: 480-179239-7

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		12/12/20 02:27	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/12/20 02:27	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/12/20 02:27	1
Dibromofluoromethane (Surr)	101		75 - 123		12/12/20 02:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.50**		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:05	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:05	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:05	1
Barium	**0.091**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:05	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:33	1
Cadmium	**0.00089**	**J**	0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:05	1
Calcium	**147**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:05	1
Chromium	**0.0010**	**J**	0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:05	1
Cobalt	**0.039**		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:05	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:33	1
Iron	**1.2**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:05	1
Lead	**0.0043**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:05	1
Magnesium	**37.0**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:05	1
Manganese	**10.1**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:05	1
Nickel	**0.042**		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:05	1
Potassium	**2.5**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:05	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:05	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:05	1
Sodium	**35.6**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:05	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:05	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:05	1
Zinc	**0.010**	**B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:11	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-05A
Lab Sample ID: 480-179239-8
Date Collected: 12/10/20 11:35
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 02:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 02:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 02:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 02:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 02:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 02:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 02:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 02:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 02:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 02:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 02:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 02:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 02:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 02:53	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 02:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 02:53	1
Acetone	ND		10	3.0	ug/L			12/12/20 02:53	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 02:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 02:53	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 02:53	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 02:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 02:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 02:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 02:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 02:53	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 02:53	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 02:53	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 02:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 02:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 02:53	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 02:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 02:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 02:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 02:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 02:53	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 02:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 02:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 02:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 02:53	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 02:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 02:53	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 02:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 02:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 02:53	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 02:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 02:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 02:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 02:53	1

Client Sample ID: RFI-05A

Date Collected: 12/10/20 11:35
Date Received: 12/10/20 14:00

Lab Sample ID: 480-179239-8

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/12/20 02:53	1
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		12/12/20 02:53	1
4-Bromofluorobenzene (Surr)	95		73 - 120		12/12/20 02:53	1
Dibromofluoromethane (Surr)	105		75 - 123		12/12/20 02:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:09	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:09	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:09	1
Barium	**0.091**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:09	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:37	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:09	1
Calcium	**161**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:09	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:09	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:09	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 17:37	1
Iron	**0.037**	**J**	0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:09	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:09	1
Magnesium	**36.5**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:09	1
Manganese	**0.038**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:09	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:09	1
Potassium	**1.1**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:09	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:09	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:09	1
Sodium	**16.4**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:09	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:09	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:09	1
Zinc	**0.0018**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:12	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-31
Lab Sample ID: 480-179239-9
Date Collected: 12/10/20 12:40
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			12/12/20 03:18	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			12/12/20 03:18	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			12/12/20 03:18	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			12/12/20 03:18	40
1,1-Dichloroethane	ND		40	15	ug/L			12/12/20 03:18	40
1,1-Dichloroethene	ND		40	12	ug/L			12/12/20 03:18	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			12/12/20 03:18	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			12/12/20 03:18	40
1,2-Dichlorobenzene	ND		40	32	ug/L			12/12/20 03:18	40
1,2-Dichloroethane	ND		40	8.4	ug/L			12/12/20 03:18	40
1,2-Dichloropropane	ND		40	29	ug/L			12/12/20 03:18	40
1,3-Dichlorobenzene	ND		40	31	ug/L			12/12/20 03:18	40
1,4-Dichlorobenzene	ND		40	34	ug/L			12/12/20 03:18	40
2-Butanone (MEK)	ND		400	53	ug/L			12/12/20 03:18	40
2-Hexanone	ND		200	50	ug/L			12/12/20 03:18	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			12/12/20 03:18	40
Acetone	ND		400	120	ug/L			12/12/20 03:18	40
Benzene	ND		40	16	ug/L			12/12/20 03:18	40
Bromodichloromethane	ND		40	16	ug/L			12/12/20 03:18	40
Bromoform	ND		40	10	ug/L			12/12/20 03:18	40
Bromomethane	ND		40	28	ug/L			12/12/20 03:18	40
Carbon disulfide	ND		40	7.6	ug/L			12/12/20 03:18	40
Carbon tetrachloride	ND		40	11	ug/L			12/12/20 03:18	40
Chlorobenzene	ND		40	30	ug/L			12/12/20 03:18	40
Dibromochloromethane	ND		40	13	ug/L			12/12/20 03:18	40
Chloroethane	ND		40	13	ug/L			12/12/20 03:18	40
Chloroform	ND		40	14	ug/L			12/12/20 03:18	40
Chloromethane	ND		40	14	ug/L			12/12/20 03:18	40
cis-1,2-Dichloroethene	**580**		40	32	ug/L			12/12/20 03:18	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			12/12/20 03:18	40
Cyclohexane	ND		40	7.2	ug/L			12/12/20 03:18	40
Dichlorodifluoromethane	ND		40	27	ug/L			12/12/20 03:18	40
Ethylbenzene	ND		40	30	ug/L			12/12/20 03:18	40
1,2-Dibromoethane	ND		40	29	ug/L			12/12/20 03:18	40
Isopropylbenzene	ND		40	32	ug/L			12/12/20 03:18	40
Methyl acetate	ND		100	52	ug/L			12/12/20 03:18	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			12/12/20 03:18	40
Methylcyclohexane	ND		40	6.4	ug/L			12/12/20 03:18	40
Methylene Chloride	ND		40	18	ug/L			12/12/20 03:18	40
Styrene	ND		40	29	ug/L			12/12/20 03:18	40
Tetrachloroethene	ND		40	14	ug/L			12/12/20 03:18	40
Toluene	ND		40	20	ug/L			12/12/20 03:18	40
trans-1,2-Dichloroethene	**110**		40	36	ug/L			12/12/20 03:18	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			12/12/20 03:18	40
Trichloroethene	**1600**		40	18	ug/L			12/12/20 03:18	40
Trichlorofluoromethane	ND		40	35	ug/L			12/12/20 03:18	40
Vinyl chloride	**37**	**J**	40	36	ug/L			12/12/20 03:18	40
Xylenes, Total	ND		80	26	ug/L			12/12/20 03:18	40

Client Sample ID: RFI-31
Lab Sample ID: 480-179239-9
Date Collected: 12/10/20 12:40
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 03:18	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		12/12/20 03:18	40
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		12/12/20 03:18	40
4-Bromofluorobenzene (Surr)	99		73 - 120		12/12/20 03:18	40
Dibromofluoromethane (Surr)	104		75 - 123		12/12/20 03:18	40

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.15**	**J**	0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:24	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:24	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:24	1
Barium	**0.052**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:24	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:41	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:24	1
Calcium	**195**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:24	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:24	1
Cobalt	**0.0013**	**J**	0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:24	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/14/20 21:24	1
Iron	**3.3**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:24	1
Lead	**0.0031**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:24	1
Magnesium	**55.8**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:24	1
Manganese	**0.16**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:24	1
Nickel	**0.0041**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:24	1
Potassium	**2.4**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:24	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:24	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:24	1
Sodium	**426**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:24	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:24	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:24	1
Zinc	**0.0029**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:14	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-8
Lab Sample ID: 480-179239-10
Date Collected: 12/10/20 12:30
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 03:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 03:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 03:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 03:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 03:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 03:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 03:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 03:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 03:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 03:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 03:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 03:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 03:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 03:42	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 03:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 03:42	1
Acetone	ND		10	3.0	ug/L			12/12/20 03:42	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 03:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 03:42	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 03:42	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 03:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 03:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 03:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 03:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 03:42	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 03:42	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 03:42	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 03:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 03:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 03:42	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 03:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 03:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 03:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 03:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 03:42	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 03:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 03:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 03:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 03:42	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 03:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 03:42	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 03:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 03:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 03:42	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 03:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 03:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 03:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 03:42	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-8
Lab Sample ID: 480-179239-10

Date Collected: 12/10/20 12:30
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		12/12/20 03:42	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		12/12/20 03:42	1
4-Bromofluorobenzene (Surr)	91		73 - 120		12/12/20 03:42	1
Dibromofluoromethane (Surr)	104		75 - 123		12/12/20 03:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:28	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:28	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:28	1
Barium	**0.055**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:28	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:45	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:28	1
Calcium	**46.7**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:28	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:28	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:28	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/14/20 21:28	1
Iron	**0.066**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:28	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:28	1
Magnesium	**7.3**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:28	1
Manganese	**0.048**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:28	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:28	1
Potassium	**1.3**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:28	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:28	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:28	1
Sodium	**188**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:28	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:28	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:28	1
Zinc	**0.0025**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:15	1

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: LAE-4
Lab Sample ID: 480-179239-11
Date Collected: 12/10/20 00:00
Matrix: Water
Date Received: 12/10/20 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			12/12/20 04:07	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			12/12/20 04:07	100
1,1,2-Trichloroethane	ND		100	23	ug/L			12/12/20 04:07	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			12/12/20 04:07	100
1,1-Dichloroethane	ND		100	38	ug/L			12/12/20 04:07	100
1,1-Dichloroethene	ND		100	29	ug/L			12/12/20 04:07	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			12/12/20 04:07	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			12/12/20 04:07	100
1,2-Dichlorobenzene	ND		100	79	ug/L			12/12/20 04:07	100
1,2-Dichloroethane	ND		100	21	ug/L			12/12/20 04:07	100
1,2-Dichloropropane	ND		100	72	ug/L			12/12/20 04:07	100
1,3-Dichlorobenzene	ND		100	78	ug/L			12/12/20 04:07	100
1,4-Dichlorobenzene	ND		100	84	ug/L			12/12/20 04:07	100
2-Butanone (MEK)	ND		1000	130	ug/L			12/12/20 04:07	100
2-Hexanone	ND		500	120	ug/L			12/12/20 04:07	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			12/12/20 04:07	100
Acetone	ND		1000	300	ug/L			12/12/20 04:07	100
Benzene	ND		100	41	ug/L			12/12/20 04:07	100
Bromodichloromethane	ND		100	39	ug/L			12/12/20 04:07	100
Bromoform	ND		100	26	ug/L			12/12/20 04:07	100
Bromomethane	ND	F2	100	69	ug/L			12/12/20 04:07	100
Carbon disulfide	ND		100	19	ug/L			12/12/20 04:07	100
Carbon tetrachloride	ND		100	27	ug/L			12/12/20 04:07	100
Chlorobenzene	ND		100	75	ug/L			12/12/20 04:07	100
Dibromochloromethane	ND		100	32	ug/L			12/12/20 04:07	100
Chloroethane	ND		100	32	ug/L			12/12/20 04:07	100
Chloroform	ND		100	34	ug/L			12/12/20 04:07	100
Chloromethane	ND		100	35	ug/L			12/12/20 04:07	100
cis-1,2-Dichloroethene	**1200**	**F1**	100	81	ug/L			12/12/20 04:07	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			12/12/20 04:07	100
Cyclohexane	ND		100	18	ug/L			12/12/20 04:07	100
Dichlorodifluoromethane	ND		100	68	ug/L			12/12/20 04:07	100
Ethylbenzene	ND		100	74	ug/L			12/12/20 04:07	100
1,2-Dibromoethane	ND		100	73	ug/L			12/12/20 04:07	100
Isopropylbenzene	ND		100	79	ug/L			12/12/20 04:07	100
Methyl acetate	ND		250	130	ug/L			12/12/20 04:07	100
Methyl tert-butyl ether	ND		100	16	ug/L			12/12/20 04:07	100
Methylcyclohexane	ND		100	16	ug/L			12/12/20 04:07	100
Methylene Chloride	ND		100	44	ug/L			12/12/20 04:07	100
Styrene	ND	F1	100	73	ug/L			12/12/20 04:07	100
Tetrachloroethene	ND		100	36	ug/L			12/12/20 04:07	100
Toluene	ND		100	51	ug/L			12/12/20 04:07	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			12/12/20 04:07	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			12/12/20 04:07	100
Trichloroethene	**7200**	**F1**	100	46	ug/L			12/12/20 04:07	100
Trichlorofluoromethane	ND		100	88	ug/L			12/12/20 04:07	100
Vinyl chloride	ND		100	90	ug/L			12/12/20 04:07	100
Xylenes, Total	ND		200	66	ug/L			12/12/20 04:07	100

Client Sample ID: LAE-4
Lab Sample ID: 480-179239-11
Date Collected: 12/10/20 00:00
Matrix: Water
Date Received: 12/10/20 14:00

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					12/12/20 04:07	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/12/20 04:07	100
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		12/12/20 04:07	100
4-Bromofluorobenzene (Surr)	91		73 - 120		12/12/20 04:07	100
Dibromofluoromethane (Surr)	104		75 - 123		12/12/20 04:07	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.79**		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 21:31	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 21:31	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 21:31	1
Barium	**0.083**	**^6+**	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 21:31	1
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 17:48	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 21:31	1
Calcium	**119**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:31	1
Chromium	**0.0014**	**J**	0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 21:31	1
Cobalt	**0.0044**		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 21:31	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/14/20 21:31	1
Iron	**0.64**		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 21:31	1
Lead	**0.0035**	**J**	0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 21:31	1
Magnesium	**26.1**		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 21:31	1
Manganese	**1.2**		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 21:31	1
Nickel	**0.0052**	**J**	0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 21:31	1
Potassium	**1.1**		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 21:31	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 21:31	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 21:31	1
Sodium	**17.2**		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 21:31	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 21:31	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 21:31	1
Zinc	**0.0033**	**J B**	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 21:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 19:17	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-179239-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-179239-1	RFI-35	100	107	100	103
480-179239-2	RFI-36	94	106	95	103
480-179239-3	RFI-18	94	106	91	102
480-179239-4	MW-7	94	107	93	102
480-179239-5	RFI-26	95	107	96	103
480-179239-6	RFI-34	93	103	92	98
480-179239-7	RFI-27	98	106	100	101
480-179239-8	RFI-05A	93	110	95	105
480-179239-9	RFI-31	97	109	99	104
480-179239-10	MW-8	94	109	91	104
480-179239-11	LAE-4	93	107	91	104
480-179239-11 MS	LAE-4	98	105	107	102
480-179239-11 MSD	LAE-4	98	98	99	97
LCS 480-562933/6	Lab Control Sample	99	96	103	98
LCS 480-563006/5	Lab Control Sample	96	98	100	97
MB 480-562933/8	Method Blank	94	105	92	100
MB 480-563006/7	Method Blank	98	106	101	100

Surrogate Legend

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

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

Lab Sample ID: MB 480-562933/8
Matrix: Water
Analysis Batch: 562933

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/11/20 23:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/11/20 23:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/11/20 23:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/11/20 23:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/11/20 23:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/11/20 23:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/11/20 23:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/11/20 23:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/11/20 23:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/11/20 23:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/11/20 23:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/11/20 23:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/11/20 23:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/11/20 23:33	1
2-Hexanone	ND		5.0	1.2	ug/L			12/11/20 23:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/11/20 23:33	1
Acetone	ND		10	3.0	ug/L			12/11/20 23:33	1
Benzene	ND		1.0	0.41	ug/L			12/11/20 23:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/11/20 23:33	1
Bromoform	ND		1.0	0.26	ug/L			12/11/20 23:33	1
Bromomethane	ND		1.0	0.69	ug/L			12/11/20 23:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/11/20 23:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/11/20 23:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/11/20 23:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/11/20 23:33	1
Chloroethane	ND		1.0	0.32	ug/L			12/11/20 23:33	1
Chloroform	ND		1.0	0.34	ug/L			12/11/20 23:33	1
Chloromethane	ND		1.0	0.35	ug/L			12/11/20 23:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/11/20 23:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/11/20 23:33	1
Cyclohexane	ND		1.0	0.18	ug/L			12/11/20 23:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/11/20 23:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/11/20 23:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/11/20 23:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/11/20 23:33	1
Methyl acetate	ND		2.5	1.3	ug/L			12/11/20 23:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/11/20 23:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/11/20 23:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/11/20 23:33	1
Styrene	ND		1.0	0.73	ug/L			12/11/20 23:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/11/20 23:33	1
Toluene	ND		1.0	0.51	ug/L			12/11/20 23:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/11/20 23:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/11/20 23:33	1
Trichloroethene	ND		1.0	0.46	ug/L			12/11/20 23:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/11/20 23:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/11/20 23:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/11/20 23:33	1

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

Lab Sample ID: MB 480-562933/8
Matrix: Water
Analysis Batch: 562933

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1,4-Dioxane	17.8	J	ug/L		7.17	123-91-1		12/11/20 23:33	1
Tentatively Identified Compound	None		ug/L					12/11/20 23:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		12/11/20 23:33	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/11/20 23:33	1
4-Bromofluorobenzene (Surr)	92		73 - 120		12/11/20 23:33	1
Dibromofluoromethane (Surr)	100		75 - 123		12/11/20 23:33	1

Lab Sample ID: LCS 480-562933/6
Matrix: Water
Analysis Batch: 562933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.6		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.8		ug/L		107	61 - 148
1,1-Dichloroethane	25.0	27.3		ug/L		109	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		84	56 - 134
1,2-Dichlorobenzene	25.0	27.3		ug/L		109	80 - 124
1,2-Dichloroethane	25.0	26.1		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	27.9		ug/L		112	76 - 120
1,3-Dichlorobenzene	25.0	26.9		ug/L		107	77 - 120
1,4-Dichlorobenzene	25.0	26.7		ug/L		107	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	116		ug/L		93	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	105		ug/L		84	56 - 142
Benzene	25.0	26.9		ug/L		108	71 - 124
Bromodichloromethane	25.0	28.0		ug/L		112	80 - 122
Bromoform	25.0	22.9		ug/L		92	61 - 132
Bromomethane	25.0	19.8		ug/L		79	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	26.5		ug/L		106	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Dibromochloromethane	25.0	27.0		ug/L		108	75 - 125
Chloroethane	25.0	19.9		ug/L		80	69 - 136
Chloroform	25.0	25.9		ug/L		103	73 - 127
Chloromethane	25.0	19.5		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	28.0		ug/L		112	74 - 124
cis-1,3-Dichloropropene	25.0	25.9		ug/L		104	74 - 124
Cyclohexane	25.0	28.8		ug/L		115	59 - 135
Dichlorodifluoromethane	25.0	21.5		ug/L		86	59 - 135
Ethylbenzene	25.0	27.6		ug/L		110	77 - 123

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

Lab Sample ID: LCS 480-562933/6
Matrix: Water
Analysis Batch: 562933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	25.0	25.3		ug/L		101	77 - 120
Isopropylbenzene	25.0	29.3		ug/L		117	77 - 122
Methyl acetate	50.0	39.8		ug/L		80	74 - 133
Methyl tert-butyl ether	25.0	25.4		ug/L		102	77 - 120
Methylcyclohexane	25.0	27.2		ug/L		109	68 - 134
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Styrene	25.0	29.4		ug/L		118	80 - 120
Tetrachloroethene	25.0	26.9		ug/L		108	74 - 122
Toluene	25.0	26.8		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	80 - 120
Trichloroethene	25.0	27.3		ug/L		109	74 - 123
Trichlorofluoromethane	25.0	26.2		ug/L		105	62 - 150
Vinyl chloride	25.0	21.2		ug/L		85	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Dibromofluoromethane (Surr)	*98*		*75 - 123*

Lab Sample ID: 480-179239-11 MS
Matrix: Water
Analysis Batch: 562933

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2500	3120		ug/L		125	73 - 126
1,1,2,2-Tetrachloroethane	ND		2500	2340		ug/L		94	76 - 120
1,1,2-Trichloroethane	ND		2500	2610		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	3140		ug/L		126	61 - 148
1,1-Dichloroethane	ND		2500	3010		ug/L		120	77 - 120
1,1-Dichloroethene	ND		2500	2950		ug/L		118	66 - 127
1,2,4-Trichlorobenzene	ND		2500	2530		ug/L		101	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	2040		ug/L		82	56 - 134
1,2-Dichlorobenzene	ND		2500	2710		ug/L		108	80 - 124
1,2-Dichloroethane	ND		2500	2890		ug/L		116	75 - 120
1,2-Dichloropropane	ND		2500	2890		ug/L		116	76 - 120
1,3-Dichlorobenzene	ND		2500	2670		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		2500	2630		ug/L		105	78 - 124
2-Butanone (MEK)	ND		12500	11300		ug/L		90	57 - 140
2-Hexanone	ND		12500	11800		ug/L		95	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		12500	12000		ug/L		96	71 - 125
Acetone	ND		12500	10600		ug/L		84	56 - 142
Benzene	ND		2500	2850		ug/L		114	71 - 124
Bromodichloromethane	ND		2500	3020		ug/L		121	80 - 122
Bromoform	ND		2500	2380		ug/L		95	61 - 132
Bromomethane	ND	F2	2500	2490		ug/L		99	55 - 144
Carbon disulfide	ND		2500	2970		ug/L		119	59 - 134

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

Lab Sample ID: 480-179239-11 MS
Matrix: Water
Analysis Batch: 562933

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	ND		2500	2980		ug/L		119	72 - 134
Chlorobenzene	ND		2500	2730		ug/L		109	80 - 120
Dibromochloromethane	ND		2500	2820		ug/L		113	75 - 125
Chloroethane	ND		2500	2480		ug/L		99	69 - 136
Chloroform	ND		2500	2790		ug/L		112	73 - 127
Chloromethane	ND		2500	2270		ug/L		91	68 - 124
cis-1,2-Dichloroethene	1200	F1	2500	4400	F1	ug/L		127	74 - 124
cis-1,3-Dichloropropene	ND		2500	2550		ug/L		102	74 - 124
Cyclohexane	ND		2500	3020		ug/L		121	59 - 135
Dichlorodifluoromethane	ND		2500	2610		ug/L		104	59 - 135
Ethylbenzene	ND		2500	2980		ug/L		119	77 - 123
1,2-Dibromoethane	ND		2500	2530		ug/L		101	77 - 120
Isopropylbenzene	ND		2500	2890		ug/L		116	77 - 122
Methyl acetate	ND		5000	4350		ug/L		87	74 - 133
Methyl tert-butyl ether	ND		2500	2790		ug/L		111	77 - 120
Methylcyclohexane	ND		2500	2840		ug/L		114	68 - 134
Methylene Chloride	ND		2500	2840		ug/L		114	75 - 124
Styrene	ND	F1	2500	3190	F1	ug/L		128	80 - 120
Tetrachloroethene	ND		2500	2740		ug/L		110	74 - 122
Toluene	ND		2500	2750		ug/L		110	80 - 122
trans-1,2-Dichloroethene	ND		2500	2960		ug/L		118	73 - 127
trans-1,3-Dichloropropene	ND		2500	2450		ug/L		98	80 - 120
Trichloroethene	7200	F1	2500	10400	E F1	ug/L		131	74 - 123
Trichlorofluoromethane	ND		2500	2850		ug/L		114	62 - 150
Vinyl chloride	ND		2500	2210		ug/L		88	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-179239-11 MSD
Matrix: Water
Analysis Batch: 562933

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2500	2720		ug/L		109	73 - 126	14	15
1,1,2,2-Tetrachloroethane	ND		2500	2360		ug/L		95	76 - 120	1	15
1,1,2-Trichloroethane	ND		2500	2600		ug/L		104	76 - 122	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	2680		ug/L		107	61 - 148	16	20
1,1-Dichloroethane	ND		2500	2850		ug/L		114	77 - 120	5	20
1,1-Dichloroethene	ND		2500	2520		ug/L		101	66 - 127	16	16
1,2,4-Trichlorobenzene	ND		2500	2550		ug/L		102	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		2500	2110		ug/L		84	56 - 134	3	15
1,2-Dichlorobenzene	ND		2500	2650		ug/L		106	80 - 124	2	20
1,2-Dichloroethane	ND		2500	2660		ug/L		106	75 - 120	8	20
1,2-Dichloropropane	ND		2500	2750		ug/L		110	76 - 120	5	20

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

Lab Sample ID: 480-179239-11 MSD
Matrix: Water
Analysis Batch: 562933

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		2500	2610		ug/L		104	77 - 120	2	20
1,4-Dichlorobenzene	ND		2500	2590		ug/L		103	78 - 124	2	20
2-Butanone (MEK)	ND		12500	10800		ug/L		87	57 - 140	4	20
2-Hexanone	ND		12500	11600		ug/L		93	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		12500	11900		ug/L		95	71 - 125	1	35
Acetone	ND		12500	10000		ug/L		80	56 - 142	5	15
Benzene	ND		2500	2640		ug/L		106	71 - 124	8	13
Bromodichloromethane	ND		2500	2820		ug/L		113	80 - 122	7	15
Bromoform	ND		2500	2320		ug/L		93	61 - 132	3	15
Bromomethane	ND	F2	2500	2040	F2	ug/L		82	55 - 144	20	15
Carbon disulfide	ND		2500	2600		ug/L		104	59 - 134	13	15
Carbon tetrachloride	ND		2500	2620		ug/L		105	72 - 134	13	15
Chlorobenzene	ND		2500	2630		ug/L		105	80 - 120	4	25
Dibromochloromethane	ND		2500	2720		ug/L		109	75 - 125	4	15
Chloroethane	ND		2500	2130		ug/L		85	69 - 136	15	15
Chloroform	ND		2500	2550		ug/L		102	73 - 127	9	20
Chloromethane	ND		2500	1990		ug/L		80	68 - 124	13	15
cis-1,2-Dichloroethene	1200	F1	2500	4100		ug/L		115	74 - 124	7	15
cis-1,3-Dichloropropene	ND		2500	2450		ug/L		98	74 - 124	4	15
Cyclohexane	ND		2500	2720		ug/L		109	59 - 135	10	20
Dichlorodifluoromethane	ND		2500	2250		ug/L		90	59 - 135	15	20
Ethylbenzene	ND		2500	2740		ug/L		110	77 - 123	8	15
1,2-Dibromoethane	ND		2500	2520		ug/L		101	77 - 120	0	15
Isopropylbenzene	ND		2500	2820		ug/L		113	77 - 122	3	20
Methyl acetate	ND		5000	4120		ug/L		82	74 - 133	6	20
Methyl tert-butyl ether	ND		2500	2610		ug/L		105	77 - 120	6	37
Methylcyclohexane	ND		2500	2560		ug/L		103	68 - 134	10	20
Methylene Chloride	ND		2500	2560		ug/L		103	75 - 124	10	15
Styrene	ND	F1	2500	2950		ug/L		118	80 - 120	8	20
Tetrachloroethene	ND		2500	2600		ug/L		104	74 - 122	5	20
Toluene	ND		2500	2670		ug/L		107	80 - 122	3	15
trans-1,2-Dichloroethene	ND		2500	2620		ug/L		105	73 - 127	12	20
trans-1,3-Dichloropropene	ND		2500	2410		ug/L		97	80 - 120	1	15
Trichloroethene	7200	F1	2500	9520		ug/L		94	74 - 123	9	16
Trichlorofluoromethane	ND		2500	2630		ug/L		105	62 - 150	8	20
Vinyl chloride	ND		2500	2060		ug/L		82	65 - 133	7	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

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

Lab Sample ID: MB 480-563006/7
Matrix: Water
Analysis Batch: 563006

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/12/20 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/20 11:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/20 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/20 11:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/20 11:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/20 11:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/20 11:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/20 11:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/20 11:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/20 11:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/20 11:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/20 11:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/20 11:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/20 11:14	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/20 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/20 11:14	1
Acetone	ND		10	3.0	ug/L			12/12/20 11:14	1
Benzene	ND		1.0	0.41	ug/L			12/12/20 11:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/20 11:14	1
Bromoform	ND		1.0	0.26	ug/L			12/12/20 11:14	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/20 11:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/20 11:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/20 11:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/20 11:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/20 11:14	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/20 11:14	1
Chloroform	ND		1.0	0.34	ug/L			12/12/20 11:14	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/20 11:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/20 11:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/20 11:14	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/20 11:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/20 11:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/20 11:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/20 11:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/20 11:14	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/20 11:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/20 11:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/20 11:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/20 11:14	1
Styrene	ND		1.0	0.73	ug/L			12/12/20 11:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/20 11:14	1
Toluene	ND		1.0	0.51	ug/L			12/12/20 11:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/20 11:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/20 11:14	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/20 11:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/20 11:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/20 11:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/20 11:14	1

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

Lab Sample ID: MB 480-563006/7
Matrix: Water
Analysis Batch: 563006

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	29.9		ug/L		6.14	78-83-1		12/12/20 11:14	1
1,4-Dioxane	26.8	J	ug/L		7.17	123-91-1		12/12/20 11:14	1
Tentatively Identified Compound	None		ug/L					12/12/20 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		12/12/20 11:14	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		12/12/20 11:14	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/12/20 11:14	1
Dibromofluoromethane (Surr)	100		75 - 123		12/12/20 11:14	1

Lab Sample ID: LCS 480-563006/5
Matrix: Water
Analysis Batch: 563006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.5		ug/L		86	76 - 120
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.8		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	26.1		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	24.2		ug/L		97	66 - 127
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.5		ug/L		74	56 - 134
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	106		ug/L		84	57 - 140
2-Hexanone	125	106		ug/L		85	65 - 127
4-Methyl-2-pentanone (MIBK)	125	107		ug/L		86	71 - 125
Acetone	125	102		ug/L		82	56 - 142
Benzene	25.0	25.5		ug/L		102	71 - 124
Bromodichloromethane	25.0	26.5		ug/L		106	80 - 122
Bromoform	25.0	20.6		ug/L		82	61 - 132
Bromomethane	25.0	18.9		ug/L		76	55 - 144
Carbon disulfide	25.0	24.6		ug/L		99	59 - 134
Carbon tetrachloride	25.0	24.9		ug/L		100	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125
Chloroethane	25.0	19.2		ug/L		77	69 - 136
Chloroform	25.0	24.5		ug/L		98	73 - 127
Chloromethane	25.0	18.6		ug/L		75	68 - 124
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		99	74 - 124
Cyclohexane	25.0	25.7		ug/L		103	59 - 135
Dichlorodifluoromethane	25.0	19.0		ug/L		76	59 - 135

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

Lab Sample ID: LCS 480-563006/5
Matrix: Water
Analysis Batch: 563006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	25.0	25.9		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	23.5		ug/L		94	77 - 120
Isopropylbenzene	25.0	26.9		ug/L		108	77 - 122
Methyl acetate	50.0	39.6		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	24.4		ug/L		97	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124
Styrene	25.0	27.5		ug/L		110	80 - 120
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		95	80 - 120
Trichloroethene	25.0	25.4		ug/L		102	74 - 123
Trichlorofluoromethane	25.0	23.8		ug/L		95	62 - 150
Vinyl chloride	25.0	18.5		ug/L		74	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-563075/1-A
Matrix: Water
Analysis Batch: 563249

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/14/20 10:39	12/14/20 19:59	1
Antimony	ND		0.020	0.0068	mg/L		12/14/20 10:39	12/14/20 19:59	1
Arsenic	ND		0.015	0.0056	mg/L		12/14/20 10:39	12/14/20 19:59	1
Barium	ND	^6+	0.0020	0.00070	mg/L		12/14/20 10:39	12/14/20 19:59	1
Cadmium	ND		0.0020	0.00050	mg/L		12/14/20 10:39	12/14/20 19:59	1
Calcium	ND		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 19:59	1
Chromium	ND		0.0040	0.0010	mg/L		12/14/20 10:39	12/14/20 19:59	1
Cobalt	ND		0.0040	0.00063	mg/L		12/14/20 10:39	12/14/20 19:59	1
Iron	ND		0.050	0.019	mg/L		12/14/20 10:39	12/14/20 19:59	1
Lead	ND		0.010	0.0030	mg/L		12/14/20 10:39	12/14/20 19:59	1
Magnesium	ND		0.20	0.043	mg/L		12/14/20 10:39	12/14/20 19:59	1
Manganese	ND		0.0030	0.00040	mg/L		12/14/20 10:39	12/14/20 19:59	1
Nickel	ND		0.010	0.0013	mg/L		12/14/20 10:39	12/14/20 19:59	1
Potassium	ND		0.50	0.10	mg/L		12/14/20 10:39	12/14/20 19:59	1
Selenium	ND		0.025	0.0087	mg/L		12/14/20 10:39	12/14/20 19:59	1
Silver	ND		0.0060	0.0017	mg/L		12/14/20 10:39	12/14/20 19:59	1
Sodium	ND		1.0	0.32	mg/L		12/14/20 10:39	12/14/20 19:59	1
Thallium	ND		0.020	0.010	mg/L		12/14/20 10:39	12/14/20 19:59	1
Vanadium	ND		0.0050	0.0015	mg/L		12/14/20 10:39	12/14/20 19:59	1
Zinc	0.00350	J	0.010	0.0015	mg/L		12/14/20 10:39	12/14/20 19:59	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-563075/1-A
Matrix: Water
Analysis Batch: 563475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.0020	0.00030	mg/L		12/14/20 10:39	12/15/20 16:49	1
Copper	ND		0.010	0.0016	mg/L		12/14/20 10:39	12/15/20 16:49	1

Lab Sample ID: LCS 480-563075/2-A
Matrix: Water
Analysis Batch: 563249

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.94		mg/L		99	80 - 120
Antimony	0.200	0.197		mg/L		99	80 - 120
Arsenic	0.200	0.198		mg/L		99	80 - 120
Barium	0.200	0.203	^6+	mg/L		102	80 - 120
Cadmium	0.200	0.197		mg/L		98	80 - 120
Calcium	10.0	9.86		mg/L		99	80 - 120
Chromium	0.200	0.181		mg/L		90	80 - 120
Cobalt	0.200	0.185		mg/L		93	80 - 120
Iron	10.0	9.35		mg/L		94	80 - 120
Lead	0.200	0.196		mg/L		98	80 - 120
Magnesium	10.0	9.54		mg/L		95	80 - 120
Manganese	0.200	0.193		mg/L		96	80 - 120
Nickel	0.200	0.184		mg/L		92	80 - 120
Potassium	10.0	9.46		mg/L		95	80 - 120
Selenium	0.200	0.191		mg/L		96	80 - 120
Silver	0.0500	0.0460		mg/L		92	80 - 120
Sodium	10.0	9.67		mg/L		97	80 - 120
Thallium	0.200	0.189		mg/L		94	80 - 120
Vanadium	0.200	0.178		mg/L		89	80 - 120
Zinc	0.200	0.188		mg/L		94	80 - 120

Lab Sample ID: LCS 480-563075/2-A
Matrix: Water
Analysis Batch: 563475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.200	0.200		mg/L		100	80 - 120
Copper	0.200	0.201		mg/L		101	80 - 120

Lab Sample ID: LCSD 480-563075/3-A
Matrix: Water
Analysis Batch: 563249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563075

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	9.92		mg/L		99	80 - 120	0	20
Antimony	0.200	0.197		mg/L		98	80 - 120	0	20
Arsenic	0.200	0.198		mg/L		99	80 - 120	0	20
Barium	0.200	0.205	^6+	mg/L		103	80 - 120	1	20
Cadmium	0.200	0.197		mg/L		99	80 - 120	0	20
Calcium	10.0	9.81		mg/L		98	80 - 120	0	20
Chromium	0.200	0.185		mg/L		93	80 - 120	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-563075/3-A
Matrix: Water
Analysis Batch: 563249

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563075

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt			0.200	0.186		mg/L		93	80 - 120	1	20
Iron			10.0	9.39		mg/L		94	80 - 120	0	20
Lead			0.200	0.196		mg/L		98	80 - 120	0	20
Magnesium			10.0	9.67		mg/L		97	80 - 120	1	20
Manganese			0.200	0.195		mg/L		98	80 - 120	1	20
Nickel			0.200	0.185		mg/L		92	80 - 120	1	20
Potassium			10.0	9.58		mg/L		96	80 - 120	1	20
Selenium			0.200	0.193		mg/L		97	80 - 120	1	20
Silver			0.0500	0.0464		mg/L		93	80 - 120	1	20
Sodium			10.0	9.64		mg/L		96	80 - 120	0	20
Thallium			0.200	0.191		mg/L		96	80 - 120	1	20
Vanadium			0.200	0.183		mg/L		92	80 - 120	3	20
Zinc			0.200	0.192		mg/L		96	80 - 120	2	20

Lab Sample ID: LCSD 480-563075/3-A
Matrix: Water
Analysis Batch: 563475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 563075

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Beryllium			0.200	0.206		mg/L		103	80 - 120	3	20
Copper			0.200	0.203		mg/L		101	80 - 120	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-563115/1-A
Matrix: Water
Analysis Batch: 563182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 18:04	1

Lab Sample ID: LCS 480-563115/2-A
Matrix: Water
Analysis Batch: 563182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563115

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00697		mg/L		104	80 - 120		

Lab Sample ID: MB 480-563120/1-A
Matrix: Water
Analysis Batch: 563182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 563120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/14/20 14:32	12/14/20 18:52	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 480-563120/2-A
Matrix: Water
Analysis Batch: 563182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 563120

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00707		mg/L		106	80 - 120		

Lab Sample ID: 480-179239-2 MS
Matrix: Water
Analysis Batch: 563182

Client Sample ID: RFI-36
Prep Type: Total/NA
Prep Batch: 563120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00712		mg/L		107	80 - 120		

Lab Sample ID: 480-179239-2 MSD
Matrix: Water
Analysis Batch: 563182

Client Sample ID: RFI-36
Prep Type: Total/NA
Prep Batch: 563120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00703		mg/L		105	80 - 120	1	20

GC/MS VOA

Analysis Batch: 562933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	8260C	
480-179239-2	RFI-36	Total/NA	Water	8260C	
480-179239-3	RFI-18	Total/NA	Water	8260C	
480-179239-4	MW-7	Total/NA	Water	8260C	
480-179239-5	RFI-26	Total/NA	Water	8260C	
480-179239-7	RFI-27	Total/NA	Water	8260C	
480-179239-8	RFI-05A	Total/NA	Water	8260C	
480-179239-9	RFI-31	Total/NA	Water	8260C	
480-179239-10	MW-8	Total/NA	Water	8260C	
480-179239-11	LAE-4	Total/NA	Water	8260C	
MB 480-562933/8	Method Blank	Total/NA	Water	8260C	
LCS 480-562933/6	Lab Control Sample	Total/NA	Water	8260C	
480-179239-11 MS	LAE-4	Total/NA	Water	8260C	
480-179239-11 MSD	LAE-4	Total/NA	Water	8260C	

Analysis Batch: 563006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-6	RFI-34	Total/NA	Water	8260C	
MB 480-563006/7	Method Blank	Total/NA	Water	8260C	
LCS 480-563006/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 563075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	3005A	
480-179239-2	RFI-36	Total/NA	Water	3005A	
480-179239-3	RFI-18	Total/NA	Water	3005A	
480-179239-4	MW-7	Total/NA	Water	3005A	
480-179239-5	RFI-26	Total/NA	Water	3005A	
480-179239-6	RFI-34	Total/NA	Water	3005A	
480-179239-7	RFI-27	Total/NA	Water	3005A	
480-179239-8	RFI-05A	Total/NA	Water	3005A	
480-179239-9	RFI-31	Total/NA	Water	3005A	
480-179239-10	MW-8	Total/NA	Water	3005A	
480-179239-11	LAE-4	Total/NA	Water	3005A	
MB 480-563075/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-563075/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-563075/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Prep Batch: 563115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	7470A	
MB 480-563115/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-563115/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 563120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-2	RFI-36	Total/NA	Water	7470A	
480-179239-3	RFI-18	Total/NA	Water	7470A	
480-179239-4	MW-7	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 563120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-5	RFI-26	Total/NA	Water	7470A	
480-179239-6	RFI-34	Total/NA	Water	7470A	
480-179239-7	RFI-27	Total/NA	Water	7470A	
480-179239-8	RFI-05A	Total/NA	Water	7470A	
480-179239-9	RFI-31	Total/NA	Water	7470A	
480-179239-10	MW-8	Total/NA	Water	7470A	
480-179239-11	LAE-4	Total/NA	Water	7470A	
MB 480-563120/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-563120/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-179239-2 MS	RFI-36	Total/NA	Water	7470A	
480-179239-2 MSD	RFI-36	Total/NA	Water	7470A	

Analysis Batch: 563182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	7470A	563115
480-179239-2	RFI-36	Total/NA	Water	7470A	563120
480-179239-3	RFI-18	Total/NA	Water	7470A	563120
480-179239-4	MW-7	Total/NA	Water	7470A	563120
480-179239-5	RFI-26	Total/NA	Water	7470A	563120
480-179239-6	RFI-34	Total/NA	Water	7470A	563120
480-179239-7	RFI-27	Total/NA	Water	7470A	563120
480-179239-8	RFI-05A	Total/NA	Water	7470A	563120
480-179239-9	RFI-31	Total/NA	Water	7470A	563120
480-179239-10	MW-8	Total/NA	Water	7470A	563120
480-179239-11	LAE-4	Total/NA	Water	7470A	563120
MB 480-563115/1-A	Method Blank	Total/NA	Water	7470A	563115
MB 480-563120/1-A	Method Blank	Total/NA	Water	7470A	563120
LCS 480-563115/2-A	Lab Control Sample	Total/NA	Water	7470A	563115
LCS 480-563120/2-A	Lab Control Sample	Total/NA	Water	7470A	563120
480-179239-2 MS	RFI-36	Total/NA	Water	7470A	563120
480-179239-2 MSD	RFI-36	Total/NA	Water	7470A	563120

Analysis Batch: 563249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	6010C	563075
480-179239-2	RFI-36	Total/NA	Water	6010C	563075
480-179239-3	RFI-18	Total/NA	Water	6010C	563075
480-179239-4	MW-7	Total/NA	Water	6010C	563075
480-179239-5	RFI-26	Total/NA	Water	6010C	563075
480-179239-6	RFI-34	Total/NA	Water	6010C	563075
480-179239-7	RFI-27	Total/NA	Water	6010C	563075
480-179239-8	RFI-05A	Total/NA	Water	6010C	563075
480-179239-9	RFI-31	Total/NA	Water	6010C	563075
480-179239-10	MW-8	Total/NA	Water	6010C	563075
480-179239-11	LAE-4	Total/NA	Water	6010C	563075
MB 480-563075/1-A	Method Blank	Total/NA	Water	6010C	563075
LCS 480-563075/2-A	Lab Control Sample	Total/NA	Water	6010C	563075
LCSD 480-563075/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	563075

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Metals

Analysis Batch: 563475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-179239-1	RFI-35	Total/NA	Water	6010C	563075
480-179239-2	RFI-36	Total/NA	Water	6010C	563075
480-179239-3	RFI-18	Total/NA	Water	6010C	563075
480-179239-4	MW-7	Total/NA	Water	6010C	563075
480-179239-5	RFI-26	Total/NA	Water	6010C	563075
480-179239-6	RFI-34	Total/NA	Water	6010C	563075
480-179239-7	RFI-27	Total/NA	Water	6010C	563075
480-179239-8	RFI-05A	Total/NA	Water	6010C	563075
480-179239-9	RFI-31	Total/NA	Water	6010C	563075
480-179239-10	MW-8	Total/NA	Water	6010C	563075
480-179239-11	LAE-4	Total/NA	Water	6010C	563075
MB 480-563075/1-A	Method Blank	Total/NA	Water	6010C	563075
LCS 480-563075/2-A	Lab Control Sample	Total/NA	Water	6010C	563075
LCSD 480-563075/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	563075

Client Sample ID: RFI-35
Lab Sample ID: 480-179239-1

Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/11/20 23:57	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 20:43	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:00	LMH	TAL BUF
Total/NA	Prep	7470A			563115	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 18:47	BMB	TAL BUF

Client Sample ID: RFI-36
Lab Sample ID: 480-179239-2

Date Collected: 12/10/20 09:00
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/12/20 00:23	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 20:46	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:04	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 18:55	BMB	TAL BUF

Client Sample ID: RFI-18
Lab Sample ID: 480-179239-3

Date Collected: 12/10/20 09:45
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/12/20 00:48	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 20:50	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:07	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:01	BMB	TAL BUF

Client Sample ID: MW-7
Lab Sample ID: 480-179239-4

Date Collected: 12/10/20 09:35
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	562933	12/12/20 01:13	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 20:54	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:11	LMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-7
Lab Sample ID: 480-179239-4
Date Collected: 12/10/20 09:35
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:03	BMB	TAL BUF

Client Sample ID: RFI-26
Lab Sample ID: 480-179239-5
Date Collected: 12/10/20 10:35
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	562933	12/12/20 01:38	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 20:58	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:15	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:04	BMB	TAL BUF

Client Sample ID: RFI-34
Lab Sample ID: 480-179239-6
Date Collected: 12/10/20 10:50
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	563006	12/12/20 11:55	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:02	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:19	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:06	BMB	TAL BUF

Client Sample ID: RFI-27
Lab Sample ID: 480-179239-7
Date Collected: 12/10/20 10:35
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/12/20 02:27	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:05	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:33	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:11	BMB	TAL BUF

Client Sample ID: RFI-05A
Lab Sample ID: 480-179239-8

Date Collected: 12/10/20 11:35
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/12/20 02:53	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:09	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:37	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:12	BMB	TAL BUF

Client Sample ID: RFI-31
Lab Sample ID: 480-179239-9

Date Collected: 12/10/20 12:40
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	562933	12/12/20 03:18	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:24	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:41	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:14	BMB	TAL BUF

Client Sample ID: MW-8
Lab Sample ID: 480-179239-10

Date Collected: 12/10/20 12:30
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	562933	12/12/20 03:42	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:28	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:45	LMH	TAL BUF
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:15	BMB	TAL BUF

Client Sample ID: LAE-4
Lab Sample ID: 480-179239-11

Date Collected: 12/10/20 00:00
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	562933	12/12/20 04:07	CRL	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563249	12/14/20 21:31	LMH	TAL BUF
Total/NA	Prep	3005A			563075	12/14/20 10:39	ADM	TAL BUF
Total/NA	Analysis	6010C		1	563475	12/15/20 17:48	LMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: LAE-4
Lab Sample ID: 480-179239-11
Date Collected: 12/10/20 00:00
Matrix: Water
Date Received: 12/10/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			563120	12/14/20 14:32	BMB	TAL BUF
Total/NA	Analysis	7470A		1	563182	12/14/20 19:17	BMB	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-179239-1
Project/Site: Al Tech Specialty Steel #907022

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-179239-1	RFI-35	Water	12/10/20 09:00	12/10/20 14:00	
480-179239-2	RFI-36	Water	12/10/20 09:00	12/10/20 14:00	
480-179239-3	RFI-18	Water	12/10/20 09:45	12/10/20 14:00	
480-179239-4	MW-7	Water	12/10/20 09:35	12/10/20 14:00	
480-179239-5	RFI-26	Water	12/10/20 10:35	12/10/20 14:00	
480-179239-6	RFI-34	Water	12/10/20 10:50	12/10/20 14:00	
480-179239-7	RFI-27	Water	12/10/20 10:35	12/10/20 14:00	
480-179239-8	RFI-05A	Water	12/10/20 11:35	12/10/20 14:00	
480-179239-9	RFI-31	Water	12/10/20 12:40	12/10/20 14:00	
480-179239-10	MW-8	Water	12/10/20 12:30	12/10/20 14:00	
480-179239-11	LAE-4	Water	12/10/20 00:00	12/10/20 14:00	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-154110-34187.2
Client Contact: ~~Jennifer Clay~~ Pat Colern	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 2 of 4
Company: Groundwater & Environmental Services Inc	PWSID:			Job #:

Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:
City: Williamsville	TAT Requested (days):
State, Zip: NY, 14221	Compliance Project: Δ Yes Δ No
Phone:	PO #: CallOut ID: 137005
Email: jeclay@gesonline.com	WO #:
Project Name: Altech Specialty Steel #907022	Project #: 48020089
Site: GES Project # 0901688	SSOW#:

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Number of containers	Special Instructions/Note:
		Preservation Code:					A	D	N		
RFI-35	12-10-20	0900	G	Water			X	X			
RFI-36		0900		Water			X	X			
RFI-18		0945		Water			X	X			
MW-7		0935		Water			X	X			
RFI-26		1035		Water			X	X			
RFI-34		1050		Water			X	X			
RFI-27		1035		Water			X	X			
RFI-05A		1135		Water			X	X			
RFI-31		1240		Water			X	X			
MW-8		1230		Water			X	X			
LAE-4				Water			X	X			

480-179239 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 12-10-20	Company: GES	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/10/20 1400	Company TTAL

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4 #1

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-154110-34187.3
Client Contact: ~~Jennifer Clay~~ Pat Colero	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: Groundwater & Environmental Services Inc	PWSID:			Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days):			
State, Zip: NY, 14221	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID: 137005			
Email: jeclay@gesonline.com	WO #:			
Project Name: Altech Specialty Steel #907022	Project #: 48020089			
Site: GES project #0901688	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N		
Trip Blank	—	—	—	Water			X	X			
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Pat Colero	12-10-20	GES			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-179239-1

Login Number: 179239

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix B – DUSR

RemVēr

Quality Assessment
Data Usability Summary Report

			RemVēr Project #2020GE44 Client Project #0901688-06-840
Site:	Al-Tech, Dunkirk, NY	**Site #:**	907022
Client:	NYSDEC via GES, Inc.	**Site Owner:**	–N/A–
Sample Delivery Groups (SDGs)	See Table #1		
Sample Matrix:	☐ Drinking water ☒ Groundwater ☐ Surface water ☐ Soil ☐ Sediment ☐ Air ☐ Biota (tissue, type: _____) ☐ Other: _____		

Introduction

Groundwater & Environmental Services (GES) contracted RemVēr to perform a data quality assessment (DQA) on analytical laboratory data of groundwater samples. Eurofins/Test America (E/TA) reported the data in separate Sample Delivery Groups (SDGs, see Table 1). Table 2 provides a cross-list of the samples associated with each SDG.

A DQA is an evaluation of the performance of analytical procedures and quality of the resulting data. Following the requirements of the New York State Department of Environmental Conservation (NYSDEC) Data Usability Summary Report (DUSR) guidelines for an Analytical Services Protocol (ASP) Category B Data Deliverable, RemVēr prepared a separate DQA/DUSR sub-report for each SDG, evaluating the performance of the analytical procedures and the quality of the resulting data. Each sub-report includes a narrative discussion of qualified sample, a DQA Detail Worksheet, and a Non-Conformance Summary Worksheet describing the final reported qualification flags applied to the data during the DQA. Additionally, a validated EXCEL electronic data deliverable (EDD) is included with this deliverable for each SDG discussed herein.

Intended Use of Data Under Review

NYSDEC contracted GES to perform a 2020 site-wide comprehensive groundwater monitoring event at the referenced site. The monitoring event's (December 2019) purpose was to update the existing groundwater dataset with current synoptic conditions. This report focuses on samples collected from wells along Lucas Street, which is immediately north of the site. Sampling was to provide analyses of groundwater conditions for the presence of volatile organic compounds (VOCs) and metals/metalloids.

Significant Data Usability Issues in This Group of SDGs

RemVer rejected no results and they are acceptable for use. Certain results may have flagged analytes indicating non-detection or quality issues arising from sample handling, laboratory accuracy, or precision issues. Refer to the individual SDG Lab Results and the two respective Data Usability Narrative section of each DUSR sub-report for further detail.

Reported Methods

- ☐ Method 1311 TCLP
- ☐ Method 1312 SPLP
- ☒ Method 6010A, B & C / 6020 Trace Metals
- ☐ Method 7000 Metals
- ☒ Method 7196 Hexavalent Chromium (other:_____)
- ☒ Method 7470A or 7471 Mercury
- ☐ Method 8021 Volatile Organic Compounds (VOCs) GC
- ☐ Method 8081B or ☐ 608 Pesticides
- ☐ Method 8082 or ☐ 608 PCBs
- ☐ Method 8151 Chlorinated Herbicides
- ☒ Method 8260C VOCs GC/MS
- ☐ Method 8270D Semi-VOCs (sVOCs) GC/MS &/or SIM-ID
- ☐ Method 9010/9012/9014 Cyanides (_____)
- ☐ Method TO-13A PAHs (air)
- ☐ Method TO-14A / -15 VOCs (air, summa) (_____)
- ☐ Method TO-17 VOCs (air, sorbent)
- ☐ Method 537 PFCs via SPE & LC/MS-MS
- ☐ Volatile Petroleum Hydrocarbons (VPH) Method
- ☐ Extractable Petroleum Hydrocarbons (EPH)
- ☒ Other Methods:
  - ☑ Method 3005A Total Metals Preparation
  - ☑ Method 5030A/B/C Purge & Trap
  - ☑ Method 7470A Mercury Preparation

Quality Control Requirements Summary

- ☒ Duplicate
- ☒ Matrix Spike [MS] / Matrix Spike Duplicate [MSD]
- ☒ Trip Blanks (as appropriate)
- ☐ Equipment, Method, &/or Rinsate Blank
- ☒ Other Field QC: Field notes regarding sampling
- ☐ Special QAPP Requirements: _____

Table 1. Sample Data Group (SDG) List

SDG 480-#	# Samples	# Blanks	# Duplicates	Sample Date	METHODS			
					VOCs	Metals	Hg	Cr $^{6+}$
179177	11	1	1	12/09/2020	X	X	X	X
179239	11	—	—	12/10/2020	X	X	X	—

Table 2. SDG and Sample List

Count	SDG 480-#	Sample #	Sample Name	Sample Date	Received
1	179177	#–1	RFI-08A	12/09/20 09:10	12/09/20 15:30
2		#–2	TW-6	12/09/20 09:15	12/09/20 15:30
3		#–3	TW-7	12/09/20 10:00	12/09/20 15:30
4		#–4	DUP-120920	12/09/20 00:00	12/09/20 15:30
5		#–5	TW-8	12/09/20 10:10	12/09/20 15:30
6		#–6	TW-9	12/09/20 10:45	12/09/20 15:30
7		#–7	TW-12	12/09/20 11:15	12/09/20 15:30
8		#–8	TW-13	12/09/20 11:40	12/09/20 15:30
9		#–9	TW-14	12/09/20 12:00	12/09/20 15:30
10		#–10	TW-15	12/09/20 12:30	12/09/20 15:30
11		#–11	MW-6	12/09/20 13:30	12/09/20 15:30
12		#–12	TW-5A	12/09/20 14:15	12/09/20 15:30
13		#–13	TRIP BLANK	12/09/20 00:00	12/09/20 15:30

Count	SDG 480-#	Sample #	Sample Name	Sample Date	Received
14	179239	#–1	RFI-35	12/10/20 09:00	12/10/20 14:00
15		#–2	RFI-36	12/10/20 09:00	12/10/20 14:00
16		#–3	RFI-18	12/10/20 09:45	12/10/20 14:00
17		#–4	MW-7	12/10/20 09:35	12/10/20 14:00
18		#–5	RFI-26	12/10/20 10:35	12/10/20 14:00
19		#–6	RFI-34	12/10/20 10:50	12/10/20 14:00
20		#–7	RFI-27	12/10/20 10:35	12/10/20 14:00
21		#–8	RFI-05A	12/10/20 11:35	12/10/20 14:00
22		#–9	RFI-31	12/10/20 12:40	12/10/20 14:00
23		#–10	MW-8	12/10/20 12:30	12/10/20 14:00
24		#–11	LAE-4	12/10/20 00:00	12/10/20 14:00

References

NYSDEC, 2010, *Technical Guidance for Site Investigation and Remediation*, "DER-10," Division of Environmental Remediation: Albany, NY, May, 232p

NYSDEC, 2010, *Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, Appendix 2B IN *Technical Guidance for Site Investigation and Remediation*, Division of Environmental Remediation: Albany, NY, May, 232p

USEPA, 2008, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, OSWER 9240.1-48, USEPA-540-R-08-01, Office of Superfund Remediation and Technology Innovation: Washington, DC, June, 225p

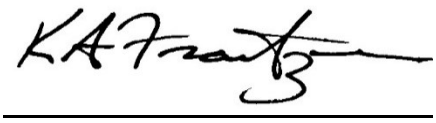
USEPA, 2010, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, OSWER 9240.1-51, USEPA-540-R-10-011, Office of Superfund Remediation and Technology Innovation: Washington, DC, January, 110p

USEPA, 2012, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846*, Current Online Revision: http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm, accessed April 2012

Attachments

1. Qualifier Flags
2. Data Usability Reviewer Biography
3. DUSR Sub-Report for SDG #480-179177
4. DUSR Sub-Report for SDG #480-179239

NOTE: Each DUSR Sub-Report has an associated separate annotated EDD with validation attached hereto (Excel File Name Format: SDG-#_EquaNysdec-V.xls)



Prepared by: Kurt A. Frantzen, PhD
January 8, 2021

GES PO #1114255-1100

Attachment 1. Qualifier Flags

Qualifier	Quality Implication
0–9	Use with Coeluting Congeners
A	Tentatively Identified Compound (TIC) suspected to be an aldol condensation product
B | EB **TB | BB** **RB** **BH/BL**	An analyte identified in method blank (B), aqueous equipment (EB), rinsate (RB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results. Analyte detected in Blank at level >10X/5-10X that of the Sample
D	Sample analysis from dilution of original sample
E	Analyte concentration exceeds calibration range
HT	Holding time violation
J	Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample
J +	Sample likely to have a high bias
J –	Sample likely to have a low bias
UJ	Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	Sample result rejected due to serious deficiency in ability to analyze sample and meet quality control criteria; the presence or absence of the analyte cannot be confirmed. This qualifier also may apply when more than one sample result is generated for a target analyte (*i.e.*, dilutions or re-analyses), the most technically acceptable result is considered acceptable.
P	Use professional judgment based on data use. It usually has an "M" with it, which indicates that a manual check should be made if the data that are qualified with the "P" are important to the data user. In addition, "PM" also means a decision is necessary from the Project Manager (or a delegate) concerning the need for further review of the data (*see below*).
PM	A manual review of the raw data is recommended to determine if the defect affects data use, as in "R" above. This review should include consideration of potential affects that could result from using the "P" qualified data. For example, in the case of holding-time exceedance, the Project Manager or delegate can decide to use the data with no qualification when analytes of interest are known not to be adversely affected by holding-time exceedances. Another example is the case where soil sample duplicate analyses for metals exceed the precision criteria; because this is likely due to sample non-homogeneity rather than contract laboratory error, then the manager or delegate must decide how to use the data.
U	Analyte analyzed for, but not detected above the sample's reported quantitation limit

Attachment 2. Data Usability Reviewer: Kurt A. Frantzen, PhD

Experience

2013-Present	d/b/a RemVēr	Owner
2014-2019	AECC	Senior EHS Consultant
2011-2012	RemVēr, Inc.	President
2006-2011	Kleinfelder	Senior Principal Scientist
2005	Kleinfelder	Principal Scientist, Part-Time/On Call
2004-2006	d/b/a Environmental Risk Group	Owner
2004-2006	RemVēr, Inc., Larchmont, NY	Founder, President
1999-2004	VHB, Inc.	ERM Director & Associate
1997-1998	GEI Consultants, Inc.	Senior Project Manager
1992-1997	Ecology and Environment, Inc.	Technical Chief
1991-1992	EA Engineering, Science, & Technology, Inc.	Project Manager III
1990-1991	Ecology and Environment, Inc.	Technical Group Manager
1986-1990	Ecology and Environment, Inc.	Senior Environmental Scientist

Education

Am Cancer Soc. Post-Doctoral Fellow, U Washington 1985-1986

PhD—Life Sci. / Biochem, NU—Lincoln	1985
MS—Plant Pathology, Kansas State Univ.	1980
BS—Biology, NU—Omaha	1978

Other

- CERCLA & RCRA experience, as well as DOD (Air Force & Army) & DOE (INEL)
- NE Regional Experience—NY BCP; Mass MCP; & various sites in CT, RI & NH
- National Experience: NE, SE, Gulf & West Coast, Mid-west, Inter-mountain, California, Alaska
- International: Germany, Israel, Kuwait, Australia
- Selected Publications
    - *Using Risk Appraisals to Manage Environmentally Impaired Properties*, 2000, VHB Site Works, Report 108
    - *Risk-Based Analysis for Environmental Managers*, 2001, CRC/Lewis
    - Chapter 7 Risk Assessment, *Managing Hazardous Materials*, 2002 & 2009, IHMM
    - Chapter 22 Cleanup Goals, *Brownfields Law & Practice*, 2004-Present, Lexis/Nexis
    - *Use of Risk Assessment in Risk Management of Contaminated Sites*, 2008, ITRC
- 63 Conference Papers & Invited Professional Presentations
    - 1999-2021, Visiting Lecturer, Brownfields Program, Harvard Graduate School of Design
    - 2010-2013, Invited Lecturer, Pace University Law School
    - 2014-2015, Adjunct Professor, Pace University Law School

Attachment 3. Data Usability Sub-Report for SDG #480-179177

Detailed Quality Review

Field Notes Review

	Y	N	NA	COMMENTS
Sampling notes	☒	☐	☐	
Field meteorological data	☐	☐	☒	No review required under QAPP
Associated sampling location and plan included	☐	☒	☐	See RAP/QAPP
Associated drilling logs available, reviewed	☐	☐	☒	No review required under QAPP
Identification of QC samples in notes	☒	☐	☐	Sample IDs
Sampling instrument decontamination records	☐	☐	☒	No review required under QAPP
Sampling instrument calibration logs	☐	☐	☒	No review required under QAPP
Chain of custody included	☒	☐	☐	With analytical report
Notes include communication logs	☐	☒	☐	
Any corrective action (CA) reports	☐	☒	☐	If so, CA documentation of results required.
Any deviation from methods noted? If so, explain	☐	☒	☐	None
Any electronic data deliverables	☐	☒	☐	None
Sampling Report (by Field Team Leader)	☒	☐	☐	Field Notes

Lab Report Contents (Test America SDG Reports: #480-179177)

☒ SDG Narrative
☒ Contract Lab Sample Information Sheets
☒ Data Package Summary Forms
☒ Chain-of-Custody (COC) Forms
☒ Test Results (no tentatively identified compounds [TICs])
☒ Calibration standards
☒ Surrogate recoveries
☒ Blank results
☒ Spike recoveries
☒ Duplicate results
☒ Confirmation (lab check/QC) samples
☒ Internal standard area & retention time summary
☒ Chromatograms
☒ Raw data files
☒ Other specific information

Is the data package complete as defined under the requirements for the NYSDEC ASP Category B?		
Laboratory Report	**Complete (Y/N)**	**Comments**
480-179177	Y	No

Sample Preservation Requirements & Holding Times Met?			
Laboratory Report	**Hold Times (Y/N)**	**Preservation (Y/N)**	**Exception Comment**
480-179177	Y	Y	None

Do the QC data fall within the protocol required limits and specifications?
(1) blanks, (2) instrument tunings, (3) calibration standards, (4) calibration verifications, (5) surrogate recoveries/ISD, (6) spike recoveries, (7) replicate analyses, (8) laboratory controls, (9) and sample data

SDG	1	2	3	4	5	6	7	8	9
480-179177	☐	☐	☒	☐	☐	☐	☒	☐	☒

The narrative section, below, discusses these deficiencies in detail, see Attachment 1 as well.

Were the data generated using established and agreed upon analytical protocols?		
Laboratory Report	**Protocols (Y/N)**	**Exception Comment**
480-179177	Y	No

Do the raw data confirm the results provided in the data summary sheets and quality control verification forms?		
Laboratory Report	**Confirmation (Y/N)**	**Exception Comment**
480-179177	Y	No

Were the correct data qualifiers used and consistent with the most current guidance?		
Laboratory Report	**Qualifiers (Y/N)**	**Comment**
480-179177	Y	The laboratory generally applied appropriate qualifiers.

Were any quality control (QC) exceedances specifically noted in this DUSR and the corresponding QC summary sheets from the data packages referenced?		
Laboratory Report	**QC Exceedances Documented (Y/N)**	**Comment**
480-179177	Y	Data qualifications were applied as described below

Data Quality and Usability Narrative

Field Notes Inspection

The groundwater samples came from a collection event on December 9, 2020. RemVēr reviewed the field notes as part of this DUSR.

Laboratory Report Inspection

E/TA produced an SDG report #480-179177 (dated 22-Dec-20). The SDG report had the required data and information.

Chain of Custody (COC) Evaluation

NYSDEC/GES produced a COC for the referenced fieldwork: SDG: #480-179177—single, two-page COC; the laboratory noted no issues at the time of sample acceptance.

Sample Preservation & Holding Time Evaluation

Laboratory received a cooler with samples on 12/9/2020 @ 15:30 PM (designated as SDG-#480-179177). The temperature of the cooler at receipt was 1.7ºC. The samples arrived in good condition, properly preserved, and where necessary under ice. Field staff and laboratory met the holding times and preservation requirements.

Sample Preparation & Analysis

Sample preparation for organic and inorganic analyses were within acceptable parameters with no exceptions. Additionally, the laboratory reported no analytical issues other than the QC issues noted below.

Detection Limits

Analytical detection limits (DLs) were acceptable for all analytes causing no QA issues other than those noted below:

- If an analyte was below the method detection limit (MDL), then a “U” flag was set to indicate non-detection (undetected).
- If an analyte (or Tentatively Identified Compounds [TICs]) was above the method detection limit (MDL) but below the reporting limit (RL), then then a “UJ” flag was set to indicate a

qualified non-detection; however, if the analyte (or TIC) was detected then it was flagged with a B and J to indicate estimated result due to the blank.

Calibration Standards and Continuing Calibration Verification (CCV)

Calibration standards (external or internal) were acceptable for all methods and analytes. CCVs were acceptable in the SDG for all methods and analytes with no exceptions.

The interference Check Standard (ICS), however, had Barium at a concentration greater than twice the Limit of Detection (LOD) with high bias. The laboratory opined that the ICS solution likely had trace impurities of Barium and that the results were unlikely due to matrix interference. Nevertheless, the laboratory set a qualifier (^6+). RemVēr flagged the results in Samples #–1, 2, 3 [MS/MSD], 4, 5, 6, 7, 8, 9, 10, 11, & 12 as UJ+ or J+ as appropriate.

Blank Evaluation

SDG #480-179177 had Method Blanks (MBs) for each method, which were acceptable (no detectable analytic results greater than the RL), except for:

- *Method 6010*—Zinc was detected above the MDL but below the RL. If the element was not detected, then it received a UJ flag; if it was detected then the result received a J B flag.

Laboratory Control Samples (LCS)

The various method LCS' (LCS & LCS duplicates [LCSD]) were within acceptable control ranges and relative percent differences (RPDs) for their particular analyses in SDG 480-179177.

Surrogates and Isotope Dilution

Surrogates added to a sample allow testing of preparatory and instrument behavior resulting in recoveries within appropriate method ranges for the analytes. Surrogates behaved in this SDG within acceptable performance criteria. Isotope Dilution Analytes (IDA) also performed within acceptable performance criteria.

Site-Specific Matrix Spikes and Matrix Spike Duplicates

The matrix spike/matrix spike duplicate (MS/MSD) runs for all analyses met the QA criteria in SDG 480-179177 with the following exception:

- *Method 6010*—Calcium, Chromium, Magnesium, and Sodium were present in the original sample at 4-times greater than the matrix spike concentration; therefore, control limits are not applicable. No qualifier flag set.

Duplicates

The analytical Method Duplicates met their RPD performance criteria. GES submitted one field replicate sample:

- #–4 (Dup-120920) was a replicate of #–3 (TW-7)— the laboratory performed analysis for VOCs, metals, Hexavalent Chromium, and Mercury. All analytes met the RPD performance criteria of <20% except for Aluminum, Iron, and Zinc.

RemVēr flagged (UJ or J) those analytes (Aluminum, Iron, and Zinc) beyond performance criteria only in the replicate sample pair.

Tentatively Identified Compounds (TICs)

This SDG had analysis of TICs; no samples had detections.

Sample Result and Usability Evaluation

Due to certain sample issues or laboratory performance, some results were qualified; however, the data are usable. No data received an R (rejected) flag.

DQA Detail Worksheet for SDG #480-179177

BLANKS	>RL?	Compounds	Notes
VOC (8260)	No	None	No Comment
Metals (6010)	No	None	No Comment
Mercury (7470)	No	None	No Comment
Hex. Chrome (7196)	No	None	No Comment

LCS	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment
Metals (6010)	—	—	—	—	No Comment
Mercury (7470)	—	—	—	—	No Comment
Hex. Chrome (7196)	—	—	—	—	No Comment

SURROGATES	SV <10%	> 10% & < LCL	>UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment

MS/MSDs	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	QC Source	RPDs	Notes
VOC (8260)	—	—	—	#-3	—	No Comment
Metals (6010)	—	—	—	#-3	—	No Comment
Mercury (7470)	—	—	—	#-3	—	No Comment
Hex. Chrome (7196)	—	—	—	#-3	—	No Comment

FIELD DUPLICATES RPDs	QC Source	Soil RPD > 50%	Water RPD > 20%	Compounds	Notes
#-4 Dup-120920	#-3 TW-7	N/A	X	Al, Fe, & Zn	No Flag
—	—	—	—	—	Flag UJ / J
LAB DUPLICATES					
All Methods	Batch	N/A	—	As listed	No Comment

Reasonable Confidence Achieved ☐ Y ☐ N—Not Applicable
Significant QC Variances Noted ☒ Y ☐ N Requested Reporting Limits Achieved ☒ Y ☐ N
Preservation Requirements Met ☒ Y ☐ N Holding Time Requirements Met ☒ Y ☐ N

Abbreviations:
RL = Reporting Limit LCS = Laboratory Control Sample SV = Significant QC Variance
RPD = Relative Percent Difference LCL= RCP Lower Control Limit UCL= RCP Upper Control Limit
VOCs = Volatile Organic Compounds SVOCs = Semi-volatile Organic Compounds Pest = Pesticides
EPH = Extractable Petroleum Hydrocarbons VPH = Volatile Petroleum Hydrocarbons ETPH = EPH-Total
PCBs = Polychlorinated Biphenyls N/A = Not Applicable N/C = Not Collected -- = nothing to report
Notes: * Typical lab contaminants, not site-related

DQA Non-Conformance Summary Worksheet for SDG #480-179177

Only Flagged Results Shown Below

Sample Number(s)	Compound(s)	QC Non-Conformance	% Recovery	% RPD †	High or Low Bias ‡	Comments
ALL	All	If Non-detect				Flag U
	All	MDL>result<RDL	—	—	—	Validator Flag UJ Interpreted Flag U
	1,4-Dioxane (TJN)* Zinc	In Method Blank	If result <RDL If result >RDL			Flag UJ Flag J B
#-1 – 12	Barium	ISD	—	—	X	Flag UJ+ / J+
#-4 replicate of #-3	Al, Fe, & Zn	Duplicate Field Precision	>UCL	—	—	Flag UJ or J

Notes: † RPD—Relative Percent Difference

‡ Bias High—Reported result may be lower, Reporting Limit (RL) is acceptable as reported. Bias Low—Reported results may be higher, RL may be higher than reported.

Attachment 4. Data Usability Sub-Report for SDG #480-179239

Detailed Quality Review

Field Notes Review

	Y	N	NA	COMMENTS
Sampling notes	☒	☐	☐	
Field meteorological data	☐	☐	☒	No review required under QAPP
Associated sampling location and plan included	☐	☒	☐	See RAP/QAPP
Associated drilling logs available, reviewed	☐	☐	☒	No review required under QAPP
Identification of QC samples in notes	☒	☐	☐	Sample IDs
Sampling instrument decontamination records	☐	☐	☒	No review required under QAPP
Sampling instrument calibration logs	☐	☐	☒	No review required under QAPP
Chain of custody included	☒	☐	☐	With analytical report
Notes include communication logs	☐	☒	☐	
Any corrective action (CA) reports	☐	☒	☐	If so, CA documentation of results required.
Any deviation from methods noted? If so, explain	☐	☒	☐	None
Any electronic data deliverables	☐	☒	☐	None
Sampling Report (by Field Team Leader)	☒	☐	☐	Field Notes

Lab Report Contents (Test America SDG Reports: #480-179239)

☒ SDG Narrative
☒ Contract Lab Sample Information Sheets
☒ Data Package Summary Forms
☒ Chain-of-Custody (COC) Forms
☒ Test Results (no tentatively identified compounds [TICs])
☒ Calibration standards
☒ Surrogate recoveries
☒ Blank results
☒ Spike recoveries
☒ Duplicate results
☒ Confirmation (lab check/QC) samples
☒ Internal standard area & retention time summary
☒ Chromatograms
☒ Raw data files
☒ Other specific information

Is the data package complete as defined under the requirements for the NYSDEC ASP Category B?		
Laboratory Report	**Complete (Y/N)**	**Comments**
480-179239	Y	No

Sample Preservation Requirements & Holding Times Met?			
Laboratory Report	**Hold Times (Y/N)**	**Preservation (Y/N)**	**Exception Comment**
480-179239	Y	Y	None

Do the QC data fall within the protocol required limits and specifications?
(1) blanks, (2) instrument tunings, (3) calibration standards, (4) calibration verifications, (5) surrogate recoveries/ISD, (6) spike recoveries, (7) replicate analyses, (8) laboratory controls, (9) and sample data

SDG	1	2	3	4	5	6	7	8	9
480-179239	☐	☐	☒	☒	☐	☒	☐	☐	☒

The narrative section, below, discusses these deficiencies in detail, see Attachment 1 as well.

Were the data generated using established and agreed upon analytical protocols?		
Laboratory Report	**Protocols (Y/N)**	**Exception Comment**
480-179239	Y	No

Do the raw data confirm the results provided in the data summary sheets and quality control verification forms?		
Laboratory Report	**Confirmation (Y/N)**	**Exception Comment**
480-179239	Y	No

Were correct data qualifiers used and are they consistent with the most current guidance?		
Laboratory Report	**Qualifiers (Y/N)**	**Comment**
480-179239	Y	The laboratory generally applied appropriate qualifiers.

Were quality control (QC) exceedances specifically noted in this DUSR and the corresponding QC summary sheets from the data packages referenced?		
Laboratory Report	**QC Exceedances Documented (Y/N)**	**Comment**
480-179239	Y	Data qualifications applied as described below

Data Quality and Usability Narrative

Field Notes Inspection

The groundwater samples came from a collection event December 10, 2020. RemVēr reviewed the field notes as part of this DUSR.

Laboratory Report Inspection

E/TA produced an SDG report #480-179239 (dated 22-Dec-20). The SDG report had the required data and information.

Chain of Custody (COC) Evaluation

NYSDEC/GES produced a COC for the referenced fieldwork: SDG: #480-179239—single, two-page COC. The laboratory noted one issue at the time of acceptance: while the COC indicated that a Trip Blank sample was submitted, the laboratory did not receive this blank.

Sample Preservation & Holding Time Evaluation

Laboratory received a cooler with samples on 12/10/2020 @ 14:00 PM (designated as SDG-#480-179239). The temperature of the cooler(s) at receipt was 3.4ºC. The samples arrived in good condition, properly preserved, and where necessary under ice. Holding times and preservation requirements were met.

Sample Preparation & Analyses

Sample preparation for organic and inorganic analyses were within acceptable parameters with no exceptions. Additionally, the laboratory reported no analytical issues other than the QC issues noted below.

Detection Limits

Analytical detection limits (DLs) were acceptable for all analytes causing no QA issues other than those noted below:

- If an analyte was below the method detection limit (MDL), then a “U” flag was set to indicate non-detection (undetected).

- If an analyte (or Tentatively Identified Compounds [TICs]) was above the method detection limit (MDL) but below the reporting limit (RL), then then a "UJ" flag was set to indicate a qualified non-detection; however, if the analyte (or TIC) was detected then it was flagged with a B and J to indicate estimated result due to the blank.
- If an analyte was above the RL and beyond the upper limit for an analyte the laboratory set an "E" flag. RemVēr set a "JE" flag to indicate an estimated detection.
- *Method(s) 8260C:* The results for the following samples received a "D" flag to indicate sample dilution.
    - Sample #-4 required dilution due to foaming while purging original sample resulting in the use of elevated RLs.
    - Samples #- 5, -9, and -11 [including #-11 MS/MSD] required dilution to bring target analytes within the calibration range resulting in the use of elevated RLs.

Calibration Standards and Continuing Calibration Verification (CCV)

Calibration standards (external or internal) were acceptable for all analytes. CCVs were acceptable in the SDG for all methods and analytes, with the following exceptions for Method 8260:

- *Method 8260C*—Batch 562933 recoveries were above the upper control limit (>UCL) for Carbon Disulfide, Cyclohexane, Styrene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Ethylbenzene, and total Xylenes, although the samples (#-1 – #-5, and #-7 – #-11) were non-detect for the analyte. RemVēr flagged the results as UJ.
- *Method 8260C*—Batch 563006 recoveries were above the >UCL for Styrene, although the Sample #-6 was non-detect for the analyte. RemVēr flagged the results as UJ.
- *Method 8260C*—Batch 563006 recoveries were below the lower control limit (<LCL) for Vinyl Chloride and Chloromethane, while the standard demonstrated acceptable behavior. Sample #-6 did not have detectable concentrations of these analytes. RemVēr flagged these results as UJ-.

The interference Check Standard (ICS), however, had Barium at a concentration greater than twice the Limit of Detection (LOD) with high bias. The laboratory opined that the ICS solution likely had trace impurities of Barium and that the results were unlikely due to matrix interference. Nevertheless, the laboratory set a qualifier (^6+). RemVēr flagged the results in Samples #–1, 2, 3 [MS/MSD], 4, 5, 6, 7, 8, 9, 10, and 11 as UJ+ or J+ as appropriate.

Blank Evaluation

SDG #480-179239 had Method Blanks (MBs) for each method, which were acceptable (no detectable analytic results greater than the RL), except for:

- *Method 6010*—Zinc was detected above the MDL but below the RL. If the element was not detected, then it received a UJ flag; if it was detected then the result received a J B flag.

This sample group did not have a Trip Blank to provide field control for VOC analysis.

Laboratory Control Samples (LCS)

The various method LCS' (LCS & LCS duplicates [LCSD]) were within the acceptable control ranges and relative percent differences (RPDs) for their particular analyses in SDG 480-179239, with no exceptions.

Surrogates and Isotope Dilution

Surrogates added to a sample allow testing of preparatory and instrument behavior resulting in recoveries within appropriate method ranges for the analytes. Surrogates behaved in this SDG within acceptable performance criteria. Isotope Dilution Analysis (IDA) was unnecessary.

Site-Specific Matrix Spikes and Matrix Spike Duplicates

The matrix spike/matrix spike duplicate (MS/MSD) runs for all analyses met the QA criteria in SDG 480-179239 with the following exceptions:

- *Method 8260*—the MS/MSD run (Batch 562933) were beyond control limits for an analyte. Analyte recoveries >UCL with high bias included: cis-1,2-Dichloroethene, Styrene, & Trichloroethene (TCE). RemVēr flagged these analytes UJ+ or J+ as appropriate.
- *Method 8260*—the MS/MSD run (Batch 562933) had poor precision (RPD >criteria) for an analyte Bromomethane. RemVēr flagged these analytes UJ or J as appropriate.
- *Method 8260C*—While the LCS associated with Analytical Batch 562933 met acceptance criteria, the MS/MSD for could not be evaluated for accuracy and precision. It appears that the poor MS/MSD performance was due to the high concentration of TCE. RemVer flagged (UJ or J as appropriate) the results for this analyte in all samples.

Duplicates

The analytical Method Duplicates met their RPD performance criteria. GES submitted a no field replicate sample set with this sample group.

Tentatively Identified Compounds (TICs)

This SDG had analysis of TICs, where one sample had detections:

- Samples #-6 had detections of four tentatively identifiable compounds (Propane, 2-Methyl-Butane, Pentane, & 1-Pentene). RemVēr flagged these results as "T", "J", and "N" as they were tentative, estimated detections with presumptive identifiable evidence.
- Sample #-6 had detections of three unknowns. RemVēr flagged these results as "T" and "J" as they were tentative, estimated detections.

Sample Result and Usability Evaluation

Due to sampling issues or laboratory performance, RemVēr qualified certain results; however, the data are usable. No data received an R (rejected) flag.

DQA Detail Worksheet for SDG #480-179239

BLANKS	>RL?	Compounds	Notes
VOC (8260)	No	All	No Comment
Metals (6010)	No	All	No Comment
Mercury (7470)	No	Mercury	No Comment

LCS	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	Compound(s)	Notes
VOC (8260)	—	—	—	All	No Comment
Metals (6010)	—	—	—	All	No Comment
Mercury (7470)	—	—	—	Mercury	No Comment

SURROGATES / IDA	SV <10%	> 10% & < LCL	>UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment
Metals (6010)	—	—	—	—	No Comment
Mercury (7470)	—	—	—	—	No Comment

MS/MSDs	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	QC Source	RPDs	Notes
VOC (8260)	—	—	—	#-11	—	No Comment
cis-1,2-Dichloroethene, Styrene, & TCE	—	—	X	#-11	—	Flag UJ+ or J+
Bromomethane	—	—	—	#-11	>UCL	Flag UJ or J
Trichloroethene	E			#-11	—	Flag UJ or J
Metals (6010)	—	—	—	Batch	—	No Comment
Mercury (7470)	—	—	—	Batch	—	No Comment

FIELD DUPLICATES RPDs	QC Source	Soil RPD > 50%	Water RPD > 20%	Compounds	Notes
—	—	N/A	—	—	—
		N/A	—	—	
LAB DUPLICATES					
All Methods	Batch	N/A	—	As listed	None

Reasonable Confidence Achieved ☐ Y ☐ N—Not Applicable
Significant QC Variances Noted ☒ Y ☐ N
Requested Reporting Limits Achieved ☒ Y ☐ N
Preservation Requirements Met ☒ Y ☐ N
Holding Time Requirements Met ☒ Y ☐ N

Abbreviations:
RL = Reporting Limit LCS = Laboratory Control Sample SV = Significant QC Variance
RPD = Relative Percent Difference LCL= RCP Lower Control Limit UCL= RCP Upper Control Limit
VOCs = Volatile Organic Compounds SVOCs = Semi-volatile Organic Compounds Pest = Pesticides
EPH = Extractable Petroleum Hydrocarbons VPH = Volatile Petroleum Hydrocarbons ETPH = EPH-Total
PCBs = Polychlorinated Biphenyls N/A = Not Applicable N/C = Not Collected -- = nothing to report
Notes: * Typical lab contaminants, not site-related

DQA Non-Conformance Summary Worksheet for SDG #480-179239

Only Flagged Results Shown Below

Sample Number(s)	Compound(s)	QC Non-Conformance	% Recovery	% RPD †	High or Low Bias ‡	Comments
All	Any	Analyte Not Detected				Flag U
	Any	MDL > result < RDL	—	—	—	Validator Flag UJ Interpreted Flag U
	Any	Beyond Calib. ("E")	—	—	—	Flag J E
	Isobutyl Alcohol & 1,4-Dioxane (TICs) Zinc	In Method Blanks	If result <RDL If result >RDL			Flag UJ Flag J B
	cis-1,2-Dichloroethene, Styrene, & TCE	MS/MSD	>UCL	—	High	Flag UJ+ or J+
	Bromomethane	MS/MSD	—	>UCL	—	Flag UJ or J
	Trichloroethene (TCE)	MS/MSD	E			Flag UJ or J
#-4, 5, 9, & 11	All VOCs	Calibration (Dilu.)	—	—	—	Flag D
#-1 - #-11	Barium	ISD	—	—	X	Flag UJ+ / J+
#-1 – #-5, & #-7 – #-11	Carbon Disulfide, Cyclohexane, Styrene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Ethylbenzene, & Xylenes	CCV	>UCL	—	—	Flag UJ / J
#-6	Styrene	CCV	>UCL	—	—	Flag UJ / J
	Vinyl Chloride & Chloromethane.	CCV	<LCL	—	Low	Flag UJ- or J-
#-6	Three Unknowns	TIC				Flag TJ
	Propane, 2-Methyl-Butane, Pentane, & 1-Pentene	TIC				Flag TJN

Notes: † RPD—Relative Percent Difference

‡ Bias High—Reported result may be lower, Reporting Limit (RL) is acceptable as reported. Bias Low—Reported results may be higher, RL may be higher than reported.