TETRA TECH

Former Lockheed Martin French Road Facility
Utica, New York
Solvent Dock Site
(NYSDEC Site ID #633036A)

Data Summary and Observations
First Quarter Post-Shutdown Groundwater Monitoring

General Notes

- As part of the groundwater collection and treatment system (GCTS) optimization investigation activities, installation of two test pits and eight new piezometers in the north storm sewer area near the buried perforated piping for the GCTS was performed during the week of May 17, 2021. The GCTS was shut down on May 26, 2021. The approximate locations of the test pits and the new piezometers are shown on Figure D-1.

- First quarter post-shutdown groundwater samples were collected from the existing monitoring wells and piezometers previously sampled in the May 2021 pre-shutdown groundwater sampling event, and the new piezometers were sampled for volatile organic compounds (VOCs). The monitoring well network and new piezometers are shown on Figure D-1. This first quarter post-shutdown groundwater monitoring event was performed in August 2021 using standard monitoring locations, procedures, and analytical parameters.

- The groundwater gauging and sampling of the existing monitoring wells and piezometers was performed from August 10, 2021 to August 13, 2021. Of the existing 61 wells subject to water level gauging, fourteen wells were sampled and analyzed for Volatile Organic Compounds (VOCs), and one of the wells (PZ-21) was reported as dry. The attached Tables 4-1 and 4-2 summarize gauging data and VOC analytical results, respectively. Note that analytical data qualifiers have been included in Table 4-2 according to results of the attached Data Usability Summary Report (DUSR). Based on the results of data validation and as summarized in the attached DUSR, the analytical data are usable.

- On August 10, 2021, prior to purging and taking field parameter measurements, extra 40 milliliter (mL) sample vials of well water were collected from PZ-5 and PZ-6 in case the wells did not recharge after purging. The water levels were checked on August 13, 2021 at PZ-5 and PZ-6. There was sufficient recharge in PZ-5 and PZ-6 to collect additional samples that were submitted for analysis.

- The eight new piezometers installed during the test pitting activities, TP1-PZ-1, TP1-PZ-2, TP1-PZ-3, TP1-PZ-4, TP2-PZ-1, TP2-PZ-2, TP2-PZ-3, and TP2-PZ-4 were sampled and analyzed for VOCs on August 12, 2021. The attached Table 4-3 summarizes the VOC analytical results for the new piezometers.

- During the operation of the GCTS, treated groundwater was discharged via gravity to the local municipal storm drain under a NYSDEC State Pollutant Discharge Elimination System (SPDES) permit (permit No. NY 0121894). The three existing catch basins CB-1, CB-2 and CB-3 were monitored by collecting stormwater samples for the presence of VOCs. The locations of the catch basins are shown on Figure D-1A. The three existing catch basins were sampled and analyzed for VOCs on August 10, 2021. The attached Table 4-4 summarizes the VOC analytical results for the existing catch basins.

Contaminant of Concern (COC) Observations

- Chlorinated volatile organic compounds (CVOCs) are the predominant contaminants of concern (COCs). Certain CVOCs continue to be detected in some wells at concentrations greater than NYSDEC Technical Operational Guidance Series (TOGS) 1.1.1: *Ambient Water Quality Standards and Guidance Values* (SGVs). If a monitoring well sampling location has met the SGVs for four consecutive sampling rounds, the removal of the monitoring well from the groundwater sampling program will be requested from the NYSDEC. The ranges of detected COC levels were generally similar to those observed in previous sampling events. Analytical results are summarized on Table 4-2 and depicted graphically for the August 2021 sampling event on Figure D-2A.

- The predominant constituents detected at concentrations greater than the SGVs continue to be PCE, TCE, cis-1,2-DCE, and VC.

- A Mann-Kendall trend analysis was performed using data from the August 2021 sampling event and the ten previous rounds of sampling (see Table 4-5 and Figures 4-3a through 4-3n) except for MW-18, A2-PZ-1 and A2-PZ-2 which used the previous three rounds of sampling. MW-18, A2-PZ-1 and A2-PZ-2 were abandoned in October 2017 in preparation for the soil removal activities in the Former Northern Perimeter Ditch (FNPD) area. These wells were re-installed in November 2019 following the soil removal activities and have been sampled in the last three sampling rounds. Per Table 4-5, statistically-significant decreasing trends were identified for PCE and TCE at PZ-6, PCE at MW-3, cis-1,2-DCE and TCE at MW-18, (Objective 1 locations); VC at MW-2, cis-1,2-DEC and VC at MW-4 (Objective 3 location). In addition, as per Table 4-5, a statistically-significant increasing trend was identified for VC at MW-20 (Objective 1 location).
- Statistical analysis of August 2021 volatile organic compound data identified sudden increases or historical maxima for cis-1,2-DCE and TCE at A2-PZ-2 (Objective 1 location) as shown on Table 4-5. This is based on three sampling rounds following the soil removal activities in the FNPD in the fall of 2019 when the wells were re-installed.

Objective 1 Wells

- No SGV exceedances were observed in PZ-13R.
- Piezometer A2-PZ-1 had SGV exceedances of TCE, cis-1,2-DCE, VC, 1,1-DCA, and Freon 12 and Freon 113. Piezometer A2-PZ-2 had SGV exceedances of PCE, TCE, cis-1,2-DCE, and VC. The results for these wells continue to be significantly lower than the VOC levels observed throughout the previous sampling years. However, there appears to be a steady increase since re-installation likely attributable to impacted groundwater re-infiltrating into the area of the FNPD excavation activities completed in the fall of 2019.
- MW-18 has SGV exceedances of PCE, TCE, cis-1,2-DCE, and 1,1-DCA. The results for this well are consistent with the VOC levels observed throughout the previous sampling years.
- MW-1 and PZ-5 have consistently exhibited SGV exceedances of PCE, TCE, and cis-1,2-DCE; the concentrations reported for this annual sampling event are generally consistent with results of the previous sampling events for these wells. During this sampling event, PZ-6 exhibited SGV exceedances of cis-1,2-DCE; the PCE concentration was below the respective SGV.
- MW-3 continues to exhibit exceedances of cis-1,2-DCE; the PCE and TCE concentrations are below their respective SGVs; the VC concentration has been fluctuating above and below its SGV since 2013 and did exceed the SGV during this sampling event.
- MW-20 continues to exhibit fluctuating VC concentrations above and below the SGV,

consistent with results collected since 2012, but exceeded its SGV during this sampling event.

- PZ-8 had previously not been analyzed for VOCs due to insufficient groundwater recovery during sampling and was last sampled in January 2017. During this August 2021 sampling event, there was sufficient recharge for collection of VOC samples. PZ-8 has SGV exceedances of cis-1,2-DCE, PCE, TCE, and VC.

Objective 2 Wells

- Monitoring well MW-21 was the only Objective 2 well sampled for VOCs in August 2021. There was a SGV exceedance for VC observed in MW-21.

Objective 3 Wells

- Two of the three Objective 3 wells sampled exhibited SGV exceedances for cis-1,2-DCE and VC (MW-2 and MW-10).
- The exceedance concentrations in MW-2 and MW-10 are similar to concentrations reported for these locations during previous annual sampling events.
- No SGV exceedances were observed in MW-4.

Objective 4 Wells

- No Objective 4 wells were sampled in the August 2021 event.

New Piezometers

- No SGV exceedances were observed in TP1-PZ-1, TP1-PZ-2, TP2-PZ-1, TP2-PZ-2, TP2-PZ-3, and TP2-PZ-4.
- Piezometer TP1-PZ-3 had SGV exceedances of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, 1,1-DCA, 1,1-DCE, Freon 12 and Freon 113. Piezometer TP1-PZ-4 had SGV exceedances of TCE, 1,1-DCA, cis-1,2-DCE and VC.

Existing Catch Basins

The detected VOCs in catch basins CB-1 and CB-3 were below the SPDES effluent standards as per the SPDES permit. The VOCs were non-detect in CB-2. Based on the storm sewer piping (see attached Figure D-1A), the piping from CB-1 and CB-3 flow to CB-2 suggesting that VOCs are not discharging from the site. Historically, there have been a few instances of VOC detections in the catch basins during operation of the GCTS. It is recommended that the catch basins continue to be monitored during the shutdown of the GCTS to evaluate if VOC detections continue to occur and at what concentration.

Geochemical Observations

Geochemical analyses during the August 2021 sampling event included pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Field parameters were collected at the monitoring wells by bailing and measurement at the surface. Downhole DO and ORP were measured at all locations where there was sufficient recharge. PZ-8 did not have sufficient volume to collect field parameters. The attached Table 4-6 summarizes the measured field parameters for all existing wells sampled during the August 2021 sampling event. Due to insufficient recharge and volume, field parameters were not collected from the new piezometers. The following observations are made relative to these data:

- Measured pH levels in groundwater site-wide ranged from 6.76 to 7.54 SU; indicating conditions are generally neutral.
- DO values ranged from 0.34 to 9.14 milligrams per liter (mg/L). This range of values is consistent with previous sampling events and is within the historical range observed for

each of the sampled wells. These data indicate that groundwater varies from oxygen rich to oxygen deprived depending on location.

- ORP values ranged from -75.7 to 91.2 millivolts (mV); ORP was positive in four of the fourteen wells sampled for ORP. The ORP values are within the historical range observed for each of the sampled wells.

Groundwater Elevation Measurements

Groundwater elevations in monitoring wells that were measured in the Solvent Dock Area were relatively higher than the historical measurements at the site (Table 4-1). In general, the groundwater elevations indicate a higher water table when compared to the May 2021 event. The following location was reported as dry: PZ-21. PZ-21 has been dry since April 2015.

The significant increase in the groundwater elevations are near and within the former northern perimeter ditch area. As shown on the attached groundwater contour plan (Figure D-3A) groundwater flow direction is indicated to be to the east to southeast. The groundwater elevations have increased following the shutdown of the GCTS near MH-1 specifically on the south side of the storm sewer and the perforated pipe draining to MH-1. The detected VOCs in catch basins CB-1 and CB-3 (below the SPDES effluent standards) indicate that a limited amount of groundwater with VOC contamination is migrating into the storm sewer but are not discharging from the site as the piping from CB-1 and CB-3 flow to CB-2 which was non-detect. During the past operation of the GCTS, there have been a few instances that VOCs were detected in the catch basins. Continued monitoring will determine if this volume and concentration is significant and could potentially lead to a re-start of the GCTS. This is likely a result of the shutdown of the GCTS indicating the perforated pipe was capturing the groundwater during the operation of the GCTS. Note that bedrock wells, and the injection well are not used in the development of the contour plan.

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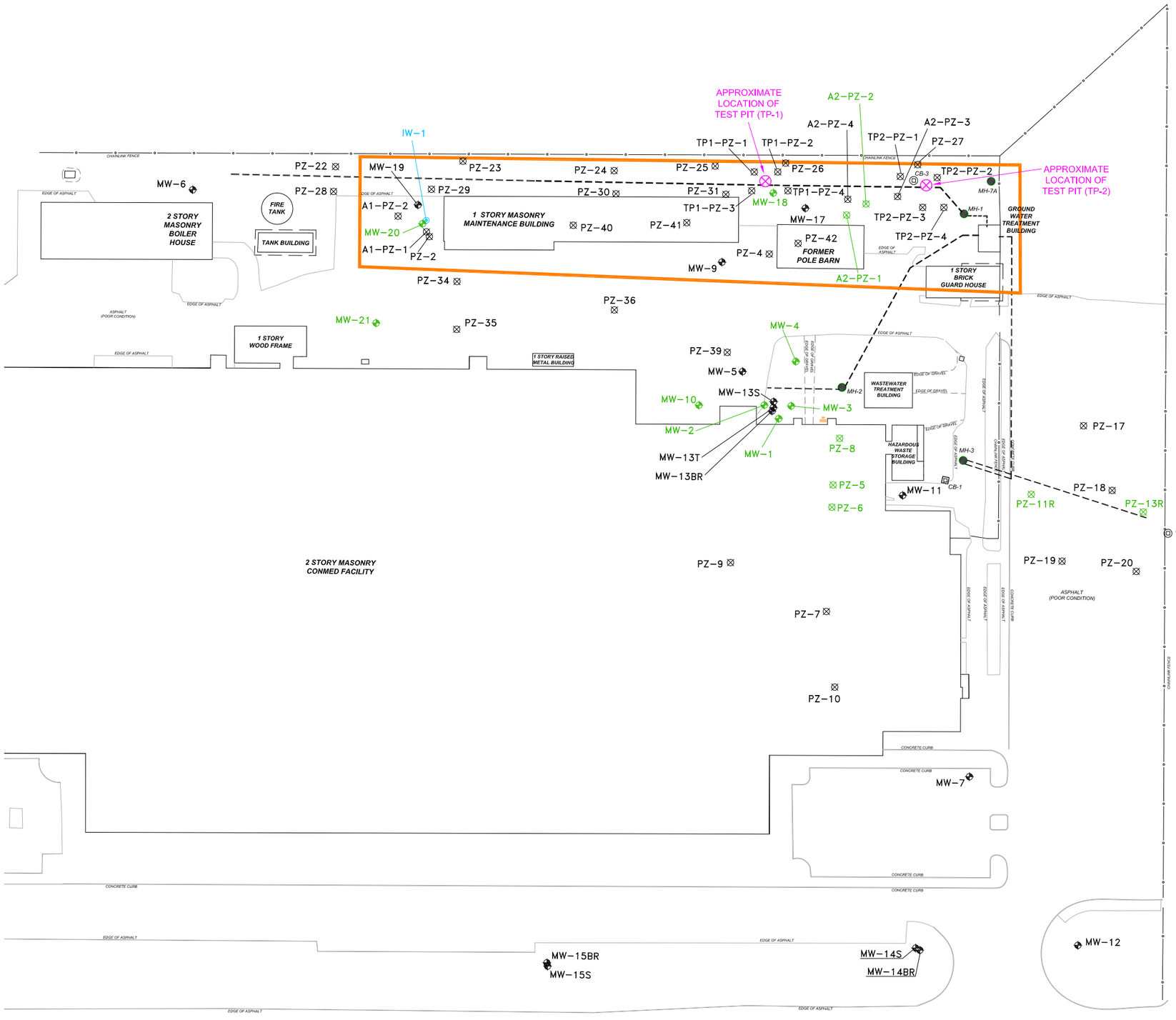
FIGURES



LEGEND:

🟧	FORMER NORTHERN PERIMETER DITCH (FNPD)
IW-1 ◉	INJECTION WELL LOCATION
MW-10 ⊕	MONITORING WELL LOCATION
PZ-9 ⊠	PIEZOMETER LOCATION
🟩	ANNUAL SAMPLING LOCATION
= = = = = =	GROUNDWATER COLLECTION TRENCH AND PIPING
——∘——	FENCE LINE
MH-2 ●	GROUNDWATER COLLECTION MANHOLE LOCATION
CB-2 ◎ ▣	CATCH BASIN WITH INLET GRATE LOCATION

NOTES:

1. BASE PLAN ADAPTED FROM DRAWING ENTITLED 2013 ANNUAL GROUNDWATER MONITORING REPORT, JANUARY 2013 GROUNDWATER CONTOURS? PREPARED BY ACRCADIS.
2. THIS DRAWING IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM (CENTRAL ZONE).
3. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
4. IN THE FALL OF 2019, THE FORMER NORTHERN PERIMETER DITCH (FNPD) EXCAVATION ACTIVITIES WERE COMPLETED. FOLLOWING COMPLETION OF THE EXCAVATION ACTIVITIES, MONITORING WELLS MW-17 AND MW-18, AND PIEZOMETERS A2-PZ-1, A2-PZ-2, A2-PZ-3, AND A2-PZ-4 WERE RE-INSTALLED.
5. NEW PIEZOMETERS, TP1-PZ-1, TP1-PZ-2, TP1-PZ-3, TP1-PZ-4, TP2-PZ-1, TP2-PZ-2, TP2-PZ-3, TP2-PZ-4 WERE INSTALLED IN MAY 2021 AS PART OF THE GCTS OPTIMIZATION INVESTIGATION.
6. THE TEST PITS WERE EXCAVATED TO EVALUATE THE PRESENCE OF BEDDING MATERIAL AROUND THE EXISTING STORMSEWER PIPE. NO BEDDING MATERIAL WAS PRESENT IN BOTH TEST PITS.

0 50 100
SCALE IN FEET

POST-SHUTDOWN GROUNDWATER MONITORING

FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

MONITORING WELL NETWORK

TETRA TECH

CHECKED	MRN	FIGURE:
DRAFTED	CMP	D-1
PROJECT	117-0507758	
DATE	08/15/21	

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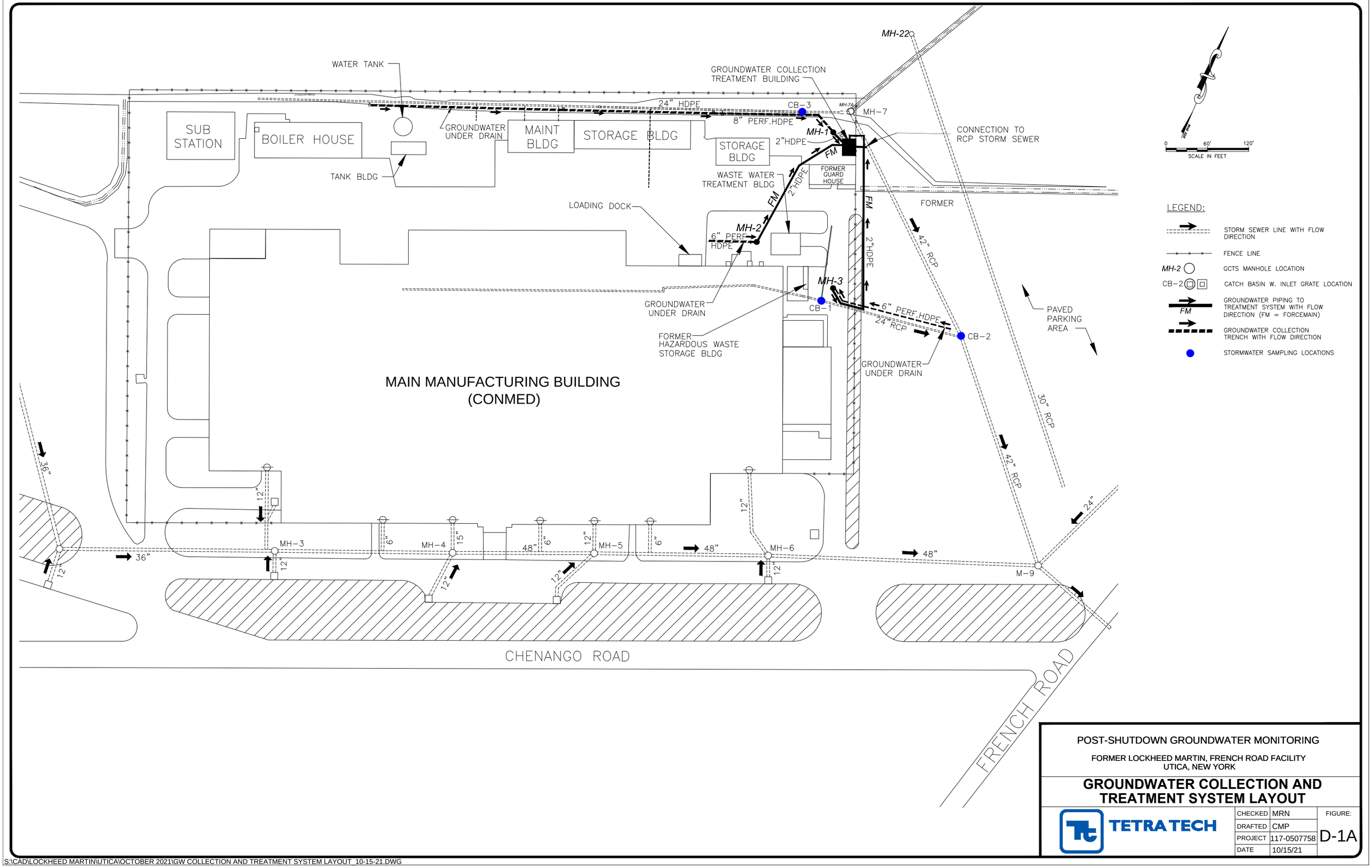


POST-SHUTDOWN GROUNDWATER MONITORING

FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER COLLECTION AND TREATMENT SYSTEM LAYOUT

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-0507758
DATE	10/15/21

FIGURE: D-1A

S:\CAD\LOCKHEED MARTIN\UTICA\OCTOBER 2021\GW COLLECTION AND TREATMENT SYSTEM LAYOUT_10-15-21.DWG

MW-18	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	3.6
1,1-Dichloroethane	**19.2**
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	**73**
Toluene	1.0 U
Trichloroethene	**39**
cis-1,2-Dichloroethene	**171**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

MW-20	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.1
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	**5.6**
trans-1,2-Dichloroethene	2.1
Vinyl Chloride	**18.8 J**
Xylene (Total)	3.0 U

MW-21	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	**4.1 J**
Xylene (Total)	3.0 U

MW-4	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.6
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

TP1-PZ-3	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	**235**
1,1-Dichloroethene	**20.3**
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	**10.3**
Ethylbenzene	3.3
Methylene Chloride	1.0 U
Tetrachloroethene	**42.6**
Toluene	2.4
Trichloroethene	**138**
cis-1,2-Dichloroethene	**2930**
trans-1,2-Dichloroethene	**7.2**
Vinyl Chloride	**6.1 J**
Xylene (Total)	3.0 U

TP1-PZ-4	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	**192**
1,1-Dichloroethene	2.6
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	3.5
Toluene	2.3
Trichloroethene	**24.7**
cis-1,2-Dichloroethene	**2180**
trans-1,2-Dichloroethene	3.3
Vinyl Chloride	**31.1 J**
Xylene (Total)	3.0 U

TP1-PZ-1	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.7
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

TP1-PZ-2	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

A2-PZ-2	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	4.6
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.1
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	**13.2**
Toluene	1.0 U
Trichloroethene	**36.3**
cis-1,2-Dichloroethene	**208**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	**17.1 J**
Xylene (Total)	3.0 U

TP2-PZ-1	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

TP2-PZ-2	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

TP2-PZ-3	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

TP2-PZ-4	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

A2-PZ-1	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	**15.0**
1,1-Dichloroethane	**164**
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	**7.3 J**
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	3.8
Toluene	1.0 U
Trichloroethene	**160**
cis-1,2-Dichloroethene	**455**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	**18.7 J**
Xylene (Total)	3.0 U

MW-3	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	2.9
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	2.7
Toluene	1.0 U
Trichloroethene	2.6
cis-1,2-Dichloroethene	**15.8**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	**3.0 J**
Xylene (Total)	3.0 U

MW-10	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	2.0
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	**24.6**
trans-1,2-Dichloroethene	2.2
Vinyl Chloride	**7.9 J**
Xylene (Total)	3.0 U

MW-2	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	4.2
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.0 U
Toluene	1.0 U
Trichloroethene	1.0 U
cis-1,2-Dichloroethene	**16.7**
trans-1,2-Dichloroethene	2.1
Vinyl Chloride	**8.7 J**
Xylene (Total)	3.0 U

MW-1	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	3.9
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	**21.5**
Toluene	1.0 U
Trichloroethene	**8.6**
cis-1,2-Dichloroethene	**28.3**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

PZ-5	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	**97.3**
Toluene	1.0 U
Trichloroethene	**21.8**
cis-1,2-Dichloroethene	**19.8**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

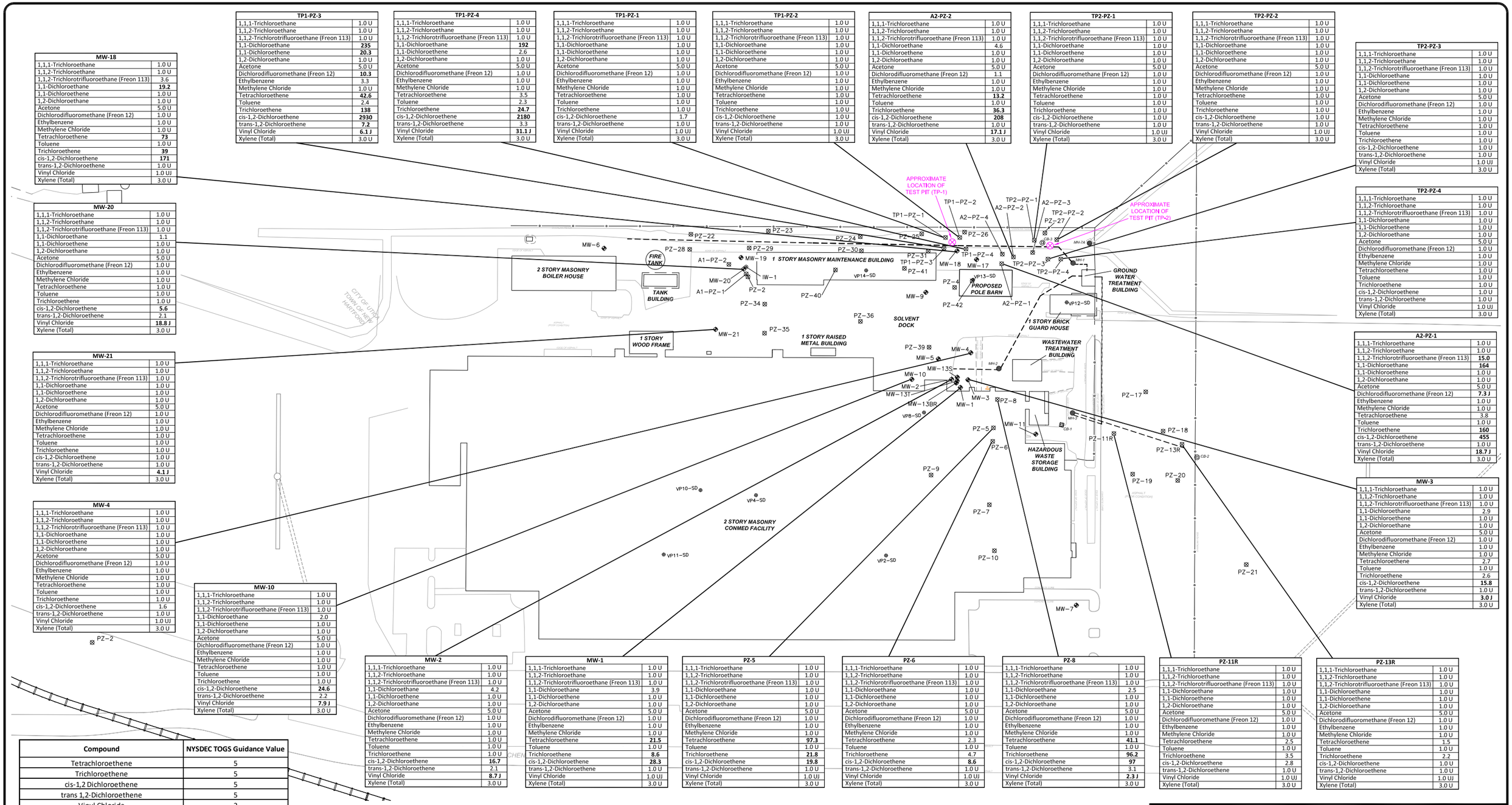
PZ-6	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	2.3
Toluene	1.0 U
Trichloroethene	4.7
cis-1,2-Dichloroethene	**8.6**
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

PZ-8	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	2.5
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	**41.1**
Toluene	1.0 U
Trichloroethene	**96.2**
cis-1,2-Dichloroethene	**97**
trans-1,2-Dichloroethene	3.1
Vinyl Chloride	**2.3 J**
Xylene (Total)	3.0 U

PZ-11R	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	2.5
Toluene	1.0 U
Trichloroethene	3.5
cis-1,2-Dichloroethene	2.8
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

PZ-13R	
1,1,1-Trichloroethane	1.0 U
1,1,2-Trichloroethane	1.0 U
1,1,2-Trichlorotrifluoroethane (Freon 113)	1.0 U
1,1-Dichloroethane	1.0 U
1,1-Dichloroethene	1.0 U
1,2-Dichloroethene	1.0 U
Acetone	5.0 U
Dichlorodifluoromethane (Freon 12)	1.0 U
Ethylbenzene	1.0 U
Methylene Chloride	1.0 U
Tetrachloroethene	1.5
Toluene	1.0 U
Trichloroethene	2.2
cis-1,2-Dichloroethene	1.0 U
trans-1,2-Dichloroethene	1.0 U
Vinyl Chloride	1.0 UJ
Xylene (Total)	3.0 U

Compound	NYSDEC TOGS Guidance Value
Tetrachloroethene	5
Trichloroethene	5
cis-1,2 Dichloroethene	5
trans 1,2-Dichloroethene	5
Vinyl Chloride	2
1,1,1-Trichloroethane	5
1,1-Dichloroethane	5
1,2-Dichloroethane	0.6
1,1-Dichloroethene	5
1,1,2,Trichloroethane	1
1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)	5
Dichloro-difluoromethane (Freon 12)	5
Ethylbenzene	5
Toluene	5
Xylenes, total	5
Acetone	50
Methylene Chloride	5



LEGEND:

- MW-10 ⊕ MONITORING WELL LOCATION
- PZ-9 ⊠ PIEZOMETER LOCATION
- GROUNDWATER COLLECTION TRENCH AND PIPING
- FENCE LINE
- MH-2 GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 CATCH BASIN WITH INLET GRATE LOCATION

NOTES:

1. LABORATORY ANALYSIS: EPA METHOD 8260C/5030C
2. CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)
3. QUALIFIERS:
   - J FLAG IDENTIFIES ESTIMATED CONCENTRATION
4. SAMPLES COLLECTED ON AUGUST 11, 2021.

POST-SHUTDOWN GROUNDWATER MONITORING

FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

VOC GROUNDWATER MONITORING DATA

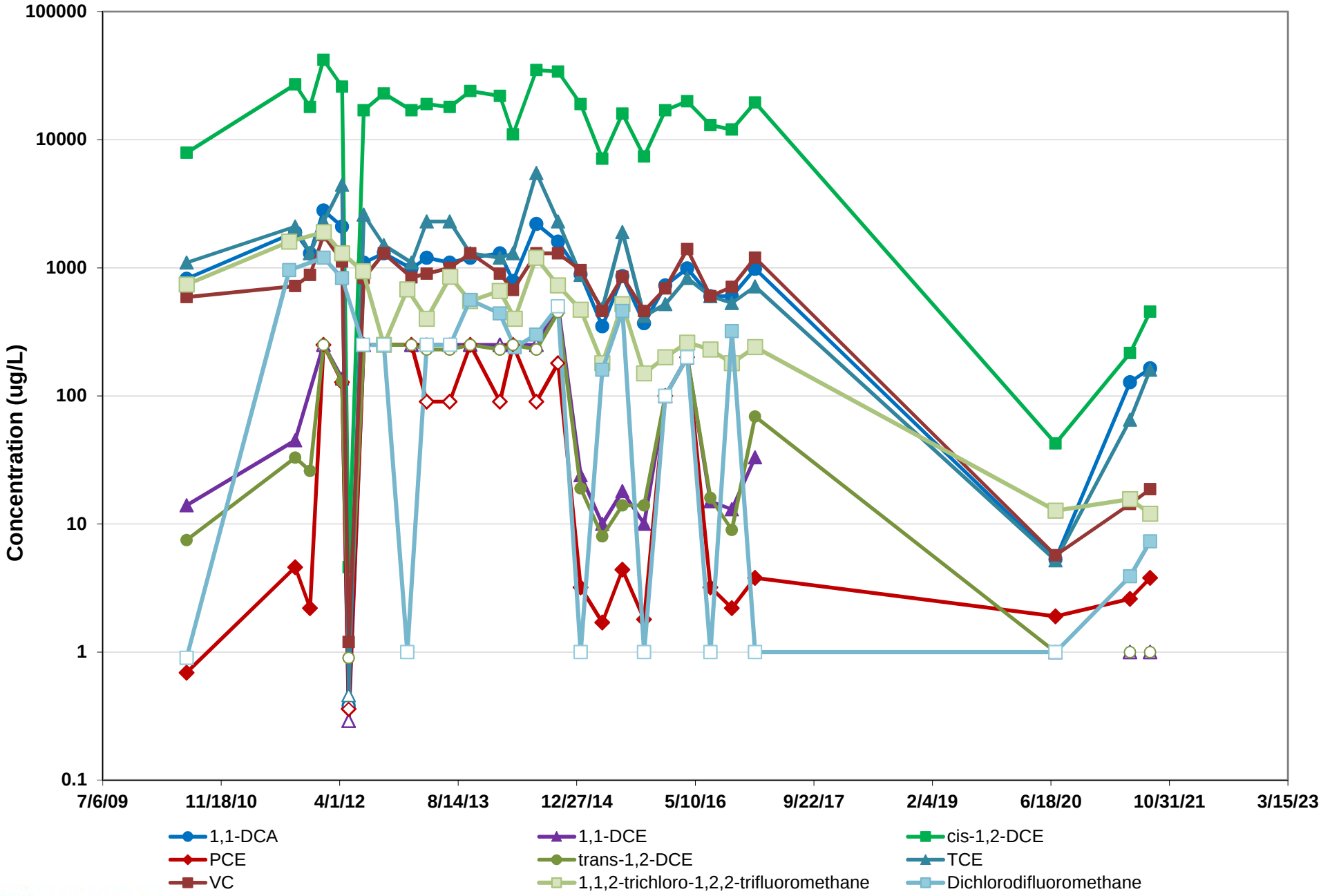
TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-0507758
DATE	10/08/21

FIGURE: D-2A

S:\CAD\LOCKHEED MARTIN\UTICA\OCTOBER 2021\GW QUALITY VOC 10-08-21.DWG

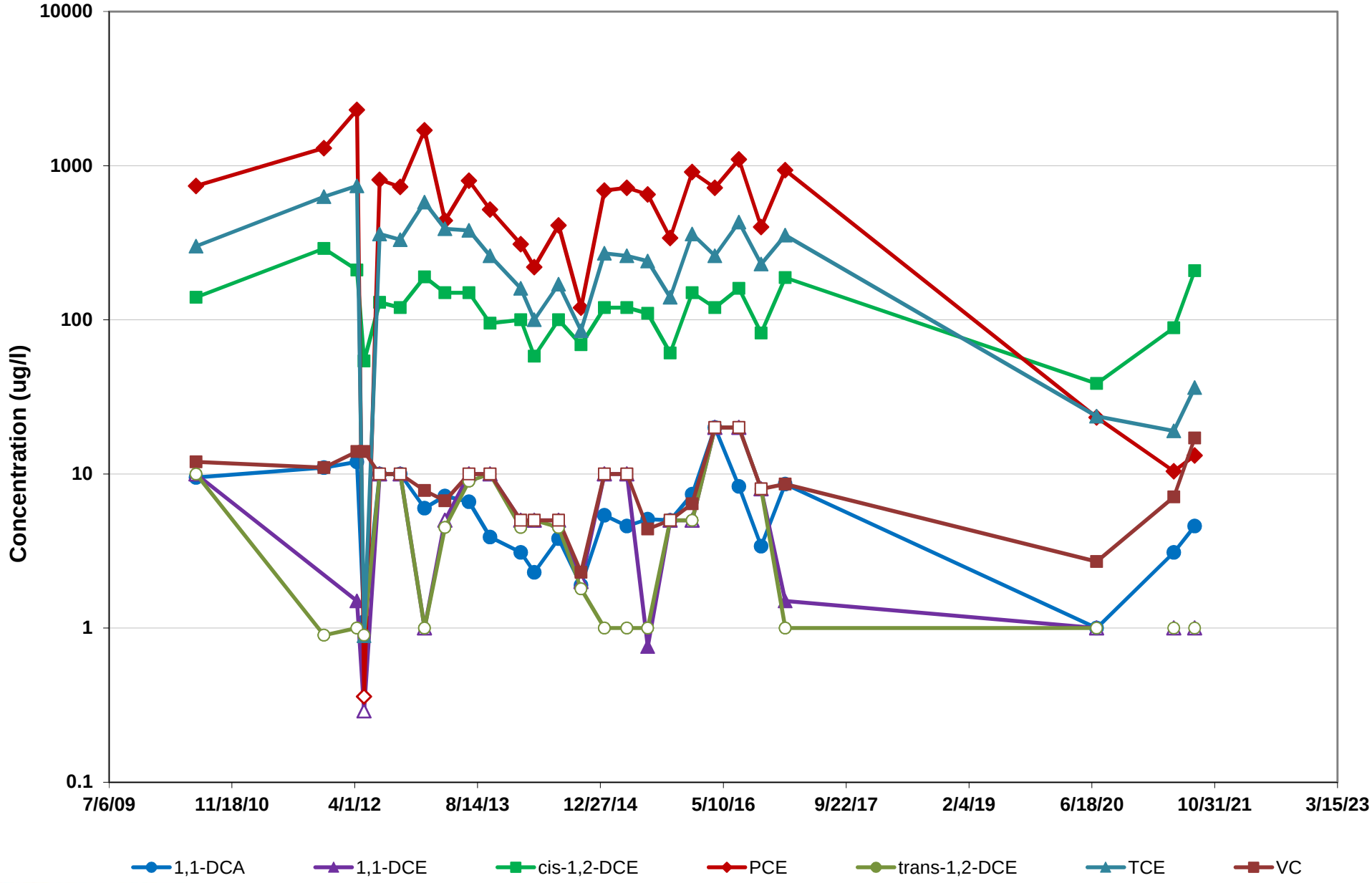
Figure 4-3a: Well A2-PZ-1 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

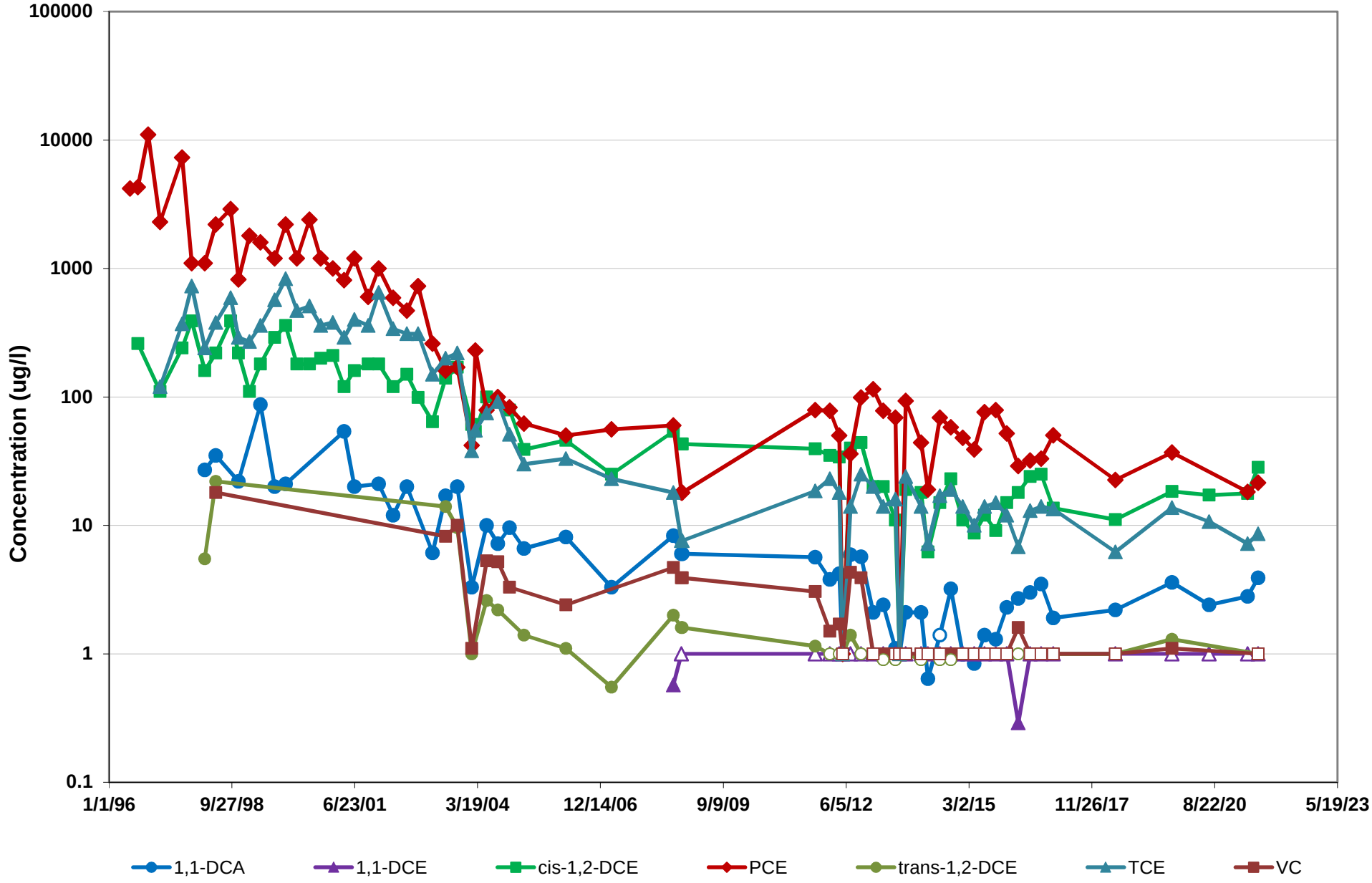
Figure 4-3b: Well A2-PZ-2 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

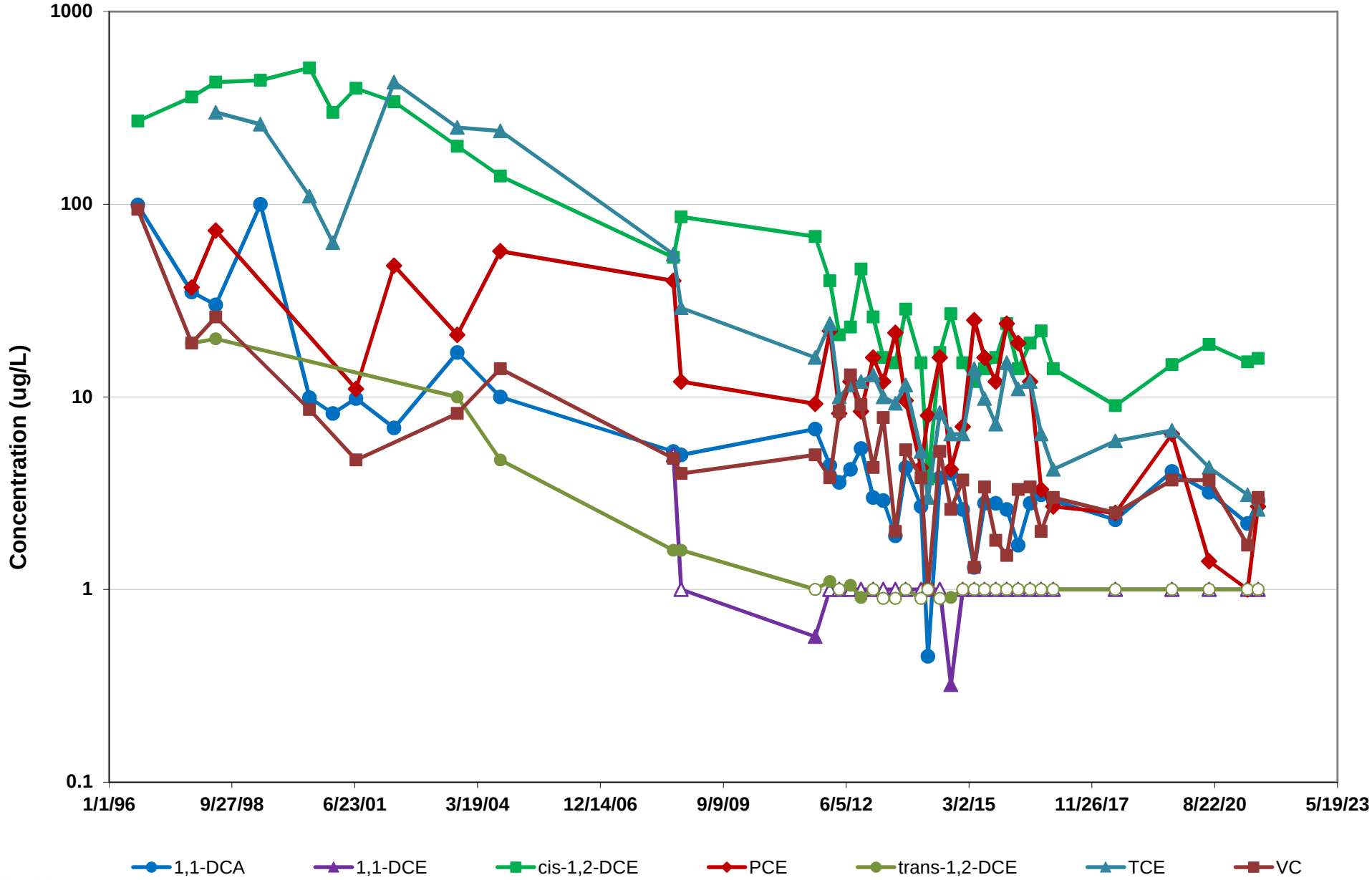
Figure 4-3c: Well MW-1 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

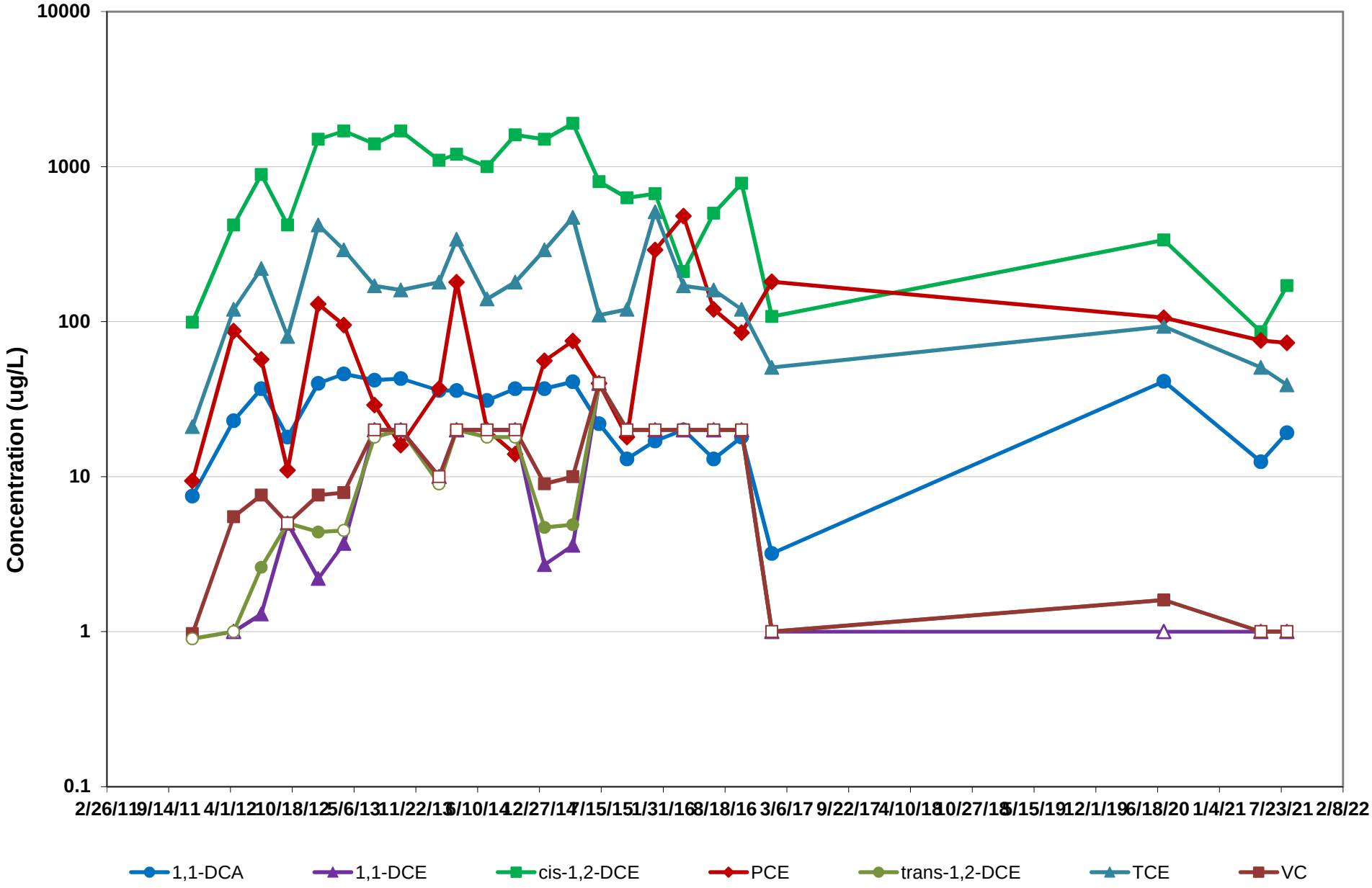
Figure 4-3d: Well MW-3 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

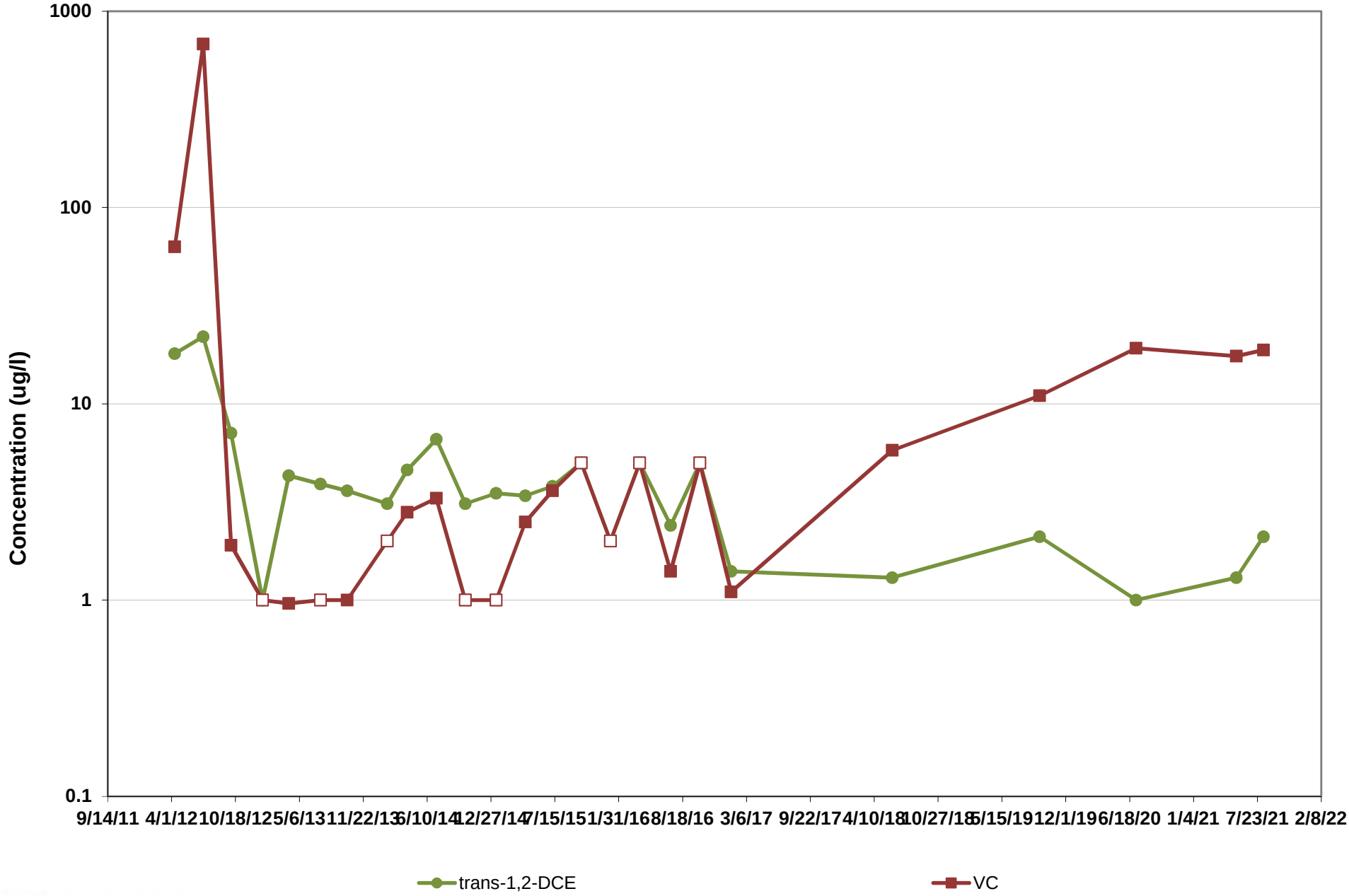
Figure 4-3e: Well MW-18 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

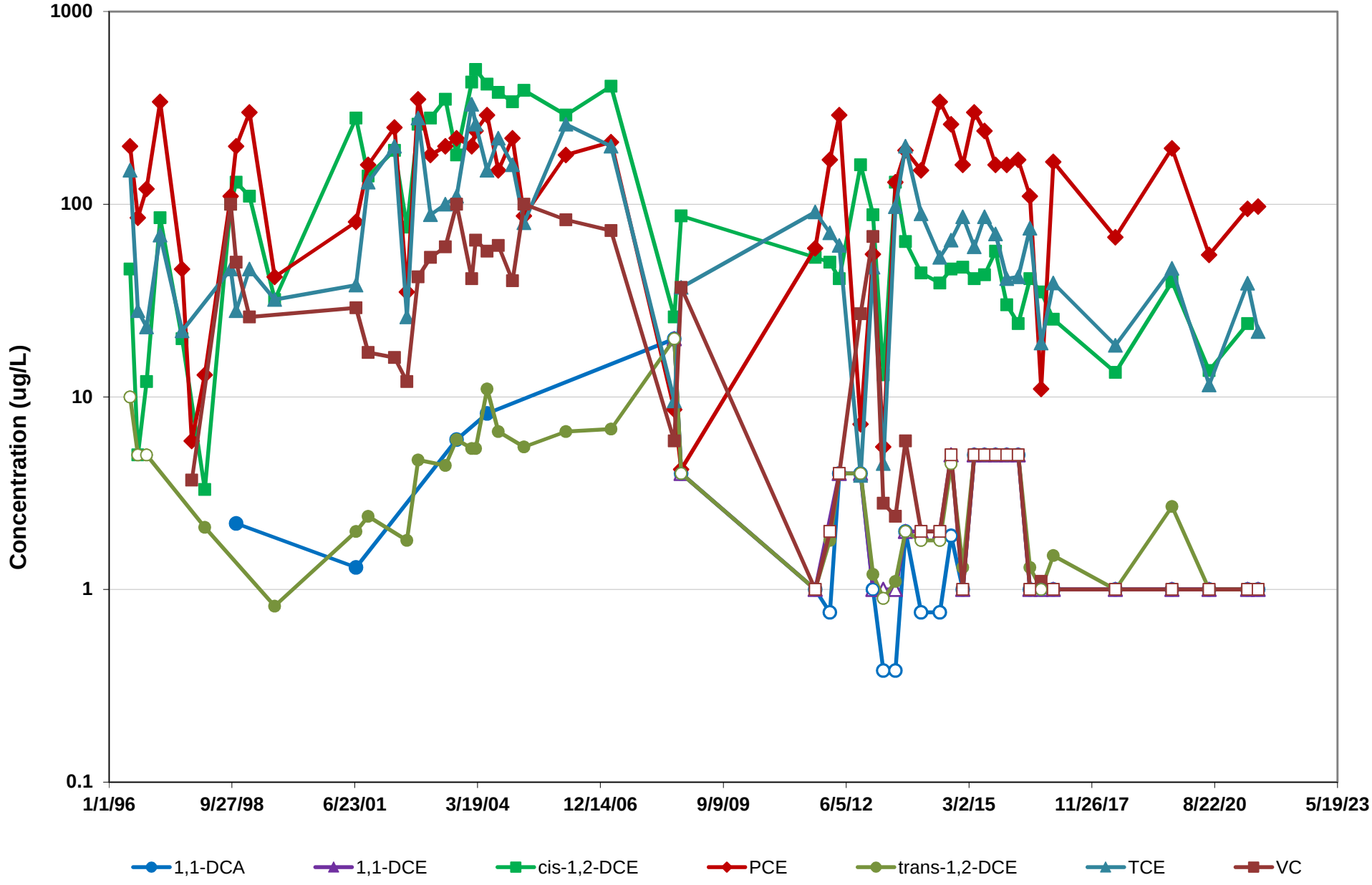
Figure 4-3f: Well MW-20 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

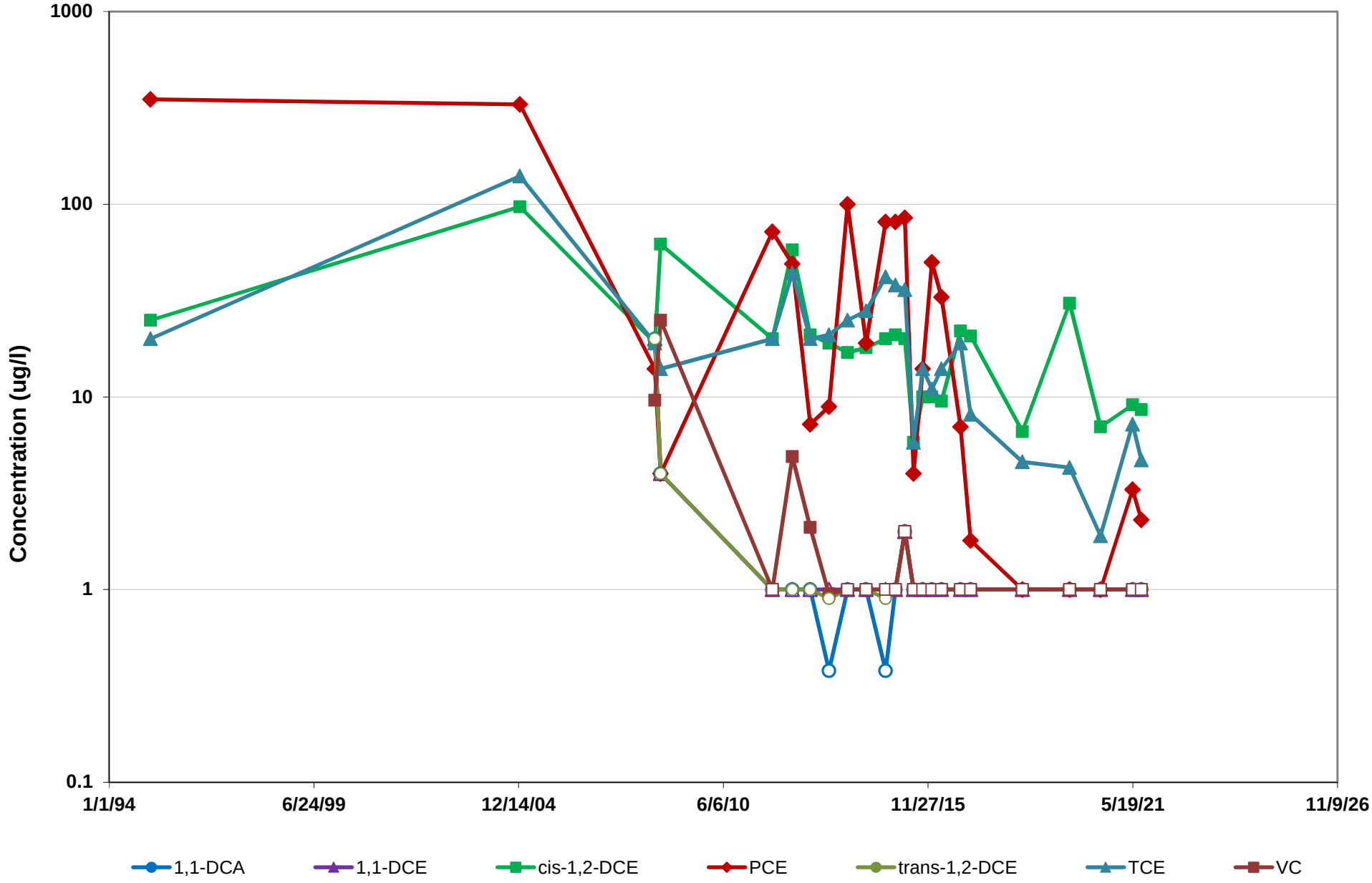
Figure 4-3g: Well PZ-5 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

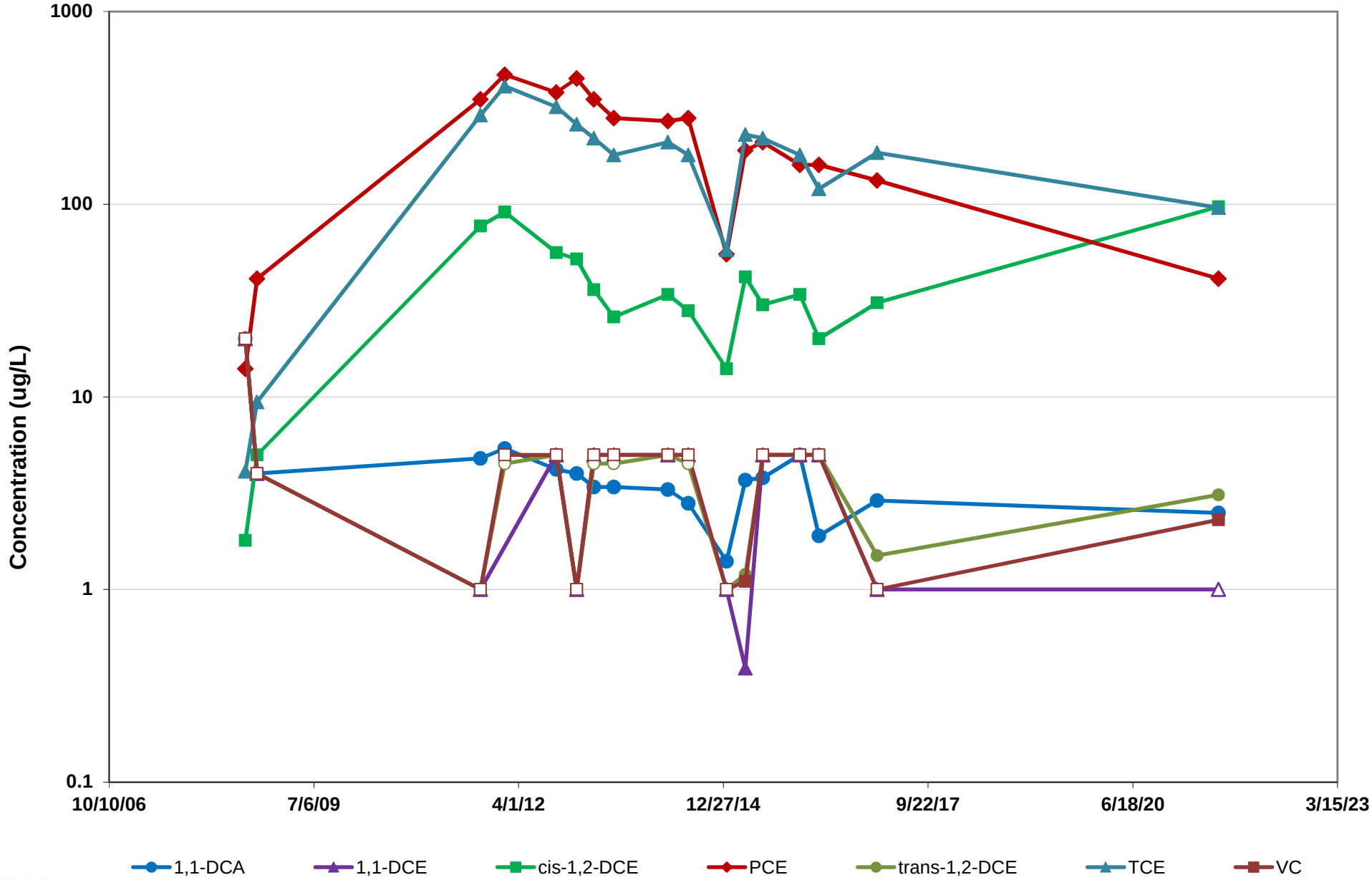
Figure 4-3h: Well PZ-6 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

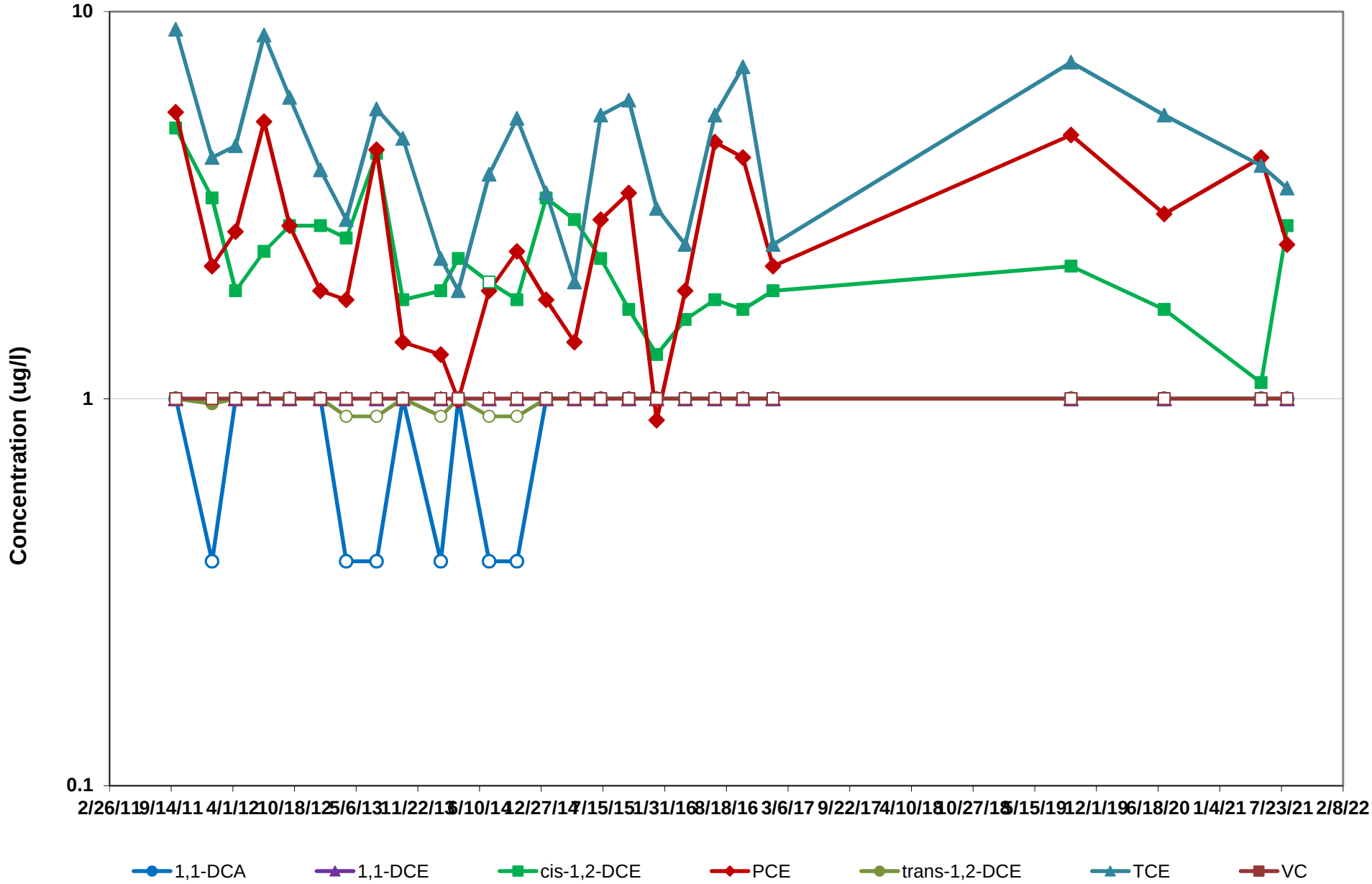
Figure 4-3i: Well PZ-8 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

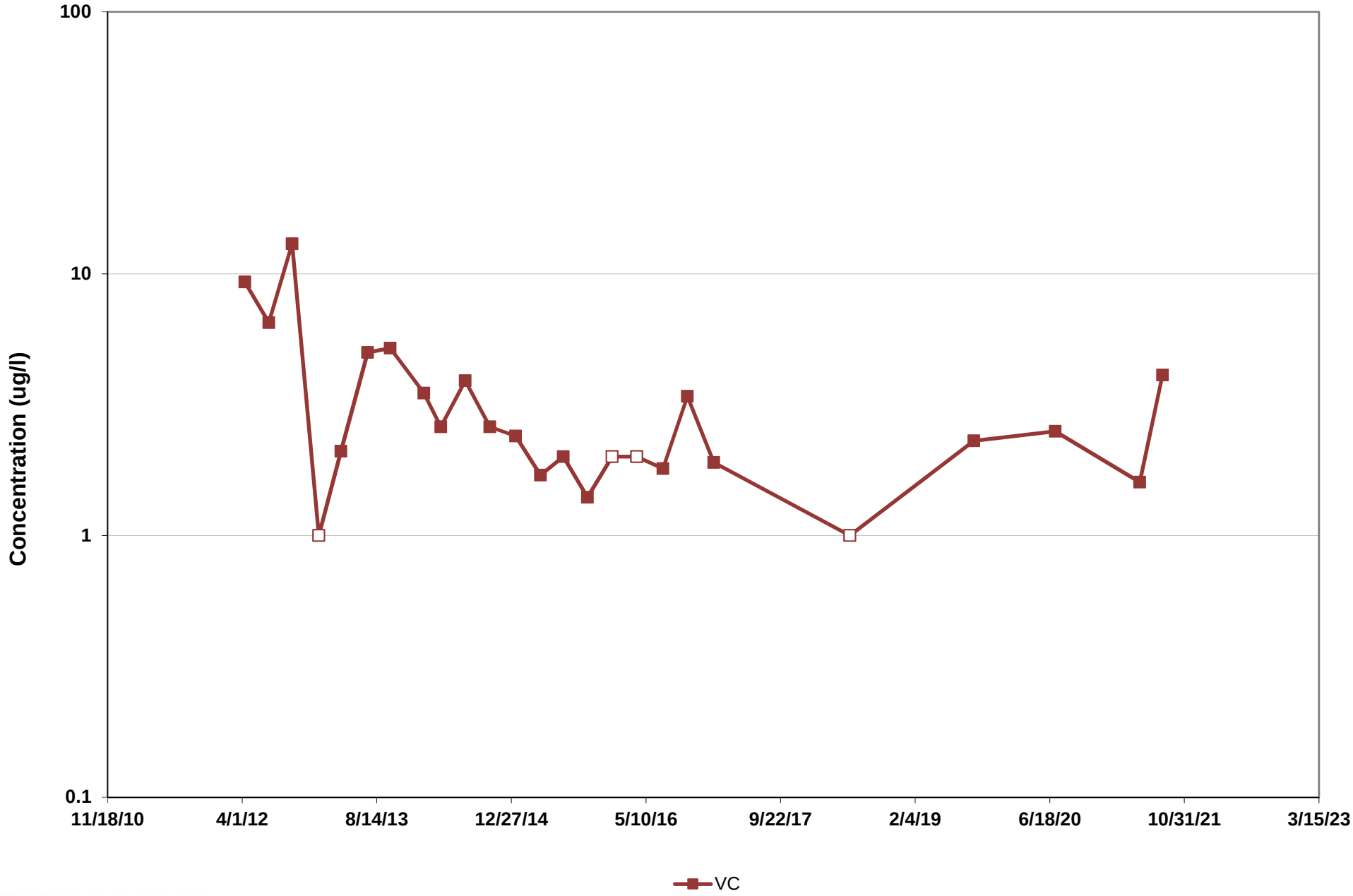
Figure 4-3j: Well PZ-11R Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

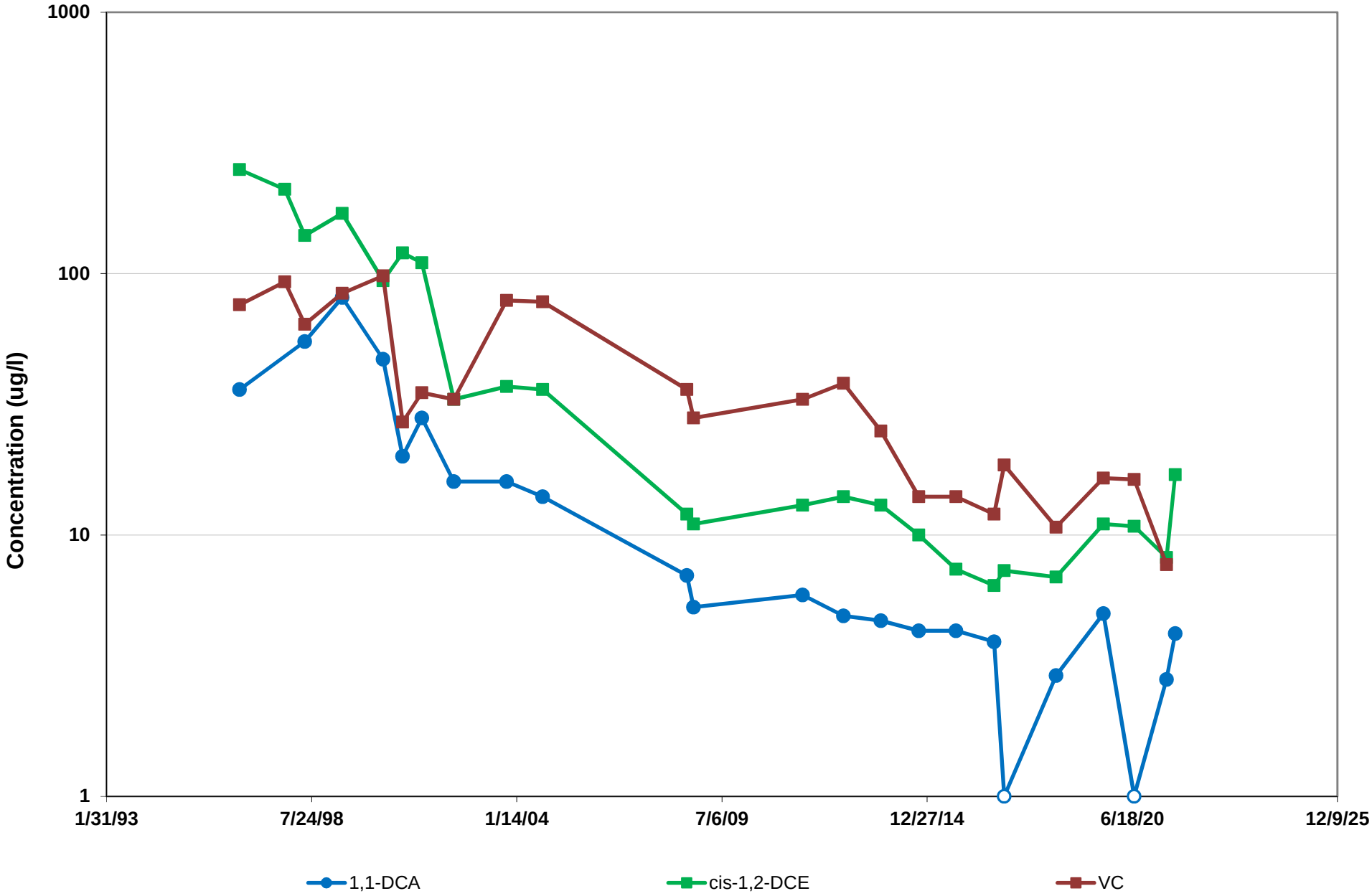
Figure 4-3k: Well MW-21 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

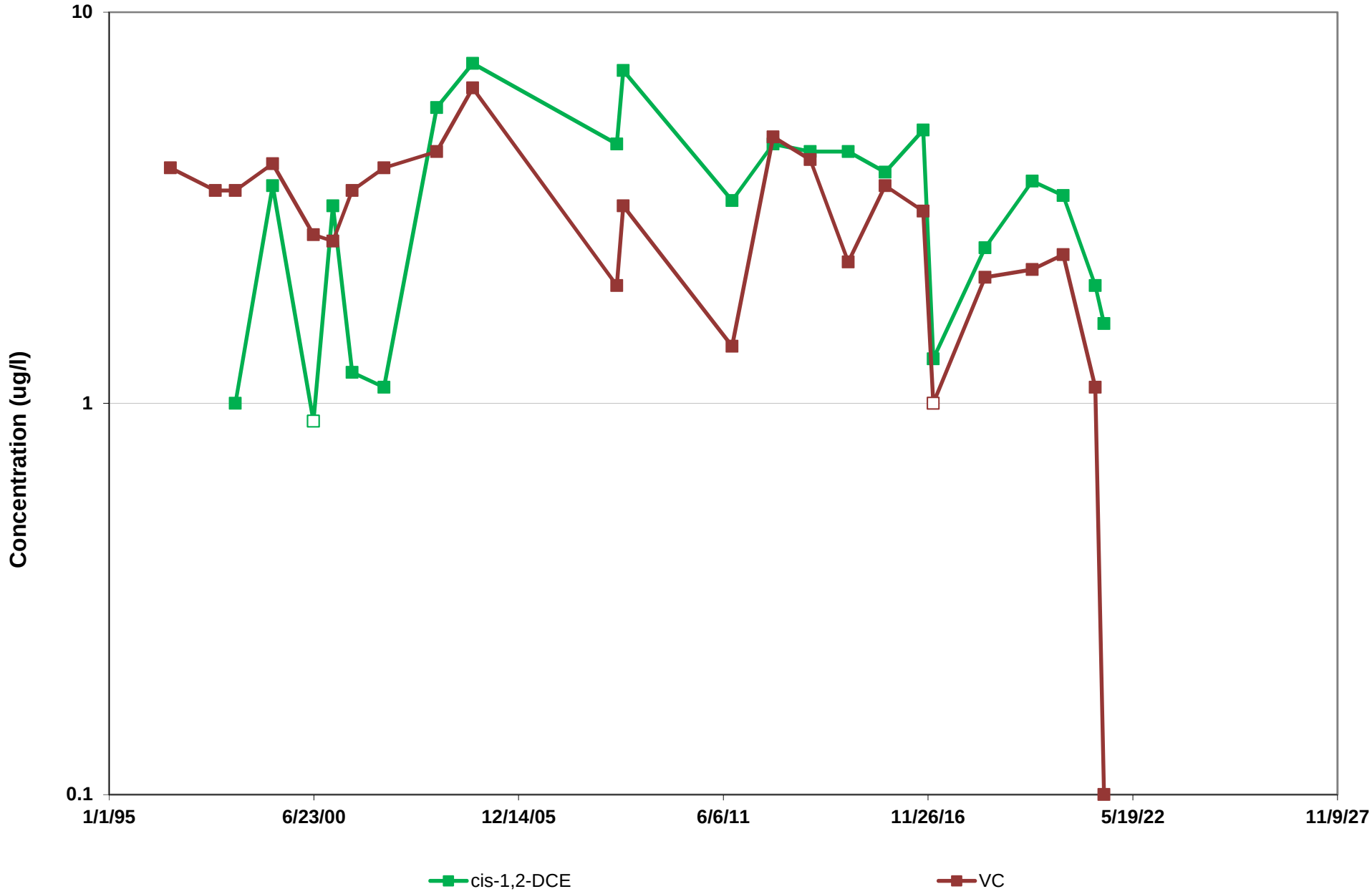
Figure 4-3l: Well MW-2 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.

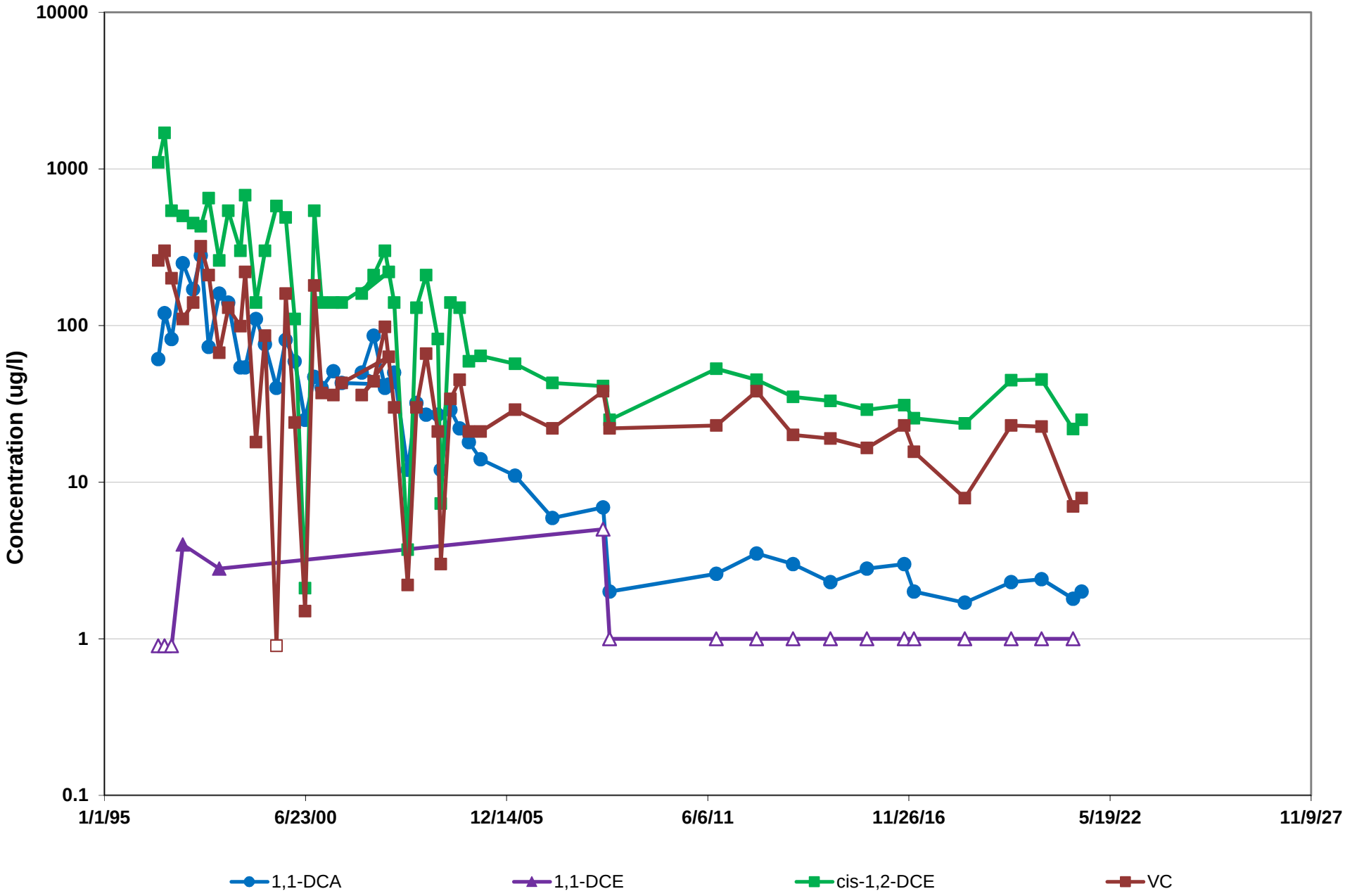
Figure 4-3m: Well MW-4 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

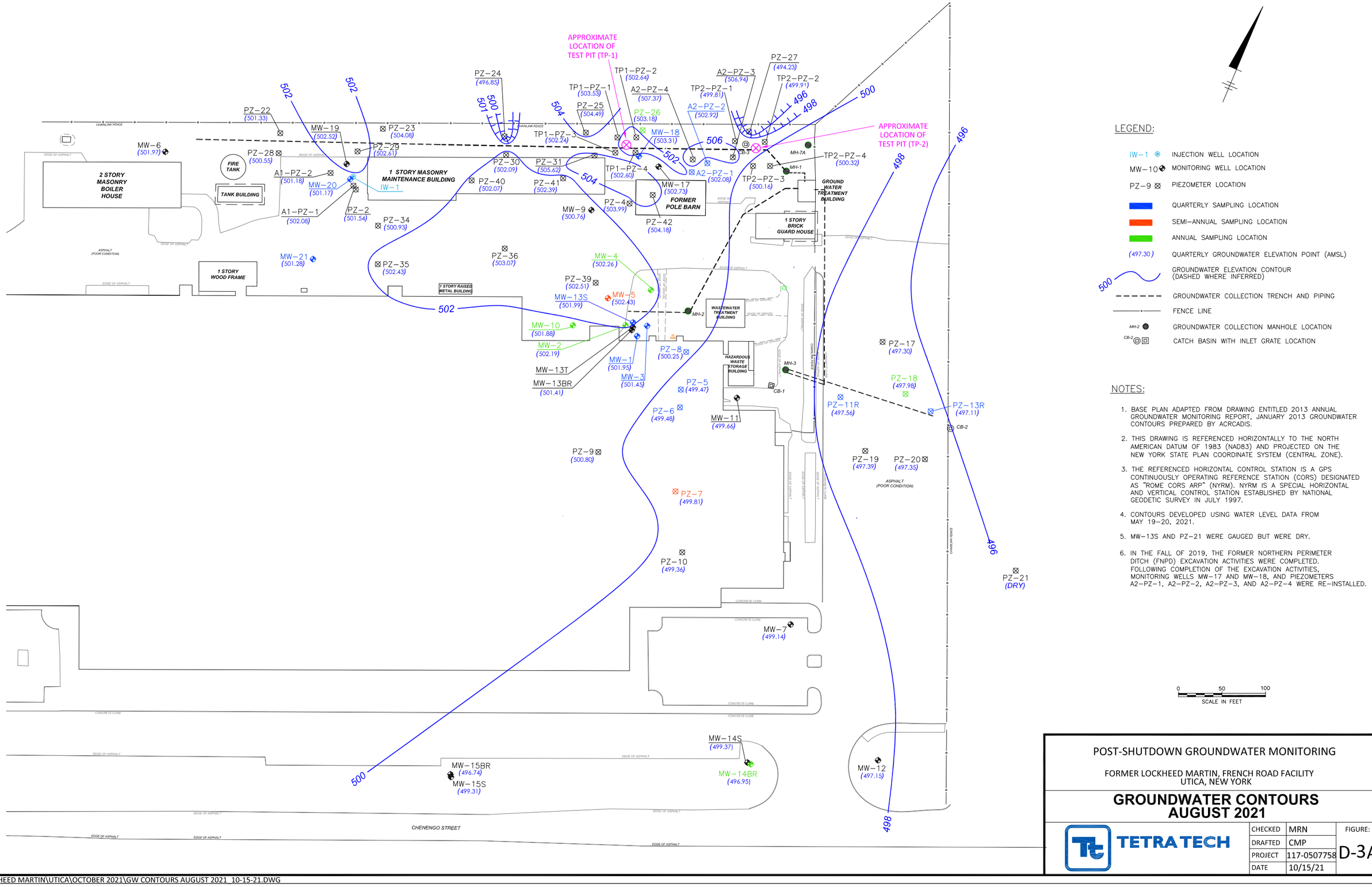
Non-detect sample results are represented with open symbols.

Figure 4-3n: Well MW-10 Groundwater Volatile Organic Compound Concentration Trends
Former Lockheed Martin Facility, Utica, New York



TETRA TECH

Non-detect sample results are represented with open symbols.



LEGEND:

- IW-1 — INJECTION WELL LOCATION
- MW-10 — MONITORING WELL LOCATION
- PZ-9 — PIEZOMETER LOCATION
- QUARTERLY SAMPLING LOCATION
- SEMI-ANNUAL SAMPLING LOCATION
- ANNUAL SAMPLING LOCATION
- (497.30) — QUARTERLY GROUNDWATER ELEVATION POINT (AMSL)
- 500 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER COLLECTION TRENCH AND PIPING
- FENCE LINE
- MH-2 — GROUNDWATER COLLECTION MANHOLE LOCATION
- CB-2 — CATCH BASIN WITH INLET GRATE LOCATION

NOTES:

1. BASE PLAN ADAPTED FROM DRAWING ENTITLED 2013 ANNUAL GROUNDWATER MONITORING REPORT, JANUARY 2013 GROUNDWATER CONTOURS PREPARED BY ACRCADIS.
2. THIS DRAWING IS REFERENCED HORIZONTALLY TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AND PROJECTED ON THE NEW YORK STATE PLAN COORDINATE SYSTEM (CENTRAL ZONE).
3. THE REFERENCED HORIZONTAL CONTROL STATION IS A GPS CONTINUOUSLY OPERATING REFERENCE STATION (CORS) DESIGNATED AS "ROME CORS ARP" (NYRM). NYRM IS A SPECIAL HORIZONTAL AND VERTICAL CONTROL STATION ESTABLISHED BY NATIONAL GEODETIC SURVEY IN JULY 1997.
4. CONTOURS DEVELOPED USING WATER LEVEL DATA FROM MAY 19-20, 2021.
5. MW-13S AND PZ-21 WERE GAUGED BUT WERE DRY.
6. IN THE FALL OF 2019, THE FORMER NORTHERN PERIMETER DITCH (FNPD) EXCAVATION ACTIVITIES WERE COMPLETED. FOLLOWING COMPLETION OF THE EXCAVATION ACTIVITIES, MONITORING WELLS MW-17 AND MW-18, AND PIEZOMETERS A2-PZ-1, A2-PZ-2, A2-PZ-3, AND A2-PZ-4 WERE RE-INSTALLED.

0 50 100
SCALE IN FEET

POST-SHUTDOWN GROUNDWATER MONITORING

FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER CONTOURS AUGUST 2021

TETRA TECH

CHECKED	MRN
DRAFTED	CMP
PROJECT	117-0507758
DATE	10/15/21

FIGURE: D-3A

S:\CAD\LOCKHEED MARTIN\UTICA\OCTOBER 2021\GW CONTOURS AUGUST 2021_10-15-21.DWG

TETRA TECH

TABLES

Table 4-1
Groundwater Elevation Measurements
Quarterly Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Well ID	Top of Casing Elevation (ft)	Ground Water Elevation (ft)													
		Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1															
MW-1	507.27	500.45	500.85	499.41	498.93	499.32	499.52	499.06	498.32	499.50	499.22	498.67	498.59	498.55	501.95
MW-3	509.45	499.57	499.85	498.87	498.55	498.78	498.88	497.56	497.91	498.79	498.60	498.17	498.04	498.00	491.45
MW-18**	505.16	502.29	502.12	501.89	501.88	502.19	502.00	501.62	501.43	502.22	--	--	502.15	503.14	503.31
MW-20	503.40	501.86	502.01	501.28	501.00	501.35	501.40	501.06	500.49	501.27	501.46	500.98	501.10	500.81	501.17
PZ-5*	508.20	498.70	498.46	498.73	498.98	499.98	499.31	498.60	498.89	499.27	499.08	498.55	499.18	499.17	499.47
PZ-6*	508.28	499.12	499.01	499.13	499.07	499.99	499.11	499.03	499.05	499.06	499.13	498.18	499.07	498.36	499.48
PZ-8	508.23	499.60	499.68	499.10	498.86	499.21	498.81	498.70	498.53	498.92	498.42	498.58	498.66	498.55	500.25
PZ-11R	504.88	496.83	496.90	496.39	496.32	496.50	496.52	496.24	496.13	496.62	496.17	496.18	496.17	496.46	497.56
PZ-13R	503.98	495.98	495.96	495.81	495.83	495.89	496.00	495.85	495.82	495.98	495.88	495.82	495.48	495.93	497.11
A1-PZ-2	503.00	--	501.73	501.40	500.77	501.15	501.56	500.89	500.62	501.33	501.49	501.32	500.89	500.81	501.18
A2-PZ-1**	504.37	--	505.83	504.88	504.40	504.87	505.06	504.78	504.70	505.50	--	--	503.12	503.35	503.47
A2-PZ-2**	504.79	503.59	503.45	503.39	503.32	503.28	503.09	503.16	503.03	503.73	--	--	502.17	502.58	502.92
Objective 2															
MW-5	504.33	500.78	501.77	500.02	499.49	500.03	500.44	499.46	500.10	500.38	499.97	499.22	499.26	499.57	502.43
MW-13S	505.81	500.21	500.68	499.37	498.93	499.30	499.52	499.06	DRY	497.92	499.24	DRY	DRY	DRY	501.99
MW-14BR	507.95	447.55	453.44	459.39	464.31	447.89	452.18	458.24	462.85	494.10	495.75	497.30	496.89	496.91	496.95
MW-21	503.66	501.41	501.73	501.48	501.09	499.64	500.74	501.15	500.96	501.11	501.62	500.91	501.14	501.11	501.28
PZ-18	504.85	497.27	497.22	496.99	496.94	497.15	497.16	496.94	496.86	497.17	496.99	496.95	496.90	497.16	497.98
PZ-26	510.95	502.23	502.14	501.98	501.68	501.93	501.70	501.66	501.46	502.23	504.79	501.87	502.03	502.69	503.18
Objective 3															
MW-2	504.60	500.43	501.05	499.50	498.95	499.39	499.67	499.15	498.38	499.58	499.36	498.73	495.62	498.59	502.19
MW-4	506.73	497.11	497.02	495.91	495.28	496.08	496.58	495.61	495.13	497.18	496.56	495.82	495.66	495.85	502.26
PZ-7*	508.26	499.44	499.49	499.50	499.48	499.57	499.38	499.38	499.45	502.45	499.47	499.45	499.59	499.46	499.81
MW-10^	504.48	501.33	501.86	499.98	499.34	500.02	500.25	499.56	498.71	500.08	499.72	499.08	498.91	499.13	501.89
Others															
IW-1	506.80	505.25	505.73	504.96	505.03	505.19	505.41	504.86	504.48	--	504.75	504.99	504.99	505.30	505.03
MW-6	508.06	502.27	502.22	502.00	501.62	502.00	502.06	501.77	501.24	502.00	502.09	501.86	501.64	502.00	501.97
MW-7	506.94	--	498.80	498.96	499.08	498.49	498.41	498.86	498.94	498.56	499.08	498.97	498.93	498.69	499.14
MW-9	504.84	501.73	502.09	501.21	500.93	502.04	502.15	501.40	500.59	502.19	501.61	501.34	501.39	501.59	500.76
MW-11	507.03	499.31	498.70	499.06	499.09	499.18	498.61	498.91	499.03	498.79	498.96	499.18	498.95	498.46	499.66
MW-12	508.30	496.67	497.92	496.64	496.27	496.83	496.92	496.23	495.97	497.51	496.76	496.77	497.05	498.08	497.15
MW-13BR	506.12	495.73	495.28	494.69	495.52	495.20	496.17	495.40	496.17	496.78	490.52	496.49	496.16	495.95	501.41
MW-14S	507.85	498.05	500.13	499.04	498.12	499.32	499.47	498.08	497.27	499.99	493.27	499.19	499.35	499.84	499.37
MW-15S	507.26	--	499.35	498.99	498.92	499.30	499.08	498.78	498.74	499.20	498.91	498.96	498.85	499.09	499.31
MW-15BR	507.24	--	488.47	488.88	489.39	489.84	490.23	490.65	490.97	491.37	493.33	494.97	495.79	496.58	496.74
MW-17**	504.73	501.04	501.58	500.80	501.04	501.58	501.82	501.04	500.77	501.50	--	--	501.85	501.51	502.73
MW-19*	503.07	502.58	502.17	502.32	501.83	501.84	501.80	501.94	501.89	501.59	502.13	502.21	501.96	502.04	502.52
PZ-2*	503.76	501.85	502.14	501.46	501.14	501.36	501.79	501.40	500.87	501.69	501.62	501.24	501.40	501.50	501.54
PZ-4	506.13	504.13	504.16	503.74	503.63	503.78	503.76	503.38	502.97	503.22	503.48	503.31	503.06	503.48	503.99
PZ-9	508.08	500.07	499.99	500.22	500.16	500.11	500.07	500.19	500.17	500.11	500.14	500.46	500.44	500.10	500.80
PZ-10	508.14	499.44	499.50	499.30	499.28	499.46	499.11	499.23	499.23	499.34	499.30	499.41	499.36	499.36	499.36
PZ-17	504.05	497.85	497.66	497.06	497.03	497.34	497.09	496.61	496.66	497.38	496.43	496.88	497.15	498.48	497.30
PZ-19	504.60	--	498.06	497.33	497.40	497.55	497.49	497.22	497.13	497.35	497.18	497.15	497.25	497.30	497.39
PZ-20	503.85	--	497.66	497.01	497.02	497.20	497.28	496.92	496.72	497.11	497.03	496.76	496.78	496.95	497.35
PZ-21	505.70	DRY	496.77	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
PZ-22	508.57	502.02	501.86	501.18	499.80	501.58	501.34	500.34	499.39	501.52	500.50	500.79	500.84	501.44	501.33
PZ-23	510.07	503.96	503.91	503.59	503.31	503.62	503.05	503.18	503.05	503.81	503.58	503.45	503.28	503.54	504.08
PZ-24	504.77	494.49	494.52	494.12	493.79	494.19	494.18	493.83	493.77	494.15	493.93	493.84	493.92	494.14	496.85
PZ-25	510.62	504.56	504.58	504.23	503.86	504.21	503.86	503.83	503.57	504.43	503.98	504.17	501.09	504.27	504.49
PZ-27	504.12	--	495.36	493.70	492.70	494.09	493.64	492.74	492.57	493.80	493.07	493.24	492.87	493.49	494.23
PZ-28	504.12	500.85	500.74	500.42	500.30	500.58	500.77	497.02	500.05	500.70	500.59	500.35	500.44	500.59	500.55
PZ-29	503.84	--	501.80	501.67	501.61	501.64	501.79	501.68	501.19	501.72	501.74	501.42	--	--	502.61
PZ-30	504.72	501.44	501.45	501.24	500.92	501.17	501.18	500.86	500.77	501.30	501.04	500.90	500.84	500.89	502.09
PZ-31	506.17	505.86	505.87	505.06	505.67	505.77	505.87	505.11	505.47	505.62	505.82	505.63	505.13	505.10	505.62
PZ-34	503.88	502.00	502.09	501.59	501.19	501.36	501.78	501.06	500.77	501.61	501.82	501.33	501.33	501.58	500.93
PZ-35	503.98	502.32	503.30	502.27	501.86	501.74	502.81	501.86	501.54	502.21	502.50	502.17	502.40	502.50	502.43
PZ-36	504.23	--	503.36	502.90	502.51	502.93	503.47	502.79	502.24	503.17	502.70	502.31	502.35	502.80	503.07
PZ-39	504.51	502.49	503.15	501.54	500.93	501.26	501.87	500.92	500.30	501.52	501.05	500.51	500.50	500.85	502.51
PZ-40	506.68	502.51	502.54	502.09	501.83	501.98	502.23	501.87	501.41	502.14	502.19	501.79	501.80	502.03	502.07
PZ-41	506.27	501.97	502.51	502.01	501.58	501.84	501.95	501.63	501.25	501.93	501.77	500.53	501.45	501.88	502.39
PZ-42	505.18	504.63	504.49	504.53	504.63	504.53	504.73	504.53	504.49	504.68	504.80	504.58	504.13	504.13	504.18
A1-PZ-1	503.77	--	502.70	502.62	502.12	501.82	502.75	502.47	502.15	501.72	502.43	502.34	502.57	502.45	502.08
A2-PZ-3**	509.46	508.23	508.05	506.98	506.15	507.64	507.53	505.82	505.36	507.40	--	--	497.91	502.16	506.94
A2-PZ-4**	509.40	--	509.20	507.81	507.97	508.12	508.95	507.27	507.62	508.07	--	--	500.76	501.22	507.37
TP1-PZ-1	506.19	--	--	--	--	--	--	--	--	--	--	--	--	502.31	503.53
TP1-PZ-2	506.31	--	--	--	--	--	--	--	--	--	--	--	--	502.33	502.64
TP1-PZ-3	505.47	--	--	--	--	--	--	--	--	--	--	--	--	501.37	502.24
TP1-PZ-4	505.26	--	--	--	--	--	--	--	--	--	--	--	--	495.93	502.60
TP2-PZ-1	504.52	--	--	--	--	--	--	--	--	--	--	--	--	497.36	499.81
TP2-PZ-2	505.06	--	--	--	--	--	--	--	--	--	--	--	--	497.37	499.91
TP2-PZ-3	504.59	--	--	--	--	--	--	--	--	--	--	--	--	496.70	500.16
TP2-PZ-4	505.27	--	--	--	--	--	--	--	--	--	--	--	--	DRY	500.32

Notes:
1. "--" - Not measured due to access or well was decommissioned.
2. DRY - No measurable water
3. All measurements presented above are given in feet Above Mean Sea Level (AMSL), as measured from the July 1997 National Geodetic Survey datum.
4. PZ-11R, MW-2 and MW-19 measurements were unable to be collected on 10/1/2013. The values presented above were calculated from the initial water level collected during the sampling event between 10/2 and 10/4/2013.
5. The Oct. 2014 MW-14BR groundwater elevation was recorded immediately prior to sampling and not during the earlier gauging event, due to instrument malfunction.
6. PZ-11R was inaccessible on 7/11/16 during gauging (car parked on top of piezometer); the water level was measured the next day on 7/12/16 at 7:40 AM.
7. * Indicates a monitoring well or piezometer with an adjusted TOC elevation following the cutting of casing (MW-19, PZ-5, PZ-6, and PZ-7) or the replacement of PVC top (PZ-2) for improved well cover fitting. Repairs were performed on May 27, 2015 (MW-19), June 17, 2015 (PZ-2), and July 11, 2016 (PZ-5, PZ-6, and PZ-7). The casings were re-surveyed on January 21, 2016 (MW-19 and PZ-2) or re-measured on July 11, 2016 (PZ-5, PZ-6, PZ-7). Note that groundwater elevations calculated prior to the July 2015 monitoring event are based on the previous [surveyed] TOC elevations for MW-19 and PZ-2; the groundwater elevations calculated prior to the October 2016 monitoring event are based on the previous [surveyed] TOC elevations for PZ-5, PZ-6, and PZ-7.
8. In October 2017, monitoring wells MW-17 and MW-18 and piezometers A2-PZ-1, A2-PZ-2, A2-PZ-3, A2-PZ-4, A2-PZ-5, A2-PZ-6, A2-PZ-7, A2-PZ-8, PZ-32, and PZ-33 were decommissioned in preparation for the former northern perimter ditch (FNPD) excavation.
9. ** Indicates a monitoring well or piezometer that was replaced following the FNPD excavation activities.

TETRA TECH

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Tetrachloroethene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	**77 [81]**	**78**	**50**	**36**	**99**	**110D [120D]**	**70 [78]**	**69**	**93**	**43 [44]**	**19**	**69 [66]**	**58 [57]**	**48 [48]**	**37 [39]**	**76**	**79**	**48 [52]**	**29**	**32**	**29 [33]**	**50.2**	**22.6 J**	**37**	**21.9**	**18.2**	**21.5**
	MW-3	**9.2**	**22**	**8.2**	**12[12]**	**8.4**	**16**	**12**	**21 [22]**	**9.6 [9.5]**	4.3	**7.9 [8.1]**	**16**	4.2	**7.0**	**25**	**16 [16]**	**12**	**24**	**19 [17]**	**12**	3.3	2.7	2.5	**6.4**	1.4	1	2.7
	MW-18	--	--	**64 D**	**57**	**11**	**130 D**	**95**	**29**	**16 J**	**37**	**180**	**20**	**14**	**56**	**75**	40 U	**18 J**	**290**	**480**	**120**	**85**	**181**	--	--	**106**	**75.7**	**73**
	MW-20	--	--	7.2U	5.0 U	1.0 U	1.0 U	0.36 U	0.36 U	1.0 UJ	0.72 U	2.0 U	0.72 U	0.36 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0U	1.0 U	1.0 U	1.0 U
	PZ-5	**59**	**170**	**290**	NS	**7.2**	**55**	**5.5**	**130**	**190**	**150**	NS	**340**	**260**	**160**	**300**	**240**	**160**	**160**	**170**	**110**	**11**	**166**	**67.4**	**195**	**54.5**	**94.6**	**97.3**
	PZ-6	**72**	**--**	**49**	**--**	**7.2**	--	**8.9**	--	**100 D**	--	**19**	--	**81**	**81**	**85**	4.0	**14**	**50**	**33**	--	**7.0**	1.8	1.0 U	1.0 U	1.0 U	3.3	2.3
	PZ-8	**350 D**	**470**	NS	NS	**380**	**450 D**	**350**	**280**	NS	NS	**270**	**280**	NS	**55**	**190**	**210**	NS	**160**	**160**	NS	NS	**133**	NS	NS	NS	NS	**41**
	PZ-11R	**5.5**	2.2	2.7	**5.2**	2.8	1.9	1.8	4.4	1.4	1.3	0.99 J	1.9	2.4	1.8	1.4	2.9	3.4	2.4	1.9	4.6	4.2	2.2	--	4.8	3.0	4.2	2.5
	PZ-13R	1.7	0.98 J	0.75 J	1.1	0.59 J	1.0 U	0.57	0.92	0.59 J	0.49	1.0 U	0.67	0.89	0.66	1.0 U	0.83 J	1.1	0.88 J	0.59 J	1.2	1.3	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.5
	A2-PZ-1	5	250 U	250 U **[5.3]**	250 U	250 U	1.0 U	90 U	90 U	250 U	90 U	250 U	90 U	180 U	3.2	1.7	4.4	1.8	100 U	200 U	3.2	2.2	3.8	--	--	1.9	2.6	3.8
	A2-PZ-2	--	--	**2300 D**	**810**	**730**	**1700 D**	**440 D**	**800**	**520**	**310**	**220**	**410**	**120**	**690**	**720**	**650 T**	**340**	**910**	**720**	**1100**	**400**	**936**	--	--	**23.3**	**10.4**	**13**
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	0.55 J	--	0.36 U	--	1.0 UJ	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.36 U	0.36 U	NS	NS	1.0 U	0.36 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--		1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	**--**	1.0 U	1.0 U	1.0 U	1.0 U	0.36 U	0.36 U	1.0 U	0.36 U	1.0 U	0.36 U	0.36 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	0.41 J	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	0.36 J	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.36 U [3.6 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.36 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	0.36 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Trichloroethene																										
NYSDEC TOGS Guidance Value:		5																										
Sampling Date:		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	**18 [19]**	**23**	**18**	**14**	**25**	**20 [20]**	**14 [14]**	**16**	**24**	**13 [14]**	**7.2**	**17 [16]**	**19 [19]**	**14 [13]**	**9.7 [10]**	**14**	**15**	**12 [11]**	**6.8**	**13**	**12 [14]**	**13.4**	**6.2**	**13.7**	**10.7**	**7.2**	**8.6**
	MW-3	**16**	**24**	**10**	**12 [11]**	**12**	**13**	**10**	**8.9 [9.6]**	**11 [12]**	**5.2**	3.0 [3.0]	**8.3**	**6.4**	**6.4**	**14**	**9.5 [9.8]**	**7.2**	**15**	**11 [11]**	**12**	**6.4**	4.2	**5.9**	**6.7**	4.3	3.1	2.6
	MW-18	--	--	**120 D**	**220**	**80**	**420 D**	**290**	**170**	**160**	**180**	**340**	**140**	**180**	**290**	**470**	**110**	**120**	**510**	**170**	**160**	**120**	**50.6**	--	--	**93**	**50.6**	**39**
	MW-20	--	--	170	2.6 J	1.0 U	1.0 U	0.46 U	0.46 U	1.0 UJ	0.92 U	2.0 U	0.92 U	0.46 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	**91 D**	**52**	**61**	NS	3.9 J	47	4.5	**97**	**200**	**89**	NS	**53**	**65**	**86**	**60**	**86**	**70**	**41**	**42**	**75**	**19**	**39**	**18.5**	**46.4**	**11.5**	**38.9**	**21.8**
	PZ-6	**20**	**--**	**44**	**--**	**20**	--	**21**	--	**25**	--	**28**	--	**42**	**38**	**36**	**5.8**	**14**	**11**	**14**	--	**19**	**8.1**	4.6	4.3	1.9	**7.2**	4.7
	PZ-8	**290 D**	**410**	NS	NS	**320**	**260 D**	**220**	**180**	NS	NS	**210**	**180**	NS	**58**	**230**	**220**	NS	**180**	**120**	NS	NS	**185**	NS	NS	NS	NS	**96**
	PZ-11R	**9.0**	4.2	4.5	**8.7**	**6**	3.9	2.9	**5.6**	4.7	2.3	1.9	3.8	**5.3**	3.4	2.0	**5.4**	**5.9**	3.3	2.5	**5.4**	**7.2**	2.5	--	**7.4**	**5.4**	4.0	3.5
	PZ-13R	**5.5**	3.7	3.9	4.3	3.5	3.2 J	2.8	4.1	4.2	2.4	1.0 U	2.3	3.7	2.8	1.7	3.2	4.6	3.1	2.0	4.3	**5.1**	2.4	1.5	3.6	3.3	1.0 U	2.2
	A2-PZ-1	**2100 D**	**2300**	**4100 [4800]**	**2600**	**1500**	**1100**	**2300**	**2300**	**1300**	**1200**	**1300**	**5500**	**2300**	**880**	**480**	**1900**	**420**	**520**	**830**	**600**	**530**	**716**	--	--	**5.2**	**65**	**160**
	A2-PZ-2	**--**	**--**	**740 D**	**360**	**330**	**580 D**	**390**	**380**	**260**	**160**	**100**	**170**	**85**	**270**	**260**	**240 T**	**140**	**360**	**260**	**430**	**230**	**354**	--	--	**23.7**	**19**	**36**
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	0.46 U	--	1.0 UJ	--	1.0 U	--	0.46 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.46 U	0.46 U	NS	NS	1.0 U	0.46 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.46 U	0.46 U	1.0 U	0.46 U	1.0 U	0.46 U	0.46 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	0.48 J	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.46 U [4.6 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	2.5	--	--	--	1.7	--	--	--	0.72 J [0.79 J]	--	--	--	1.0	--	--	--	0.61 J [0.58 J]	--	--	--	0.87 NJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	0.58 J	**--**	1.0 U	--	1.0 U	--	0.46 U	--	1.0 U	--	0.59 J	--	0.46 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		cis-1,2 Dichloroethene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	**40 [39]**	**35**	**34**	**40**	**44**	**20 [20]**	**19 [20]**	**11**	**19 J**	**17 [18]**	**6.2**	**15 [14]**	**23 [23 J]**	**11 [11]**	**8.7 [8.5]**	**12**	**9.1**	**15 [14]**	**18**	**24**	**23 [25]**	**13.6**	**11.1**	**18.4**	**17.2**	**17.7**	**28**
	MW-3	**68**	**40**	**21**	**23 [23]**	**46**	**26**	**16**	**15 [15]**	**28 [29]**	**15**	3.6 [3.9]	**17**	**27**	**15**	**12 F1**	**14 [14]**	**16**	**24**	**13 [14]**	**19**	**22**	**14**	**9**	**14.7**	**18.7**	**15.2**	**15.8**
	MW-18	**--**	**--**	**420 D**	**890**	**420**	**1500 D**	**1700 D**	**1400**	**1700**	**1100**	**1200**	**1000**	**1600**	**1500**	**1900**	**800**	**630**	**670**	**210**	**500**	**780**	**108**	**--**	**--**	**336**	**86**	**171**
	MW-20	**--**	**--**	**1400 J**	**890 D**	1.0 U	1.0 U	1.2	0.93	1.0 UJ	1.6 U	2.0 U	2.4	0.81 U	1.0 U	1.2	1.7	5.0 U	5.0 U	5.0 U	0.92 J [1.1]	5.0 U	1.0 U	1.6	1.1	2.7	2.9	2.9
	PZ-5	**53**	**41**	**41**	NS	**160**	**88**	**13**	**130**	**64**	**44**	NS	**39**	**46**	**47**	**41**	**43**	**57**	**30**	**24**	**41**	**35**	**25.3**	**13.4**	**39.6**	**13.7**	**24**	**19.8**
	PZ-6	**20**	**--**	**58**	**--**	**21**	--	**19**	--	**17**	--	**18**	--	**20**	**21**	**20**	**5.8**	**10**	**9.6**	**9.5**	--	**22**	**20.7**	**6.6**	**30.6**	**7.0**	**9.1**	**8.6**
	PZ-8	**77**	**91**	NS	NS	**56**	**52**	**36**	**26**	NS	NS	**34**	**28**	NS	**14**	**42**	**30**	NS	**34**	**20**	NS	NS	**30.8**	NS	NS	NS	NS	**97**
	PZ-11R	**5.0**	3.3	1.9	2.4	2.8	2.8	2.6	4.3	1.8	1.9	2.3	2.0	1.8	3.3	2.9	2.3	1.7	3.0	1.6	1.8	1.7	1.9	--	2.2	1.7	1.1	2.8
	PZ-13R	2.4	1.1	1.2	1.7	1.9		0.81 U	1.3	1.7	0.81 U	1.0 U	1.2	1.7	0.99 J	1.0 U	1.3	2.0	1.3	1.0 U	1.9	2.2	1.0 U	1.0 U	1.2	1.8	1.0 U	1.0 U
	A2-PZ-1	**27000 D**	**42000 D**	**24000 [28000 D]**	**17000**	**23000**	**17000**	**19000**	**18000**	**24000**	**22000**	**11000**	**35000**	**34000**	**19000**	**7100 F1**	**16000**	**7400**	**17000**	**20000**	**13000**	**12000 J**	**19500**	**--**	**--**	**42.6**	**210**	**455**
	A2-PZ-2	**--**	**--**	**210 D**	**130**	**120**	**190 D**	**150**	**150**	**95**	**100**	**58**	**100**	**69**	**120**	**120**	**110**	**61**	**150**	**120**	**160**	**82**	**188**	--	--	**38.6**	**88.7**	**208**
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	0.81 U	--	1.0 UJ	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.81 U	0.81 U	NS	NS	1.0 U	0.81 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	**--**	**--**	1.0 U	1.0 U	1.0 U	1.0 U	0.81 U	0.81 U	1.0 U	0.81 U	1.0 U	0.81 U	0.81 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0U]	1.0 U	1.0 U	1.0 U
	PZ-18	0.85 J	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.81 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	**13**	**--**	--	--	**14**	--	--	--	**13**	--	--	--	**10**	--	--	--	**7.4**	--	--	--	**6.4**	**7.3**	**6.9**	**11**	**10.8**	**8.2**	**17**
	MW-4	3.3	**--**	--	--	4.6	--	--	--	4.4	--	--	--	4.4 [8.1 UJ]	--	--	--	3.9	--	--	--	5.0	1.3 [1.1]	2.5 [2.3]	3.7	3.4 [3.6]	2.0 [2.1]	1.6 [1.5]
	MW-10	**53**	**--**	--	--	**45**	--	--	--	**35 [34]**	--	--	--	**33**	--	--	--	**29 [29]**	--	--	--	**31**	**25.6**	**23.7**	**44.7**	**45.2**	**21.8**	**25**
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	0.81 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		trans 1,2-Dichloroethene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.3]	1.0 U	1.0 U	1.4	1.0 U	1.0 U	0.90 U	0.90 U	1.0 U	0.90 U [0.90 U]	1.0 U	0.90 U [0.90 U]	0.90 U [0.90 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0U
	MW-3	1.0 U	1.1	1.0 U	1.1 [1]	0.91 J	1.0 U	0.90 U	0.90 U [0.90 U]	1.0 U [1.0 U]	0.90 U	1.0 U [1.0 U]	0.90 U	0.91	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	2.6	5.0 U	4.4	4.5 U	18 U	20 U	9.0 U	20 U	18 U	18 U	4.7	4.9	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.6	1.0 U	1.0 U
	MW-20	--	--	18 J	**22**	**7.1**	1.0 U	4.3	3.9	3.6 J	3.1	4.6	**6.6**	3.1	3.5	3.4	3.8	5.0 U	5.0 U	5.0 U	2.4 [2.4]	5.0 U	1.4	1.3	2.1	1.0 U	1.3	2.1
	PZ-5	1.0 U	3.6 U	4.0 U	NS	4.0 U	1.2	0.90 U	1.1	2.0 U	1.8 U	NS	1.8 U	4.5 U	1.3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.3	1.0 U	1.5	1.0 U	2.7	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	0.90 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	4.5 U	NS	NS	5.0 U	1	4.5 U	4.5 U	NS	NS	5.0 U	4.5 U	NS	1.0 U	1.2	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.5	NS	NS	NS	NS	3.1
	PZ-11R	1.0 U	0.97	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**33**	250 U	250 U **[11]**	250 U	250 U	1.0 U	230 U	230 U	250 U	230 U	250 U	230 U	450 U	**19**	**8.0**	**14**	**14**	100 U	200 U	**16**	**9.0**	**69.0**	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	**--**	--	1.0 U	10 U	10 U	1.0 U	4.5 U	9.0 U	10 U	4.5 U	5.0 U	4.5 U	1.8 U	1.0 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	0.9 U	--	1.0 UJ	--	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.9 U	0.90 U	NS	NS	1.0 U	0.90 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.9 U	0.90 U	1.0 U	0.90 U	1.0 U	0.90 U	0.90 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	2.0	**--**	--	--	1.7	--	--	--	2	--	--	--	1.7	--	--	--	1.4	--	--	--	1.5	1.6	1.3	2.7	2.2	1.4	2.1
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.90 U [9.0 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0]	1.0 U [1.0]	1.0 U [1.0]
	MW-10	3.4	--	--	--	3.2	--	--	--	2.3 [2.4]	--	--	--	2.6	--	--	--	2.0 [2.3]	--	--	--	2.8	2.2	2.2	**5.0**	4.1	2.0	2.2
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	0.9 U	--	1.0 U	--	1.0 U	--	0.90 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Vinyl Chloride																										
NYSDEC TOGS Guidance Value:		2																										
Sampling Date:		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	**3.1 [3]**	1.5	1.7	**4.3**	**3.9**	1.0 U	1.0 U [1.0]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	0.91 [1.0 J]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 UJ	1.0 U [1.0 U]	1.6	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 UJ
	MW-3	**5**	**3.8**	**8.4**	**13 [13]**	**9.1**	**4.3**	**7.8**	2.0 [2.0]	**5.2 [5.4]**	**3.8**	1.0 U [1.0 U]	**5.2**	**2.6**	**3.7**	1.3	**3.4 [3.0]**	1.8	1.5	**3.3 [2.1]**	**3.4**	2.0	**3.0**	**2.5**	**3.7 J**	**3.7**	1.7	1.0 UJ
	MW-18	**--**	**--**	**5.5**	**7.6**	5.0 U	**7.6**	**7.9**	20 U	20 U	10 U	20 U	20 U	20 U	**9.0**	**10**	40 U	20 UJ	20 U	20 U	20 U	20 U	1.0 U	--	--	--	1.0 U	**3 J**
	MW-20	**--**	**--**	63	**680 D**	1.9	1.0 U	0.96 J	1.0 U	1.0 UJ	2.0 U	**2.8**	**3.3**	1.0 U	1.0 U	**2.5**	**3.6**	5.0 U	5.0 U	5.0 U	1.4 [1.1]	5.0 U	1.1	**5.8**	**11 J**	**19.2 J**	**17.5**	**18.8 J**
	PZ-5	1.0 U	4.0 U	4.0 U	NS	**27**	**68**	**2.8**	**2.4**	**5.9**	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ
	PZ-6	1.0 U	--	**4.9**	**--**	**2.1**	--	0.95 J	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.1	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	**2.3 J**
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 UJ
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
	A2-PZ-1	**720 D**	**1800**	**940 [1300 D]**	**830**	**1300**	**840**	**900**	**1000**	**1300**	**900**	**670**	**1300**	**1300**	**960**	**460^**	**850**	**460 J**	**690**	**1400**	**600**	**710**	**1200**	--	--	**5.7**	**14.3**	**18.7 J**
	A2-PZ-2	**--**	**--**	**14**	10 U	10 U	**7.8**	**6.7**	10 U	10 U	5.0 U	5.0 U	5.0 U	**2.3**	10 U	10 U	**4.4**	5.0 UJ	**6.4**	20 U	20 U	8.0 U	**8.6**	**--**	**--**	**2.7**	**7.1**	**17.1 J**
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	**--**	**--**	**9.3**	**6.5**	**13**	1.0 U	**2.1**	**5**	**5.2**	**3.5**	**2.6**	**3.9**	**2.6**	**2.4**	1.7	2.0	1.4	2.0 U	2.0 U	1.8	**3.4**	1.9	1.0 U	**2.3 J [2.1 J]**	**2.5 J**	**1.6**	**4.1 J**
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	**33**	**--**	--	--	**38**	--	--	--	**25**	--	--	--	**14**	--	--	--	**14**	--	--	--	**12**	**18.5**	**10.7**	**16.5**	**16.3**	**7.7**	**8.7 J**
	MW-4	1.4	**--**	--	--	**4.8**	--	--	--	**4.2**	--	--	--	**2.3 [10 UJ]**	--	--	--	**3.6**	--	--	--	**3.1**	1.0 U [1.0 U]	1.1 [**2.1**]	**2.2 J**	**2.4 [2.5]**	1.1 [1.2]	1.0 UJ [1.0 UJ]
	MW-10	**23**	**--**	--	--	**38**	--	--	--	**20 [20]**	--	--	--	**19**	--	--	--	**17 [16 J]**	--	--	--	**23**	**15.6**	**7.9**	**23**	**22.6**	**7.0**	**7.9 J**
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,1,1-Trichloroethane																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U [0.82 U]	0.82 U	1.0 U	0.82 U [0.82 U]	1.0 U	0.82 U [0.82 U]	0.82 U [0.82 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 UT	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.82 U	0.82 U [0.82 U]	1.0 U [1.0 U]	0.82 U	1.0 U [1.0 U]	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	4.1 U	16 U	20 U	8.2 U	20 U	16 U	16 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	16 U	5.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 UJ	1.6 U	2.0 U	1.6 U	0.82 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	3.3 U	4.0 U	NS	4.0 U	1.0 U	0.82 U	0.82 U	2.0 U	1.6 U	NS	1.6 U	4.1 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	0.82 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	4.1 U	NS	NS	5.0 U	1.0 U	4.1 U	4.1 U	NS	NS	5.0 U	4.1 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [1.0 U]	250 U	250 U	1.0 U	210 U	210 U	250 U	210 U	250 U	210 U	410 U	1.0 U	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	4.1 U	8.2 U	1.0 U	4.1 U	5.0 U	4.1 U	1.6 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 UJ	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.82 U	0.82 U	NS	NS	1.0 U	0.87	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.82 U	0.82 U	1.0 U	0.82 U	1.0 U	0.82 U	0.82 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U	--	--	--	1.0 U	--	--	--	1.0 U	3.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.82 U [8.2 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.82 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	0.82 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,1-Dichloroethane																										
NYSDEC TOGS Guidance Value:		5																										
Sampling Date:		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	**5.8 [5.5]**	3.8	4.2	**5.9**	**5.7**	2.1 [2.1]	2.4 [2.4]	1.1	2.1	2.1 [2.0]	0.64 J	1.4 [1.4]	2.8 [3.2]	0.99 J [0.94 J]	0.78 J [0.84 J]	1.4	1.3	2.3 [2.3]	2.7	3.0	3.3 [3.5]	1.9	2.2	3.6	2.4	2.8	3.9
	MW-3	**6.8**	4.4	3.6	4.3 [4.1]	**5.4**	3	2.9	1.8 [2.0]	4.2 [4.4]	2.7	0.45 J [1.0 U]	3.8	4.0	2.6	1.3	2.8 [2.8]	2.8	2.6	1.7 [1.6]	2.8	3.1	2.9	2.3	4.1	3.2	2.2	2.9
	MW-18	--	--	**20 D**	**37**	**18**	**40**	**46**	**42**	**43**	**36**	**36**	**31**	**37**	**37**	**41**	**22 J**	**13 J**	**17 J**	20 U	**13 J**	**18 NJ**	3.2	--	--	**41.3**	**12.5**	**19.2**
	MW-20	--	--	7.6 U	**7.9**	0.41 J	1.0 U	0.38 U	0.7	1.0 UJ	0.76 U	2.0 U	1.2	0.65	0.70 J	1.0 U	1.0	5.0 U	5.0 U	5.0 U	0.81 J [0.85 J]	5.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	1.5 U	4.0 U	NS	4.0 U	1.0 U	0.38 U	0.38 U	2.0 U	0.76 U	NS	0.76 U	1.9 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	0.38 U	--	1.0 U	--	1.0 U	--	0.38 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	4.8	**5.4**	NS	NS	4.2 J	4	3.4	3.4	NS	NS	3.3 J	2.8	NS	1.4	3.7	3.8 J	NS	5.0 U	1.9 J	NS	NS	2.9	NS	NS	NS	NS	2.5
	PZ-11R	1.0 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**1900 D**	**2800**	**1900 [2300 D]**	**1100**	**1300**	**990**	**1200**	**1100**	**1200**	**1300**	**790**	**2200**	**1600**	**890**	**350**	**860**	**370**	**730**	**990**	**600**	**600**	**984**	--	--	**5.3**	**128**	**164**
	A2-PZ-2	**--**	**--**	**12**	10 U	10 U	**6**	**7.2**	**6.6**	3.9 J	3.1	2.3 J	3.8	1.9	**5.4 J**	4.6 J	**5.1**	5.0 U	**7.4**	20 U	**8.3 J**	3.4 NJ	**8.6**	--	--	1.0 U	3.1	4.6
Objective 2	MW-5	0.69 J	**--**	1.0 U	--	1.0 U	--	0.38 U	--	1.0 UJ	--	1.0 U	--	0.38 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	2.4	NS	NS	NS	NS	1.1	1.4	2	NS	NS	1.1	2.6	NS	0.89 J	0.96 J	1.3	NS	0.96 J	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.38 U	0.38 U	1.0 U	0.38 U	1.0 U	0.38 U	0.38 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.38 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	**5.9**	**--**	--	--	4.9	--	--	--	4.7	--	--	--	4.3	--	--	--	4.3	--	--	--	3.9	1.0 U	2.9	**5.0**	4.5	2.8	4.2
	MW-4	0.70 J	**--**	--	--	1.0	--	--	--	0.78 J	--	--	--	0.68 [3.8 U]	--	--	--	0.74 J	--	--	--	0.88 NJ	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	2.6	--	--	--	3.5	--	--	--	2.9 [3.0]	--	--	--	2.3	--	--	--	2.8 [2.8]	--	--	--	3.0	2.0	1.7	2.3	2.4	1.8	2.0
	PZ-7	0.83 J	**--**	0.69 J	--	0.58 J	--	0.57	--	0.45 J	--	1.0 U	--	0.39	--	0.38 J	--	0.43 J	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,2-Dichloroethane																										
NYSDEC TOGS Guidance Value:		**0.6**																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	15 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	0.76 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**5**	250 U	250 U [1.0 U]	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	**1.2**	0.39 J	**1.2**	1.0 U	100 U	200 U	**0.95 J**	**0.96 NJ**	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	**--**	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--		--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,1-Dichloroethene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 UT	1.0 U	1.0 U [1.0 U]	0.29 J	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	0.57 J	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	0.32 J	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.3	5.0 U	2.2	3.7 J	20 U	20 U	10 U	20 U	20 U	20 U	2.7	3.6	40 U	20 U	20 U	20 U	20 U	20 UJ	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	5.8 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	0.39 J	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**45**	250 U	250 U **[23]**	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	**24**	**10**	**18**	**10 J**	100 U	200 U	**15**	**13 J**	**33.1**	**--**	**--**	1.0 U	1.0 U	1.0 U
	A2-PZ-2	**--**	--	1.5	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	0.76 J	5.0 U	5.0 U	20 U	20 U	8.0 U	1.5	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--		--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,1,2,Trichloroethane																										
NYSDEC TOGS Guidance Value:		1																										
Sampling Date:		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	4.6 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**3**	250 U	250 U **[1.7]**	250 U	250 U	1.0 U	250 U	250 U	250 U	250 U	250 U	250 U	500 U	0.28 J	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	**--**	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	**15**	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	**--**	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	**--**	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)																										
NYSDEC TOGS Guidance Value:		**5**																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 UJ	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 UJ [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.2	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 UJ	10 U	20 U	20 U	20 U	2.4	3.4	40 U	20 U	20 U	20 U	20 U	20 UJ	2.9	--	--	**7.3**	3.6	4.5
	MW-20	--	--	6.2 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 UJ	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 U	--	1.0 U		1.0 UJ	--	1.0 U	--	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**1600 EJ**	**1900**	**1300 [1100 D]**	**940**	250 U	**680**	**400**	**850**	**550 J**	**660**	**400**	**1200**	**730 J**	**470**	**180**	**520**	**150**	**200**	**260**	**230 J**	**180 NJ**	**241**	**--**	--	**12.7**	**15**	**12**
	A2-PZ-2	**--**	**--**	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 UJ	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Dichloro-difluoromethane (Freon 12)																												
NYSDEC TOGS Guidance Value:		5																												
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U* [1.0 U*]	1.0 UT	1.0 UJ	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 UJ	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 UJ	0.96 J	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U*	40 U	20 UJ	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 UJ	1.0 U	1.0 U
	MW-20	--	--	14 UJ	5.0 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	4.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	**--**	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 UJ	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U*	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 UJ	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
	A2-PZ-1	**960 E**	**1200**	**830 [740 D]**	250 U	250 UJ	1.0 U	250 U	250 U	**560 J**	**440**	**240 J**	**300**	500 UJ	1.0 U	**160**	**460**	1.0 UJ	100 U	200 UT	1.0 U	**320 J**	1.0 U	**--**	--	1.0 UJ	3.9	**7.3**
	A2-PZ-2	**--**	**--**	1.0 U	10 U	10 UJ	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 UJ	10 U	10 U	1.0 U	5.0 U	5.0 U	20 UT	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.1
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U*	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U*	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 UJ	--	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 UJ	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 UJ]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U*	--	1.0 U	--	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Ethylbenzene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U [0.74 U]	0.74 U	1.0 U	0.74 U [0.74 U]	1.0 U	0.74 U [0.74 U]	0.74 U [0.74 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.74 U	0.74 U [0.74 U]	1.0 U [1.0 U]	0.74 U	1.0 U [1.0 U]	0.74 U	0.74 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	0.91 J	1.4	5.0 U	2.4	3.7 U	15 U	20 U	7.4 U	20 U	15 U	15 U	1.0 U	0.88 J	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	15 U	5.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 UJ	1.5 U	2.0 U	1.5 U	0.74 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	3.8 J	1.7	4.5	4.3	2.0 U	1.5 U	NS	1.5 U	3.7 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	0.74 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	3.7 U	NS	NS	5.0 U	1.0 U	3.7 U	3.7 U	NS	NS	5.0 U	3.7 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [1.0 U]	250 U	250 U	1.0 U	190 U	190 U	250 U	190 U	250 U	190 U	370 U	1.0 U	1.0 U	1.0 U	1.0 U	100 U	200 U	1.0 U	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	--	--	**9.0**	10 U	10 U	1.0 U	3.7 U	7.4 U	10 U	3.7 U	5.0 U	3.7 U	1.5 U	10 U	10 U	2.0	5.0 U	5.0 U	20 U	20 U	8.0 U	1.8	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 UJ	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.74 U	0.74 U	NS	NS	1.0 U	0.74 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.74 U	0.74 U	1.0 U	0.74 U	1.0 U	0.74 U	0.74 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.74 U [7.4 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.74 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	0.74 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Toluene																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U [0.51 U]	0.51 U	1.0 U	0.51 U [0.51 U]	1.0 U	0.51 U [0.51 U]	0.51 U [0.51 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	0.51 U	0.51 U [0.51 U]	1.0 U [1.0 U]	0.51 U	1.0 U [1.0 U]	0.51 U	0.51 U	1.0 U	1.0 UF1	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.9	1.4	5.0 U	1.7	2.6 U	10 U	20 U	5.1 U	20 U	10 U	10 U	0.94 J	1.1	40 U	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	10 U	5.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 UJ	1.0 U	2.0 U	1.0 U	0.51 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	2.0 U	4.0 U	NS	4.0 U	1.0 U	0.51 U	0.51 U	2.0 U	1.0 U	NS	1.0 U	2.6 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	0.51 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	2.6 U	NS	NS	5.0 U	1.0 U	2.6 U	2.6 U	NS	NS	5.0 U	2.6 U	NS	1.0 U	1.0 U	5.0 U	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	**5**	250 U	250 U [4.6]	250 U	250 U	1.0 U	130 U	130 U	250 U	130 U	250 U	130 U	260 U	3.6	1.7	5.0	1.8	100 U	200 U	3.3	2.7	4.9	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	2.6 U	5.1 U	10 U	2.6 U	5.0 U	2.6 U	1.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 UJ	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	0.51 U	0.51 U	NS	NS	1.0 U	0.51 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	0.51 U	0.51 U	1.0 U	0.51 U	1.0 U	0.51 U	0.51 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	0.51 U [5.1 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	0.51 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	0.51 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Xylenes, total																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	2.0 U [2.0U]	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	2.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	2.0 U [2.0 U]	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	MW-3	2.0 U	2.0 U	2.0 U	2.0 U [2.0U]	2.0 U	2.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	2.0 U [2.0 U]	1.0 U	1.0 U	2.0 U	2.0 UF1	2.0 U [2.0 U]	2.0 U	2.0 U	2.0 U [2.0 U]	2.0 U	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	MW-18	--	--	1.3 J	1.0 J	10 U	2.0 U	5.0 U	20 U	20 U	10 U	40 U	20 U	20 U	2.0 U	2.0 U	80 U	40 U	40 U	40 U	40 U	40 U	1.0 U	--	--	3.0 U	3.0 U	3.0 U
	MW-20	--	--	13 U	10 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	4.0 U	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	10 U	10 U	10 U	2.0 U [2.0 U]	10 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	PZ-5	2.0 U	4.0 U	8.0 U	NS	**14**	**5.7**	**18**	**13**	2.0 U	2.0 U	NS	2.0 U	5.0 U	2.0 U	10 U	10 U	10 U	10 U	10 U	2.0 U	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	PZ-6	2.0 U	--	1.0 U	**--**	2.0 U	--	0.74 J	--	1.0 U	--	2.0 U	--	1.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	--	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	PZ-8	2.0 U	5.0 U	NS	NS	10 U	2.0 U	5.0 U	5.0 U	NS	NS	10 U	5.0 U	NS	2.0 U	2.0 U	10 U	NS	10 U	10 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	--	3.0 U	3.0 U	3.0 U	3.0 U
	PZ-13R	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	A2-PZ-1	2.0 U	500 U	500 U [2.0U]	500 U	500 U	2.0 U	250 U	250 U	250 U	250 U	500 U	250 U	250 U	2.0 U	2.0 U	2.0 U	2.0 U	200 U	400 U	2.0 U	2.0 U	1.0 U	--	--	3.0 U	3.0 U	3.0 U
	A2-PZ-2	**--**	**--**	2.0 U	20 U	20 U	2.0 U	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U	2.0 U	20 U	20 U	2.0 U	10 U	10 U	40 U	40 U	16 U	1.0 U	--	--	3.0 U	3.0 U	3.0 U
Objective 2	MW-5	2.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	1.0 UJ	--	2.0 U	--	1.0 U	--	2.0 U	--	2.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	2.0 U	NS	NS	NS	NS	2.0 U	1.0 U	1.0 U	NS	NS	2.0 U	1.0 U	NS	2.0 U	2.0 U	2.0 U	NS	2.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U	2.0 U	2.0 U	1.0 U	3.0 U	3.0 U [3.0 U]	3.0 U	3.0 U	3.0 U
	PZ-18	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	2.0 U	--	--	--	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	MW-4	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	2.0 U	--	--	--	2.0 U	1.0 U [1.0 U]	3.0 U [3.0 U]	3.0 U	3.0 U [3.0 U]	3.0 U [3.0 U]	3.0 U [3.0 U]
	MW-10	2.0 U	--	--	--	2.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	2.0 U [2.0 U]	--	--	--	2.0 U	1.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
	PZ-7	2.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	1.0 U	--	2.0 U	--	1.0 U	--	2.0 U	--	2.0 U	--	--	--	--	--	--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Acetone																										
NYSDEC TOGS Guidance Value:		50																										
Sampling Date:		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	10 U [10U]	10 U	10 U	8.8 J	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]	10 U	10 U [10 U]	10 U [10 U]	10 U [10 U]	10 U [10 U]	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
	MW-3	10 U	10 U	10 U	1.0 U [1.0 U]	10 U	10 U	10 U	10 U [10 U]	10 U [10 U]	10 U	10 U [10 U]	10 U	10 U	10 U	10 U	10 U [10 U]	10 U	10 U	10 U [10 U]	3.8 J	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ
	MW-18	--	--	10 U	9.1 J	50 U	10 U	50 U	200 U	200 U	100 U	200 U	200 U	200 U	10 U	10 U	400 U	200 U	200 U	200 U	200 U	200 UJ	5.0 U	--	--	5.0 U	5.0 U	5.0 U
	MW-20	--	--	200	**400**	**78**	10 U	4.5 J	8.7 J	10 UJ	20 U	20 U	20 U	10 U	10 U	10 U	4.7 J	50 U	50 U	50 U	5.2 J [3.1 J]	50 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	PZ-5	3.1 J	16	40 U	NS	40 U	10 U	6.1 J	3.1 J	20 U	6.6 J	NS	20 U	50 U	10 U	50 U	50 U	50 U	50 U	50 U	10 U	10 U	41	40.5	**58**	**191**	**12.7**	**12.7**
	PZ-6	10 U	--	3.8 J	--	10 U	--	10 U	--	10 U	--	10 U	--	10 U	10 U	20 U	10 U	10 U	5.5 J	3.4 J	--	10 U	15.5	39.1	5.0 U	41.2	5.0 U	5.0 U
	PZ-8	10 U	50 U	NS	NS	50 U	10 U	50 U	50 U	NS	NS	50 U	50 U	NS	3.0	3.8 J	50 U	NS	50 U	50 U	NS	NS	**13.6**	NS	NS	NS	NS	1.0 U
	PZ-11R	10 U	10 U	10 U	9.4 J	10 U	10 U	3.1 J	10 U	17	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	5.0 U	--	5.0 U	5.0J	5.0 U	5.0 U
	PZ-13R	10 U	10 U	10 U	9.3 J	10 U	10 U	3.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
	A2-PZ-1	9.5 J	2500 U	2500 U [14]	2500 U	2500 U	10 U	2500 U	2500 U	2500 U	2500 U	2500 U	2500 U	5000 U	10 U	10 U	6.9 J	10 U	1000 U	2000 U	3.9 J	10 UJ	5.0 U	--	--	5.0 UJ	5.0 U	5.0 U
	A2-PZ-2	--	--	10 U	100 U	100 U	10 U	50 U	100 U	100 U	50 U	50 U	50 U	20 U	100 U	100 U	10 U	50 U	50 U	200 U	200 U	80 UJ	5.0 U	--	--	5.0 UJ	5.0 U	5.0 U
Objective 2	MW-5	10 U	--	10 U	--	10 U	--	6.8 J	--	4.5 J	--	10 U	--	10 U	--	10 U	--	10 U	--	--	--	--		--	--	--	--	--
	MW-13S	10 U	NS	NS	NS	NS	10 U	10 U	10 U	NS	NS	10 U	10 U	NS	10 U	10 U	10 U	NS	10 U	--	--	--		--	--	--	--	--
	MW-14BR	10 U	--	--	--	16	--	--	--	19	--	--	--	18	--	--	--	15	--	--	--	--		--	--	--	--	--
	MW-21	--	--	10 U	8.8 J	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24	10 U	10 U	20 U	20 U	10 U	10 UJ	5.0 U	5.0 U	5.0 U [5.3 J]	5.0 U	5.0 U	5.0 U
	PZ-18	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	--		--	--	--	--	--
	PZ-26	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	--		--	--	--	--	--
Objective 3	MW-2	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
	MW-4	10 U	--	--	--	10 U	--	--	--	10 U	--	--	--	10 U [100 U]	--	--	--	10 U	--	--	--	10 U	5.0 U [5.0 U]	5.0 U [5.0 U]	5.0 U	5.0 UJ [5.3 J]	5.0 U [5.0]	5.0 U [5.0]
	MW-10	10 U	--	--	--	10 U	--	--	--	10 U [10 U]	--	--	--	10 U	--	--	--	10 U [10 U]	--	--	--	10 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
	PZ-7	10 U	--	4.2 J	--	10 U	--	10 U	--	10 U	--	5.5 J	--	10 U	--	7.3 J	--	10 U	--	--	--	--		--	--	--	--	--

See last page for notes.

Table 4-2
Groundwater Monitoring Data - September 2011 through August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:		Methylene Chloride																										
NYSDEC TOGS Guidance Value:		5																										
	Sampling Date:	Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	10 U [10 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U [10 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-18	--	--	1.0 U	1.0 U	5.0 U	1.0 U	5.0 U	20 U	20 U	10 U	20 U	20 U	20 U	1.0 U	1.0 U	**20 J**	20 U	20 U	20 U	20 U	20 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	MW-20	--	--	8.8 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	5.0 U	1.0 U [1.0 U]	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	1.0 U	4.0 U	4.0 U	NS	4.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	NS	2.0 U	5.0 U	1.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-6	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	1.0 U	2.0 U	0.56 J	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	1.0 U	5.0 U	NS	NS	5.0 U	1.0 U	5.0 U	5.0 U	NS	NS	5.0 U	5.0 U	NS	1.0 U	1.0 U	3.1 J	NS	5.0 U	5.0 U	NS	NS	1.0 U	NS	NS	NS	NS	1.0 U
	PZ-11R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	1.0 U	250 U	250 U [14]	250 U	250 U	110 JB	250 U	250 U	250 U	250 U	250 U	250 U	500 U	1.0 U	0.85 J	1.1	1.0 U	100 U	200 U	0.50 J	1.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
	A2-PZ-2	--	--	1.0 U	10 U	10 U	1.0 U	5.0 U	10 U	10 U	5.0 U	5.0 U	5.0 U	2.0 U	10 U	10 U	1.0 U	5.0 U	5.0 U	20 U	20 U	8.0 U	1.0 U	--	--	1.0 U	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 UJ	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-13S	1.0 U	NS	NS	NS	NS	1.0 U	1.0 U	1.0 U	NS	NS	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	--	--	--	--	--	--	--	--	--
	MW-14BR	0.57 J	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U [1.0 U]	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
	PZ-26	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [10 U]	--	--	--	1.0 U	--	--	--	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U	1.0 U [1.0 U]	1.0 U [1.0 U]	1.0 U [1.0 U]
	MW-10	1.0 U	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	--	--	--	1.0 U [1.0 U]	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	--	0.55 J	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	1.0 U	--	--	--	--	--	--	--	--		--

Notes:
1. B = The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspected.
2. D = Diluted sample result within calibration range
3. E = Analyte exceeded calibration range.
4. F1 or T or * = MS and/or MSD Recovery or LCS or LCSD is outside acceptance limits.
5. ^ = ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
6. J = Indicates an estimated value.
7. NYSDEC TOGS = New York State Department of Environmental Conservation Technical and Operational Guidance Series
8. U = The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.
9. "--" indicates not measured
10. "NS" indicates insufficient groundwater was available for sampling
11. "Green font" indicates sampled as part of the pilot test; the pilot test sampling was performed post-injection on 4/24/12 and 7/12/12.
12. **Bold** indicates concentration above NYSDEC TOGS Value
13. All units in micrograms per liter (µg/l)
14. [ ] = Field duplicate results
15. Potential exists that an air bubble in the PZ-6 sampling vial (collected July 2015) resulted in underestimated VOC concentrations (see Q3 2015 data summary).
16. NJ = The analysis indicates the presence of a compound that has been "tentatively identified"; the associated numerical value represents its approximate concentration.
17. Per NYSDEC approval, A1-PZ-2 was removed from the sampling program.
18. Wells A2-PZ-1, A2-PZ-2, and MW-18 were replaced following the former northern perimeter ditch excavation activities that were completed in the fall of 2019.

TETRA TECH

Table 4-3
Test Pit Piezometer Monitoring Data - May and August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:	Tetrachloroethene		Trichloroethene		cis-1,2 Dichloroethene		trans 1,2-Dichloroethene		Vinyl Chloride		1,1,1-Trichloroethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		1,1,2,Trichloroethane		1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113)		Dichloro-difluoromethane (Freon 12)		Ethylbenzene		Toluene		Xylenes, total		Acetone		Methylene Chloride	
NYSDEC TOGS Guidance Value:	**5**		**5**		**5**		**5**		**2**		**5**		**5**		**0.6**		**5**		**1**		**5**		**5**		**5**		**5**		**5**		**50**		**5**	
Sampling Date:	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21	May-21	Aug-21
TP1-PZ-1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U
TP1-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U
TP1-PZ-3	**34.4**	**42.6**	**81.4**	**138**	**2090**	**2930**	**6.5**	**7.2**	**5.7**	**6.1**	1.0 U	1.0 U	**207**	**235**	1.0 U	1.0 U	**18.8**	**20.3**	1.0 U	1.0 U	1.0 U	**5.2**	**5.0**	**10.3**	2.1	3.3	1.8	2.4	1.8	2.4	5.0 U	5.0 U	1.0 U	1.0 U
TP1-PZ-4	2.0	3.5	3.7	**24.7**	**130**	**2180**	1.0 U	3.3	**24.2**	**31.1**	1.0 U	1.0 U	**24.8**	**192**	1.0 U	1.0 U	1.4	2.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.3	1.0 U	2.3	5.0 U	5.0 U	1.0 U	1.0 U
TP2-PZ-1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U
TP2-PZ-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U
TP2-PZ-3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.1	5.0 U	1.0 U	1.0 U
TP2-PZ-4	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	1.0 U	1.0 U	NS	1.0 U	NS	1.0 U	NS	1.0 U	NS	5.0 U	1.0 U	1.0 U

Notes:
1. J = Indicates an estimated value.
2. NYSDEC TOGS = New York State Department of Environmental Conservation Technical and Operational Guidance Series
3. U = The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.
4. **Bold** indicates concentration above NYSDEC TOGS Value
5. All units in micrograms per liter (µg/l)

Table 4-4 Catch Basin Monitoring Data - August 2021
Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Compound:	Tetrachloroethene	Trichloroethene	cis-1,2 Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichlorobenzene	1,1-Dichloroethene	1,1,2,Trichloroethane	Bromoform	Chloroform	Ethylbenzene	Toluene	Xylenes, total
SPDES Effluent Limitations:	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**10**	**5**	**5**	**15**
Sampling Date:	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21	Aug-21
CB-1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.8	1.0 U	1.0 U	3.0 U
CB-2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U
CB-3	1.1	1.3	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U

Notes:
1. J = Indicates an estimated value.
2. U = The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.
3. All units in micrograms per liter (µg/l)

TETRA TECH

Table 4-5
Summary of Mann-Kendall Trend Analysis of Groundwater Analytical Data
Quarterly Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Monitoring Well Objective	Location ID[A]	Analyte	Cleanup Goal (µg/L)	M-K?	Data Range							Mann-Kendall Analysis[B]		Sudden Increase Evaluation			
					Start Date	End Date	Min[B] (µg/L)	Max[B] (µg/L)	Historic Maximum[C] (µg/L)	Most recent result[D] (µg/L)	Comparison of the most recent data with Historic Maximum[D]	p Value	Data Trend[D]	Mean[B]	Std Dev[B]	Mean[B] +3xSTDV[B]	August 2021 Results
Objective 1	MW-1	cis-1,2-Dichloroethene	5	Y	06/20/96	08/11/21	11.1	28	390	28	Less than	0.2740	No Trend	19	5.5	36	No Sudden Increase
	MW-1	Tetrachloroethene	5	Y	06/20/96	08/11/21	18.2	50.2	11000	18.2	Less than	0.0540	No Trend	30	10	61	No Sudden Increase
	MW-1	Trichloroethene	5	Y	06/20/96	08/11/21	6.2	14	830	8.6	Less than	0.1685	No Trend	10	3.2	20	No Sudden Increase
	MW-3	cis-1,2-Dichloroethene	5	Y	08/22/96	08/11/21	8.5	22	510	15.8	Less than	0.3170	No Trend	16	3.8	27	No Sudden Increase
	MW-3	Tetrachloroethene	5	Y	08/22/96	08/11/21	1	19	73	2.7	Less than	0.0071	Decreasing Trend	6	6.3	25	No Sudden Increase
	MW-3	Trichloroethene	5	Y	05/19/98	08/11/21	2.6	12	430	2.6	Less than	0.0890	No Trend	6.2	3.3	16	No Sudden Increase
	MW-3	Vinyl Chloride	2	Y	08/22/96	08/11/21	1.7	3.7	94	1.7	Less than	0.4770	No Trend	2.9	0.8	5.2	No Sudden Increase
	MW-18	1,1-Dichloroethane	5	Y	07/08/20	08/11/21	3.2	41.3	46	19.2	Less than	0.2740	No Trend	18	13	56	No Sudden Increase
	MW-18	cis-1,2-Dichloroethene	5	Y	07/08/20	08/11/21	86	780	1900	171	Less than	0.0310	Decreasing Trend	313	251	1066	No Sudden Increase
	MW-18	Tetrachloroethene	5	Y	07/08/20	08/11/21	75.7	106	480	73	Less than	0.0890	No Trend	91	21	155	No Sudden Increase
	MW-18	Trichloroethene	5	Y	07/08/20	08/11/21	39	93	510	39	Less than	0.0002	Decreasing Trend	61	28	146	No Sudden Increase
	MW-18	Vinyl Chloride	2	Y	07/08/20	08/11/21	0.9	10	10	3	Less than	0.1135	No Trend	12	8.8	38	No Sudden Increase
	MW-20	Vinyl Chloride	2	Y	04/11/12	08/11/21	1.10	19.2	680	18.8	Less than	0.0019	Increasing Trend	9.3	7.5	31.7	No Sudden Increase
	PZ-5	cis-1,2-Dichloroethene	5	Y	06/20/96	08/11/21	13.4	41	500	19.8	Less than	0.1135	No Trend	26	10	57	No Sudden Increase
	PZ-5	Tetrachloroethene	5	Y	06/20/96	08/11/21	11	195	350	97.3	Less than	0.3600	No Trend	109	64	301	No Sudden Increase
	PZ-5	Trichloroethene	5	Y	06/20/96	08/11/21	11.5	75	330	21.8	Less than	0.0890	No Trend	35	20	93	No Sudden Increase
	PZ-6	cis-1,2-Dichloroethene	5	Y	02/09/95	08/11/21	6.6	30.6	97	9.1	Less than	0.2365	No Trend	14	9.0	41	No Sudden Increase
	PZ-6	Tetrachloroethene	5	Y	02/09/95	08/11/21	1.8	33	350	2.3	Less than	0.0235	Decreasing Trend	11	15	55	No Sudden Increase
	PZ-6	Trichloroethene	5	Y	02/09/95	08/11/21	1.9	19	140	4.7	Less than	0.0160	Decreasing Trend	8	6	25	No Sudden Increase
	A2-PZ-1	1,1-Dichloroethane	5	Y	07/08/20	08/11/21	5.3	164	2800	164	Less than	0.1135	No Trend	99	83	349	No Sudden Increase
	A2-PZ-1	1,1,2-trichloro-1,2,2-trifluoro	5	Y	07/08/20	08/11/21	12.7	260	1900	12	Less than	0.0540	No Trend	156	114	497	No Sudden Increase
	A2-PZ-1	cis-1,2-Dichloroethene	5	Y	07/08/20	08/11/21	42.6	210	42000	455	Less than	0.0890	No Trend	126	118	481	No Sudden Increase
	A2-PZ-1	Dichlorodifluoromethane	5	Y	07/08/20	08/11/21	0.90	320	1200	7.3	Less than	0.4520	No Trend	101	145	535	No Sudden Increase
	A2-PZ-1	Trichloroethene	5	Y	07/08/20	08/11/21	5.2	65	5500	160	Less than	0.1990	No Trend	35	42	162	No Sudden Increase
	A2-PZ-1	Vinyl Chloride	2	Y	07/08/20	08/11/21	5.7	1400	1800	18.7	Less than	0.1990	No Trend	564	583	2312	No Sudden Increase
	A2-PZ-2	1,1-Dichloroethane	5	Y	07/08/20	08/11/21	3.1	8.3	12	4.6	Less than	0.1990	No Trend	3.9	1.1	7	No Sudden Increase
	A2-PZ-2	cis-1,2-Dichloroethene	5	Y	07/08/20	08/11/21	38.6	88.7	290	208	Less than	0.5480	No Trend	64	35	170	Sudden Increase
	A2-PZ-2	Tetrachloroethene	5	Y	07/08/20	08/11/21	10.4	23.3	2300	13	Less than	0.1990	No Trend	16	7	36	No Sudden Increase
	A2-PZ-2	Trichloroethene	5	Y	07/08/20	08/11/21	19	23.7	740	36	Less than	0.1380	No Trend	21	3	31	Sudden Increase
	A2-PZ-2	Vinyl Chloride	2	Y	07/08/20	08/11/21	2.7	6.4	14	17.1	Greater than	0.2740	No Trend	11.2	6.3	30	No Sudden Increase
Objective 2	MW-21	Vinyl Chloride	2	Y	04/11/12	08/11/21	1.6	4.1	13	4.1	Less than	0.1685	No Trend	2.4	0.89	5.1	No Sudden Increase
Objective 3	MW-2	1,1-Dichloroethane	5	Y	08/22/96	08/11/21	0.9	5	87	4.2	Less than	0.1135	No Trend	3.7	1.3	7.5	No Sudden Increase
	MW-2	cis-1,2-Dichloroethene	5	Y	08/22/96	08/11/21	6.4	17	390	17	Less than	0.4520	No Trend	10	3.5	20	No Sudden Increase
	MW-2	Vinyl Chloride	2	Y	08/22/96	08/11/21	7.7	25	78	8.7	Less than	0.0116	Decreasing Trend	14	5	30	No Sudden Increase
	MW-4	cis-1,2-Dichloroethene	5	Y	08/22/96	08/11/21	1.3	5	7.4	1.6	Less than	0.0116	Decreasing Trend	3.2	1.4	7.3	No Sudden Increase
	MW-4	Vinyl Chloride	2	Y	08/22/96	08/11/21	0.9	4.2	6.4	1.0 U	Less than	0.0019	Decreasing Trend	2.3	1.2	5.8	No Sudden Increase
	MW-10	1,1-Dichloroethane	5	Y	06/20/96	08/11/21	1.7	3	280	2.0	Less than	0.0540	No Trend	2.3	0.5	3.8	No Sudden Increase
	MW-10	1,1-Dichloroethene	5	Y	06/20/96	08/11/21	0.0	0.0	4	1.0 U	Less than	0.5480	No Trend	0.9	1.2E-16	0.9	No Sudden Increase
	MW-10	cis-1,2-Dichloroethene	5	Y	06/20/96	08/11/21	21.8	44.7	1700	25	Less than	0.0540	No Trend	30	7.1	51	No Sudden Increase
	MW-10	Vinyl Chloride	2	Y	06/20/96	08/11/21	7.0	23	320	7.9	Less than	0.1135	No Trend	16	6.5	35	No Sudden Increase

Notes:

[A] Locations were excluded if: more than half of the last nine rounds were non-detect or if there were no exceedances in the last nine rounds.

[B] Indicates a calculation based on the nine most recent rounds of data.

[C] Historical maximum provided is based on all available data (excluding the most recent round).

[D] For non-detect results, 90% of the reportling limit (RL) is used for calculations. However, the "greater than" distinction for the Historic Maximum comparison is only applied if the most recent result is above the reporting limit (i.e. a "non-detect" with higher reporting limit will not trigger a "greater than" result as the value is not representative of a detected contaminant concentration). Similarly, a statistically-significant increasing or decreasing trend is only shown if detections (not modified reporting limits) contribute to the trend's statistical significance (i.e. an "increasing trend" is not representative of groundwater conditions if the trend is caused by non-detect results with elevated reporting limits).

Abbreviations:

J	Indicates an estimated value.
ND	Indicates a non-detect result with an elevated reporting limit for the most recent sampling event that would cause mis-identification of new Historical Maxima and/or statistically-significant trends. See Note[D] above.
NJ	The analysis indicates the presence of a compound that has been "tentatively identified"; the associated numerical value represents its approximate concentration.
U	The compound was analyzed for but not detected. The associated value is the compound Reporting Limit.

Table 4-6
Groundwater Sampling Field Parameters - September 2011 through August 2021
Groundwater Summary Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	pH (s.u.)																										
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	6.92	7.52	7.20	7.36	7.03	7.19	6.92	7.08	7.10	7.30	7.37	7.24	7.18	7.35	7.51	7.06	6.96	7.78	7.39	7.55	7.46	5.67	7.82***	7.33	7.38	7.13	7.25
	MW-3	6.93	7.57	7.27	7.33	7.15	7.38	6.98	6.95	7.15	7.35	7.14	6.74	7.25	7.34	7.19	7.10	6.92	7.47	7.52	7.48	7.37	5.93	7.70	7.38	7.34	7.37	7.37
	MW-18	--	--	7.51	7.41	7.5	7.17	7.53	7.32	7.59	7.57	7.30	7.91	7.62	7.63	7.53	7.41	7.49	7.73	7.54	7.56	7.76	6.98	--	--	7.25	7.59	7.21
	MW-20	--	--	--	6.24	6.85	6.78	6.82	6.75	7.3	6.87	6.75	7.1	7.10	6.95	7.03	6.98	6.95	7.11	7.20	7.12	7.04	6.91	7.32	6.94	6.86	7.22	6.76
	PZ-5	7.79	8.04	7.79	--	7.59	7.85	8.44	7.5	7.59	7.72	NA	7.64	7.89	7.77	8.03	NA	NA	NA	NA	NA	NA	6.9	8.07	7.83	7.64	7.64	--
	PZ-6	7.11	--	7.62	--	7.82	--	8.1	--	7.15	--	7.81	--	7.95	7.90	7.82	NA	NA	NA	NA	--	NA	6.7	8.34	8.08	7.85	--	--
	PZ-8	6.76	7.43	--	--	NA	7.16	NA	7.09	NA	NA	7.30	7.28	NA	NA	7.18	NA	NA	NA	NA	NA	NA	5.51	NA***	7.57	--	--	7.32
	PZ-11R	7.24	7.56	7.07	6.93	7.07	6.51	7.12	7.54	7.18	7.11	6.78	7.49	7.14	7.03	7.21	6.92	7.18	7.36	7.50	6.77	7.05	6.33	7.52***	7.3	7.29	7.13	7.29
	PZ-13R	6.70	7.60	6.85	6.67	6.85	6.79	7.19	6.79	8.18	7.00	6.93	7.89	7.14	7.45	7.08	6.84	6.95	7.46	7.24	7.04	7.14	6.11	7.48	6.25	7.14	7.04	7.19
	A2-PZ-1	6.90	7.42	7.12	7.25	6.95	7.07	7.34	7.10	7.09	7.22	6.99	6.73	7.11	7.21	7.16	7.02	6.94	7.47	7.60	7.45	7.17	6.53	--	--	7.78	7.74	7.24
	A2-PZ-2	--	--	--	7.18	6.94	7.24	7.38	7.15	7.14	7.14	7.12	6.53	7.13	7.32	7.19	7.11	7.14	7.47	7.63	7.59	7.49	5.3	--	--	7.56	7.49	7.25
Objective 2	MW-5	6.81	--	6.91	--	7.17	--	7.29	--	7.42	--	7.36	--	7.52	--	7.44	--	7.36	--	--	--	--	--	7.59***	--	--	--	--
	MW-13S	6.97	--	--	--	--	6.58	7.31	7.05	NA	NA	7.30	7.26	NA	7.49	7.35	7.52	NA	7.42	--	--	--	--	--	--	--	--	--
	MW-14BR	9.67	--	--	--	7.64	--	--	--	7.25	--	--	--	7.42	--	--	--	7.65	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	7.35	7.13	7.23	7.55	7.81	7.38	7.66	7.50	7.48	7.62	7.63	7.72	7.73	7.82	7.50	7.76	8.06	7.65	7.54	7.51	8.14***	7.37	7.49	7.57	7.54
	PZ-18	6.78	--	--	--	6.9	--	--	--	6.99	--	--	--	7.23	--	--	--	7.00	--	--	--	--	--	--	--	--	--	--
	PZ-26	7.72	--	--	--	7.66	--	--	--	8.11	--	--	--	8.21	--	--	--	7.79	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	7.29	--	--	--	7.3	--	--	--	7.61	--	--	--	7.70	--	--	--	7.41	--	--	--	7.49	7.23	7.7	7.25	7.50	7.28	7.13
	MW-4	6.83	--	--	--	7.11	--	--	--	7.26	--	--	--	7.37	--	--	--	7.02	--	--	--	7.36	6.38	7.67	7.29	7.46	7.2	7.07
	MW-10	7.30	--	--	--	7.37	--	--	--	7.44	--	--	--	7.46	--	--	--	7.30	--	--	--	7.50	7.84	7.86	7.29	7.26	7.28	7.31
	PZ-7	7.18	--	7.21	--	7.13	--	7.27	--	7.07	--	7.00	--	7.69	--	7.47	--	NA	--	--	--	--	--	--	--	--	--	--
Others	MW-19	--	--	--	7.63	--	--	--	--	7.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PZ-2	--	--	--	7.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.67***	--	--	--	--
	PZ-27	6.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A1-PZ-1	--	--	--	7.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A2-PZ-7	6.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	OW-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.34***	--	--	--	--
	MW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.65***	--	--	--	--
	MW-F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.85***	--	--	--	--
	MW-13BR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.93***	--	--	--	--

See last page for notes.

Table 4-6
Groundwater Sampling Field Parameters - September 2011 through August 2021
Groundwater Summary Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	Specific Conductivity (mS/cm)																										
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	1.764	1.123	1.816	1.625	1.173	0.658	1.217	0.868	0.983	0.722	0.740	0.780	1.220	0.780	0.750	0.870	0.910	0.81	1.47	1.62	1.23	1.05	1.488***	2.574	1.568	3.340	0.040
	MW-3	1.966	1.435	2.514	1.919	1.299	0.829	3.563	1.182	1.455	1.031	0.530	0.007	1.790	1.730	1.600	1.940	1.320	0.94	3.38	2.06	1.13	1.98	3.484	2.635	2.115	0.025	3.880
	MW-18	--	--	0.836	0.696	0.759	0.689	0.966	0.929	0.736	0.570	0.810	0.780	0.770	0.655	0.720	0.444	0.490	0.497	0.389	1.08	0.79	0.468	--	--	3.447	0.655	0.580
	MW-20	--	--	--	8.13	5.737	5.153	6.672	6.010	5.082	4.258	9.130	9.060	7.740	7.360	9.130	8.420	3.240	7.69	9.05	8.98	8.13	9.16	9.530	9.325	9.530	10.570	11.530
	PZ-5	1.372	1.193	1.527	--	1.533	1.364	0.815	1.745	1.832	1.634	NA	1.800	1.740	1.590	1.020	NA	NA	NA	NA	NA	NA	1.528	1.570	1.608	1.521	1.670	--
	PZ-6	1.666	--	1.445	--	1.774	--	1.573	--	1.727	--	1.720	--	1.800	1.630	0.990	NA	NA	NA	NA	--	NA	1.785	1.594	--	1.485	--	--
	PZ-8	1.316	1.021	--	--	NA	0.942	NA	1.380	NA	NA	0.900	0.522	NA	NA	0.550	NA	NA	NA	NA	NA	NA	0.881	NA***	--	--	--	3.8
	PZ-11R	3.222	1.398	4.986	3.639	2.867	2.846	6.129	4.125	3.180	3.200	8.940	4.930	3.620	5.110	8.880	5.630	4.050	4.82	7.94	7.15	4.71	4.457	0.0083***	5.670	5.070	8.610	4.960
	PZ-13R	7.593	2.762	5.503	7.164	6.601	4.704	6.226	9.009	6.874	4.840	12.700	9.350	7.320	6.720	14.460	9.540	8.640	8.30	16.01	10.09	9.57	9.06	10.06	9.937	9.530	11.520	7.520
	A2-PZ-1	1.271	0.709	1.247	1.22	1.097	0.769	1.186	1.097	0.931	0.638	1.180	1.450	1.380	1.020	1.060	1.120	1.110	1.04	0.97	1.07	0.94	1.18	--	--	0.490	1.000	0.980
	A2-PZ-2	--	--	--	1.738	1.134	0.826	1.015	1.081	1.023	0.699	0.770	1.140	1.200	0.990	1.190	1.230	1.110	1.13	1.21	1.54	1.14	1.05	--	--	0.592	0.910	0.980
Objective 2	MW-5	9.422	--	8.55	--	5.004	--	5.690	--	6.862	--	7.060	--	5.890	--	3.510	--	5.060	--	--	--	--	--	0.598***	--	--	--	--
	MW-13S	1.756	--	--	--	--	0.885	1.417	0.878	NA	NA	1.130	1.180	NA	0.920	0.744	0.403	NA	0.85	--	--	--	--	--	--	--	--	--	--
	MW-14BR	8.862	--	--	--	11.57	--	--	--	8.825	--	--	--	10.790	--	--	--	8.940	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	9.773	8.36	12.15	5.203	4.104	4.588	5.891	4.514	8.650	6.450	5.760	4.570	5.310	4.760	5.340	3.01	2.81	2.15	5.63	2.145	0.601***	5.411	6.300	8.420	7.650
	PZ-18	6.487	--	--	--	3.062	--	--	--	0.102	--	--	--	3.41	--	--	--	3.770	--	--	--	--	--	--	--	--	--	--
	PZ-26	0.636	--	--	--	0.67	--	--	--	0.599	--	--	--	0.740	--	--	--	0.740	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	1.831	--	--	--	2.003	--	--	--	1.715	--	--	--	1.870	--	--	--	2.360	--	--	--	2.34	3.391	5.130	6.500	4.300	9.960	7.260
	MW-4	1.729	--	--	--	2.164	--	--	--	1.544	--	--	--	2.510	--	--	--	2.580	--	--	--	2.90	1.705	3.100	1.864	2.475	0.032	2.940
	MW-10	1.751	--	--	--	2.722	--	--	--	2.634	--	--	--	2.980	--	--	--	2.920	--	--	--	2.92	6.91	5.630	8.284	8.390	12.340	9.980
	PZ-7	1.389	--	1.063	--	1.22	--	1.091	--	1.019	--	1.030	--	0.930	--	0.980	--	NA	--	--	--	--	--	--	--	--	--	--
Others	MW-19	--	--	--	0.984	--	--	--	--	0.732	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PZ-2	--	--	--	2.806	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0029***	--	--	--	--
	PZ-27	1.082	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A1-PZ-1	--	--	--	1.362	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A2-PZ-7	0.978	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	OW-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.896***	--	--	--	--
	MW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.831***	--	--	--	--
	MW-F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.720***	--	--	--	--
	MW-13BR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.865***	--	--	--	--

See last page for notes.

Table 4-6
Groundwater Sampling Field Parameters - September 2011 through August 2021
Groundwater Summary Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	DO (mg/L)																										
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	0.24	2.90	1.69	0.52	0.80	3.25	4.30	3.59	1.06	3.91	8.52	2.49	0.27	5.78	6.90	2.02	1.74	8.07	7.58	4.43	6.06	5.17	6.13***	1.38	0.37	2.16	9.14
	MW-3	0.71	1.01	1.76	0.46	0.68	1.06	2.71	0.86	0.33	0.39	6.13	1.14	0.14	0.45	3.35	0.53	0.18	3.20	3.57	1.75	5.71	2.04	2.33	1.72	1.78	10.06	1.39
	MW-18	--	--	0.82	1.03	0.2	0.16	4.4	0.64	0.33	1.04	0.75	0.21	0.16	2.80	0.33	2.30[A]	0.75	0.00	0.70	0.53	0.53	5.62	--	--	3.18	2.65	2.69
	MW-20	--	--	--	0.55	0.62	4.5	1.28	1.95	0.21	2.1	0.78	0.27	3.62	1.06	0.61	1.99[A]	0.30	0.42	0.70	0.25	0.93	1.37	0.69	0.58	0.31	0.03	0.34
	PZ-5	0.85	2.40	2.59	--	0.68	0.6	2.45	1.14	2.15	2.38	NA	4.8	3.57**	3.24	1.60	NA	NA	1.89	NA	NA	NA	3.35	4.3	1.20	2.64	2.66	--
	PZ-6	1.70	--	1.55	--	0.89	--	NA	--	2.39	--	0.52	--	2.28**	4.57**	2.51	NA	NA	2.75	NA	--	NA	1.88	4.05	3.24	0.98	--	--
	PZ-8	0.89	1.58	--	--	NA	1.48	NA	4.01	NA	NA	2.61	6.19	NA	NA	3.58	NA	NA	5.25	NA	NA	NA	3.5	NA***	7.35	--	--	--
	PZ-11R	0.60	4.34	7.45	5.19	2.91	3.31	8.82	2.30	3.94	4.31	7.48	6.27	1.92**	3.40**	8.92	0.84**	1.78	4.43***	2.64***	3.88***	3.48***	7.06	5.47***	3.78	2.83	5.97	1.72
	PZ-13R	0.04	2.48	3.44	2.09	0.80	2.83	3.52	2.89	2.34	4.58	2.53	3.85	4.40**	5.72**	9.02	1.07**	2.81	4.33***	3.16***	1.37***	3.65***	5.26	3.6	1.27	1.97	2.63	1.1
	A2-PZ-1	0.43	1.07	0.86	0.65	0.80	5.4	1.09	0.09	0.49	0.08	0.69	0.02	1.97	0.70	0.10	0.09	0.13	0.47	0.30	0.43	0.86	1.31	--	--	2.30	1.42	0.92
	A2-PZ-2	--	--	--	1.10	1.40	0.87	2.6	1.07	2.17	1.52	8.14	2.33	2.87**	6.45**	2.28	1.34	1.32	3.47	4.16	1.49	2.45	1.97	--	--	2.21	2.7	2.21
Objective 2	MW-5	0.03	--	1.04	--	0.22	--	3.67	--	1.54	--	1.73	--	1.18	--	1.27	--	1.45	--	--	--	--	--	7.83***	--	--	--	--
	MW-13S	1.52	--	--	--	--	2.95	1.97	0.77	NA	NA	5.82	1.21	NA	3.97	2.87	3.47**	NA	7.20***	--	--	--	--	--	--	--	--	--
	MW-14BR	1.90	--	--	--	4.17	--	--	--	1.59	--	--	--	1.93	--	--	--	0.64	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	0.54	0.33	0.89	0.15	0.57	0.53	0.13	2.7	2.75	0.5	0.37	0.85	0.31	1.23[A]	0.20	0.21	0.62	0.54	0.22	1.19	3.26***	0.73	1.41	1.37	1.14
	PZ-18	0.12	--	--	--	4.34	--	--	--	2.44	--	--	--	1.94**	--	--	--	0.56	--	--	--	--	--	--	--	--	--	--
	PZ-26	0.08	--	--	--	0.2	--	--	--	2.39	--	--	--	0.17	--	--	--	0.20	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	0.60	--	--	--	0.2	--	--	--	0.18	--	--	--	0.76	--	--	--	0.67	--	--	--	0.25	0.91	0.23	0.49	0.20	0.60	0.47
	MW-4	0.57	--	--	--	0.4	--	--	--	2.19	--	--	--	3.74	--	--	--	1.08	--	--	--	1.54	8.94	2.31	2.27	0.83	3.89	1.6
	MW-10	0.09	--	--	--	0.2	--		--	0.15	--	--	--	0.08	--	--	--	0.00	--	--	--	0.37	1.65	0.83	0.68	0.46	1.51	1.95
	PZ-7	1.81	--	1.6	--	0.75	--	1.46	--	2.17	--	1.91	--	2.71**	--	2.05	--	NA	--	--	--	--	--	--	--	--	--	--
Others	MW-19	--	--	--	0.26	--	--	--	--	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PZ-2	--	--	--	0.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.20***	--	--	--	--
	PZ-27	1.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A1-PZ-1	--	--	--	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A2-PZ-7	4.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	OW-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.77***	--	--	--	--
	MW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.73***	--	--	--	--
	MW-F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.77***	--	--	--	--
	MW-13BR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.60***	--	--	--	--

See last page for notes.

Table 4-6
Groundwater Sampling Field Parameters - September 2011 through August 2021
Groundwater Summary Report
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	ORP (mV)																										
Sampling Date		Sep-11	Jan-12	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	Feb-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jul-15	Oct-15	Jan-16	Apr-16	Jul-16	Oct-16	Jan-17	Jun-18	Sep-19	Jul-20	May-21	Aug-21
Objective 1	MW-1	121.2	-42.7	46.9	63.1	-203.6	82.0	97.30	69.0	50.7	32.3	202.1	151.7	150.9	111.7	115.0	125.6	171.8	65.2	70.7	212.5	3.0	-33.0	227***	-59	-53	38	42
	MW-3	89.6	-42.9	59.3	62.4	-216.6	119.6	81.20	70.3	62.7	29.2	208.6	127.4	177.1	120.9	84.9	147.5	129.1	105.0	104.0	220.9	80.0	-70.0	237	-56	-54	19	18
	MW-18	--	--	-77.4	92.8	-73.8	-53.8	-35.0	-84.3	-35.2	-94.5	40.2	-74.1	-76.9	-46.6	-30.6	-44.9	-82.6	-79.3	-2.0	90.7	-82	-21	--	--	-47	102	49.5
	MW-20	--	--	--	-100	-160.6	-67.4	-63.5	-114.3	-94.4	-98.4	-51.1	-92	60.3	-69.3	-88.0	-103.0	-106.0	-61.8	-78.5	-80.2	-57.0	-144.0	259	-33	-25	-69	-80
	PZ-5	-139.2	-88.3	-84.3	--	-132	121.16	92.40	-75.9	-48.6	-90.0	NA	181.20	53.4	86.0	63.8	NA	NA	127.2	NA	NA	NA	-30	212	-70	-59	140	--
	PZ-6	12.4	--	-74	--	-58.6	--	16.1	--	-40	--	30.3	--	30.2	51.6	71.1	NA	NA	106.5	NA	--	NA	-7	202	-97	-82	--	--
	PZ-8	73.7	-23.4	--	--	NA	115.4	NA	102.0	NA	NA	-19.3	241.7	NA	NA	227.3	NA	NA	136.5	NA	NA	NA	-44	NA***	-80	--	--	--
	PZ-11R	33.0	-70.7	-2.1	104.2	-2.0	146.6	44.50	88.5	62.2	61.4	2.40	125.00	204.1	118.6	85.4	55.5	146.0	126.3***	111.2***	161.3***	92***	-18	245***	-49	-49	128	91.2
	PZ-13R	-28.2	-28.1	201.3	-35.0	-18.5	3.3	5.30	83.5	-52.9	22.5	-23.40	-110.10	34.4	103.3	39.1	67.8	35.7	133.3***	138.9***	118.3***	78***	-20	245***	-4	-38	126	-45.9
	A2-PZ-1	-48.4	-87.9	-91.4	50.4	-208.2	-39.7	-36.90	-110.3	-111.1	-112.1	-90.60	-99.80	-68.8	-74.7	-49.0	-109.6	-104.6	-43.8	-86.2	203.5	-86.0	2.0	--	--	-66	-15	-23.3
	A2-PZ-2	--	--	--	-78.3	-16.8	25.3	96.0	-16.0	-53.6	-1.1	60.9	-41.9	-10.0	21.3	-15.5	-55.4	44.6	1.4	26.6	84.5	-23.7	-10	--	--	-71	-53	-61.5
Objective 2	MW-5	-55.1	--	-83.6	--	-97.2	--	20.4	--	-21.8	--	-10.7	--	-63.1	--	-80.1	--	-110.7	--	--	--	--	--	244***	--	--	--	--
	MW-13S	83.2	--	--	--	--	160.7	65.2	153.7	NA	NA	215.8	109.8	NA	175.6	98.5	107.9	NA	133.7***	--	--	--	--	--	--	--	--	--
	MW-14BR	-27.4	--	--	--	-254.5	--	--	--	-141.3	--	--	--	-105.4	--	--	--	-204.5	--	--	--	--	--	--	--	--	--	--
	MW-21	--	--	-98.8	90.4	-112.7	-101.9	-85.6	-110.1	-68.5	-113.6	-77.2	-116.5	-86.7	-86.6	-112.3	-19.6	-131.1	-143.3	-102.6	58.7	-102	-124	213***	-56	-61	-87	-68.3
	PZ-18	-17.9	--	--	--	-48.4	--	--	--	-61.1	--	--	--	37.4	--	--	--	-81.6	--	--	--	--	--	--	--	--	--	--
	PZ-26	-55.6	--	--	--	-27.8	--	--	--	-40.9	--	--	--	-59.9	--	--	--	-89.0	--	--	--	--	--	--	--	--	--	--
Objective 3	MW-2	-122.4	--	--	--	-108	--	--	--	-52.9	--	--	--	-66.9	--	--	--	-98.9	--	--	--	-147	-44	236	-54	-60	-59	-75.7
	MW-4	68.8	--	--	--	-53	--	--	--	-12.7	--	--	--	41.4	--	--	--	-1.1	--	--	--	-147	-49	239	-56	-57	6.4	-10.3
	MW-10	-145.3	--	--	--	-254.2	--	--	--	-118.3	--	--	--	-110.4	--	--	--	-134.8	--	--	--	-167	-80	228	-54	-47	-38	-64.3
	PZ-7	-20.0	--	-97.8	--	-88	--	-31.0	--	-60.9	--	-41.0	--	67.5	--	98.8	--	NA	--	--	--	--	--	--	--	--	--	--
Others	MW-19	--	--	--	-128.2	--	--	--	--	-35.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	PZ-2	--	--	--	-154.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	238***	--	--	--	--
	PZ-27	-24.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A1-PZ-1	--	--	--	-153.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	A2-PZ-7	46.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	OW-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	254***	--	--	--	--
	MW-23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	234***	--	--	--	--
	MW-F	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	237***	--	--	--	--
	MW-13BR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	172***	--	--	--	--

See last page for notes.

Table 4-6
Groundwater Sampling Field Parameters - September 2011 through August 2021
Quarterly Data Summary
Former Lockheed Martin French Road Facility
Utica, New York

Notes:
1. DO = dissolved oxygen
2. mg/L = milligrams per liter
3. mS/cm = milliSiemens per centimeter
4. mV = millivolts
5. ORP = oxidation reduction potential
6. s.u. = standard units
7. * Instrument error
8. NA = not analyzed due to well being dry or insufficient sample volume.
9. -- = Not included in the specified sampling round.
10. Note for ORP analysis: only three wells are purged by the low flow evacuation method and parameters monitored using a flow-through cell: MW-1, MW-3, and MW-10. For the others, groundwater parameters are generally collected by bailer and are evaluated at the surface, which is not a reliable or reproducible method for evaluating ORP results.
11. ** Indicates downhole DO was not collected due to insufficient volume.
12. Field parameters for the following wells were collected prior to purging during the Q4 2014 event due to insufficient volume: PZ-5, PZ-6, PZ-7, PZ-9, and PZ-18.
13. Field parameters for the following wells were collected during purging during the Q4 2014 event due to the well going dry prior to purging three well volumes: PZ-13R, MW-14BR, A2-PZ-2, and A1-PZ-2.
14. Field parameters for the following wells were collected prior to purging due to insufficient volume during the Q1 2015 event: PZ-5, PZ-6, PZ-11R, and PZ-13R.
15. Field parameters for the following wells were collected prior to purging due to insufficient volume during the Q2 2015 event: PZ-5, PZ-6, PZ-7, and PZ-8.
16. Field parameters for the following wells were collected prior to purging due to insufficient volume during the Q3 2015 event: PZ-11R, PZ-13R, and MW-13S.
17. Field parameters for the following wells were collected during purging during the Q4 2015 event due to the well going dry prior to purging three well volumes: PZ-11R, PZ-18, and MW-14BR.
18. [A] Due to downhole DO instrument error, the DO value provided was measured using the YSI during bailer purging.
19. Beginning Q1 (January) 2016, all wells were purged and sampled using a bailer. Downhole DO and ORP were measured at all locations (assuming sufficient water column and unless otherwise noted) except at A1-PZ-2, which is too narrow to accommodate the downhole probes available.
20. *** Indicates downhole field parameters were not collected due to insufficient volume, or due to PFAS sampling.
21. Field parameters for the following wells were collected prior to or during purging due to insufficient volume during the Q1 2016 event: PZ-5, PZ-6, PZ-8, PZ-11R, PZ-13R, and MW-13S.
22. Field parameters for the following wells were collected prior to or during purging due to insufficient volume during the Q2-Q4 2016 events: PZ-11R and PZ-13R.
23. As per NYSDEC approval, A1-PZ-2 was removed from the groundwater sampling program.
24. MW-18, A2-PZ-1 and A2-PZ-2 were re-installed following the former northern perimeter ditch excavation activities that were completed in the fall of 2019.

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT
PROJECT: LOCKHEED MARTIN CORPORATION (LMC) UTICA
NEW YORK
DATE SAMPLES COLLECTED: AUGUST 10-13, 2021

LAB REPORT No. 70184112

1.0 INTRODUCTION

Twenty-eight aqueous samples were collected by Tetra Tech, Inc., at the Lockheed Martin Utica site on August 10-13, 2021. The samples were sent to Pace Analytical Services, LLC, in Melville, New York. All analyses were conducted in accordance with USEPA SW846 8260C analytical and reporting protocols.

The data package deliverables provided by the laboratory included a Category B deliverable as outlined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols.

Data validation was performed on the aforementioned samples in accordance with EPA Region II data validation guidelines. Data validation review requirements were applied with specifications of the methods and as outlined in the USEPA Region II Standard Operating Procedure (SOP) NO. HW-24 Revision 4 Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C (September 2014)

The Data Usability Summary Report (DUSR) was prepared after the process of data validation was completed and summarizes the overall data quality and usability in accordance with the NYSDEC Technical Guidance for Site Investigation and Remediation (NYSDEC 2010).

The DUSR review is based on the following parameters:

* ● Data completeness
* ● Hold times/Sample Preservation
* ● GC/MS System Tuning and Performance
● Initial/continuing calibrations
* ● Laboratory Method and Trip Blank Results
* ● Surrogate Spike Recoveries
* ● Internal Standard Results
* ● Laboratory Control Sample Results
* ● Matrix Spike Results
* ● Laboratory Duplicate Precision
* ● Compound Identification/Quantitation
* ● Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter.

This report was prepared to provide a critical review of the laboratory analysis and reported chemical results. Overall, the data quality is acceptable. The results of the Quality Assurance Review are presented in Section 3.0. Summary tables are provided. Attachments 1, 2, and 3 are provided so that the data user can review the qualified analytical results, results reported by the laboratory, and the supporting documentation associated with data findings and data quality.

2.0 SAMPLES INCLUDED IN REVIEW

Lab Report No. 70184112

Sample ID	Lab ID	Date Collected	Test Requested
A2-PZ-2	70184112014	8/12/2021	VOCs
A2-PZ1	70184112015	8/12/2021	VOCs
CB#1	70184112025	8/10/2021	VOCs
CB#2	70184112026	8/10/2021	VOCs
CB#3	70184112027	8/10/2021	VOCs
MW-1	70184112002	8/11/2021	VOCs
MW-10	70184112006	8/11/2021	VOCs
MW-18	70184112016	8/12/2021	VOCs
MW-2	70184112001	8/11/2021	VOCs
MW-20	70184112017	8/12/2021	VOCs
MW-21	70184112018	8/12/2021	VOCs
MW-3	70184112003	8/11/2021	VOCs
MW-4	70184112004	8/11/2021	VOCs
MW-4-DUP	70184112005	8/11/2021	VOCs
PZ-11R	70184112019	8/13/2021	VOCs
PZ-13R	70184112020	8/13/2021	VOCs
PZ-5	70184112024	8/13/2021	VOCs
PZ-6	70184112023	8/13/2021	VOCs
PZ-8	70184112022	8/13/2021	VOCs
TP1-PZ1	70184112008	8/11/2021	VOCs
TP1-PZ2	70184112009	8/11/2021	VOCs
TP1-PZ3	70184112007	8/11/2021	VOCs
TP1-PZ4	70184112010	8/12/2021	VOCs
TP2-PZ-1	70184112012	8/12/2021	VOCs
TP2-PZ-2	70184112011	8/12/2021	VOCs
TP2-PZ-3	70184112013	8/12/2021	VOCs
TP2-PZ-4	70184112021	8/13/2021	VOCs
TRIP BLANK	70184112028	8/10/2021	VOCs

Legend:
VOCs = Volatile Organic Compounds in accordance with SW846 8260C.

3.0 RESULTS

3.1 DATA COMPLETENESS

The contents of the data package were complete and contained all necessary summary forms and raw instrument data.

3.2 QUALITY CONTROL PARAMETERS

Hold Times/Sample Preservation: Technical hold times and preservation were assessed by comparing the sample dates and preservation code on the sample COC with that of the analysis dates.

- All project samples were properly preserved and analyzed within the required hold time for all analyses.

GC/MS Performance Check (Tuning) Summary: Gas chromatograph/mass spectrometer (GC/MS) instrument tuning and performance checks are performed to ensure the instrument's ability to provide appropriate mass-resolution, identification, and sensitivity.

- The BFB tuning compound mass-ion abundance criteria for the VOC analyses were reported within control limits.

Initial and Continuing Calibration Results: Control limits for initial and continuing instrument calibrations are established to ensure that the instrument can produce accurate quantitative data. The following issues were noted:

- The Initial Calibration Verification (ICV) performed on 06/09/2021 @ 19:14 had a Percent Difference (%D) for acetone which exceeded the 30% quality control limit. All samples were affected. The non-detected results reported for acetone in the affected samples were qualified as estimated, (UJ).

- The Continuing Calibration Verification (CCV) performed on 08/18/2021 @ 09:27 had %Ds for acetone, chlorodifluoromethane, chloromethane, dichlorodifluoromethane, and vinyl chloride which exceeded the 20% quality control limit. Samples CB#1, CB#2, CB#3, MW-1, MW-10, MW-2, MW-3, MW-4, MW-4-DUP, TP1-PZ1, TP1-PZ3, and TRIP BLANK were affected. The non-detected and detected results reported for these compounds were qualified as estimated, (UJ) and (J), respectively.

- The CCV performed on 08/20/2021 @ 09:34 had %Ds for chlorodifluoromethane, chloroethane, chloromethane, dichlorodifluoromethane, and vinyl chloride which exceeded the 20% quality control limit. Samples A2-PZ-2, A2-PZ1, MW-18, MW-20, MW-21, PZ-11R, PZ-13R, PZ-5, PZ-6, PZ-8, TP1-PZ2, TP1-PZ4, TP2-PZ-1, TP2-PZ-2, TP2-PZ-3, and TP2-PZ-4 were affected. The non-detected and detected results reported for these compounds were qualified as estimated, (UJ) and (J), respectively.

- All initial calibration Percent Relative Standard Deviations (%RSDs) and initial and continuing calibration response factors were within the quality control limits.

Laboratory Method Blank Contamination and Trip Blank:

- No target compound contaminants were detected in the laboratory method blanks associated with the reviewed parameters in this data set. The trip blank did not contain any detections.

System Monitoring Compound (Surrogate) Recoveries:

- All surrogate recoveries fell within control limits for the project samples received for VOC reviewed.

Internal Standards Area Performance:

- The internal standard area counts and retention times fell within control limits for the project samples received and reviewed.

Laboratory Control Spike (LCS) Results:

- The LCS target compound %Rs were within the quality control limits.

Matrix Spike (MS) Results:

- The sample, TP2-PZ-4, was analyzed for the MS analysis. The MS sample had acceptable %Rs for all target compounds.

Laboratory Duplicate Precision: Laboratory duplicates are analyzed to provide information on laboratory precision.

- The laboratory duplicate sample, PZ-8, was analyzed for laboratory duplicate precision. The results associated with this duplicate analysis had acceptable Relative Percent Differences (RPDs), thereby satisfying laboratory precision.

Target Compound Identification and Quantitation: The laboratory calculations are verified, and compound identifications are reviewed and assessed by the data reviewer.

- The GC/MS raw data (quantitation reports and chromatograms) were provided for review. No laboratory calculation errors were noted for the sample selected for verification during data validation.

Detection Limits: Non-detected results were reported to the Reporting Limit (RL). The following samples were further diluted:

Sample	Compound	Dilution
A2-PZ1	cis-1,2-Dichloroethene	5X
TP1-PZ3	1,1-Dichloroethane	25X
	cis-1,2-Dichloroethene	25X
TP1-Z4	cis-1,2-Dichloroethene	20X
A2-PZ2	cis-1,2-dichloroethene	2X

4.0 CONCLUSIONS

Overall, based on the outcome of data validation and as summarized in the DUSR, the data quality is acceptable with the qualifiers noted in this report.

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September 29, 2021

Attachments:

Attachment 1 – Qualified Analytical Results
Attachment 2 – Results as Reported by the Laboratory
Attachment 3 – Support Documentation

Data Qualifier Definitions

The following definitions provide brief explanations of the validation qualifiers assigned to results in the data review process.

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted detection limit.
J	The result is an estimated value with an unknown bias. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported detection limit is approximate and may be inaccurate or imprecise.
NJ	The analyte has been “tentatively identified” or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.
R	The sample result (detected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
UR	The sample result (nondetected) is unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team, but exclusion of the data is recommended.

Attachment 1

Qualified Analytical Results

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = ICP PDS Recovery Noncompliance; MSA's r < 0.995
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = RPD between columns/detectors >40% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient r < 0.995
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 standard deviations is greater than sample activity
Z1 = Tentatively Identified Compound considered presumptively present
Z2 = Tentatively Identified Compound column bleed
Z3 = Tentatively Identified Compound aldol condensate
Z4 = Sample activity is less than the at uncertainty at 3 standard deviations and greater than the MDC
Z5 = Sample activity is less than the at uncertainty at 3 standard deviations and less than the MDC

PROJ_NO: 112IC09539	NSAMPLE	A2-PZ1			A2-PZ-2			CB#1			CB#2		
SDG: 70184112	LAB_ID	70184112015			70184112014			70184112025			70184112026		
FRACTION: OV	SAMP_DATE	8/12/2021			8/12/2021			8/10/2021			8/10/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		164			4.6			1	U		1	U	
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1.2			1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	CB#3			MW-1			MW-10			MW-18		
SDG: 70184112	LAB_ID	70184112027			70184112002			70184112006			70184112016		
FRACTION: OV	SAMP_DATE	8/10/2021			8/11/2021			8/11/2021			8/12/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		3.9			2			19.2		
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	MW-2			MW-20			MW-21			MW-3		
SDG: 70184112	LAB_ID	70184112001			70184112017			70184112018			70184112003		
FRACTION: OV	SAMP_DATE	8/11/2021			8/12/2021			8/12/2021			8/11/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		4.2			1.1			1	U		2.9		
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	MW-4			MW-4-DUP			PZ-11R			PZ-13R		
SDG: 70184112	LAB_ID	70184112004			70184112005			70184112019			70184112020		
FRACTION: OV	SAMP_DATE	8/11/2021			8/11/2021			8/13/2021			8/13/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				MW-4								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	PZ-5			PZ-6			PZ-8			TP1-PZ1		
SDG: 70184112	LAB_ID	70184112024			70184112023			70184112022			70184112008		
FRACTION: OV	SAMP_DATE	8/13/2021			8/13/2021			8/13/2021			8/11/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		1	U		2.5			1	U	
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	TP1-PZ2			TP1-PZ3			TP1-PZ4			TP2-PZ-1		
SDG: 70184112	LAB_ID	70184112009			70184112007			70184112010			70184112012		
FRACTION: OV	SAMP_DATE	8/11/2021			8/11/2021			8/12/2021			8/12/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		235			192			1	U	
1,1-DICHLOROETHENE		1	U		20.3			2.6			1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	TP2-PZ-2			TP2-PZ-3			TP2-PZ-4			TRIP BLANK		
SDG: 70184112	LAB_ID	70184112011			70184112013			70184112021			70184112028		
FRACTION: OV	SAMP_DATE	8/12/2021			8/12/2021			8/13/2021			8/10/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,1-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2,2-TETRACHLOROETHANE		1	U		1	U		1	U		1	U	
1,1,2-TRICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,1-DICHLOROETHENE		1	U		1	U		1	U		1	U	
1,1-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,3-TRICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,2,4,5-TETRAMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2,4-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,2-DIBROMOETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,2-DICHLOROETHANE		1	U		1	U		1	U		1	U	
1,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,3,5-TRIMETHYLBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,3-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
1,4-DICHLOROBENZENE		1	U		1	U		1	U		1	U	
1,4-DIETHYLBENZENE		1	U		1	U		1	U		1	U	
2,2-DICHLOROPROPANE		1	U		1	U		1	U		1	U	
2-BUTANONE		5	U		5	U		5	U		5	U	
2-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
2-HEXANONE		5	U		5	U		5	U		5	U	
4-CHLOROTOLUENE		1	U		1	U		1	U		1	U	
4-ISOPROPYLTOLUENE		1	U		1	U		1	U		1	U	
4-METHYL-2-PENTANONE		5	U		5	U		5	U		5	U	
ACETONE		5	UJ	C	5	UJ	C	5	UJ	C	5	UJ	C
BENZENE		1	U		1	U		1	U		1	U	
BROMOBENZENE		1	U		1	U		1	U		1	U	
BROMOCHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE		1	U		1	U		1	U		1	U	
BROMOFORM		1	U		1	U		1	U		1	U	
BROMOMETHANE		1	U		1	U		1	U		1	U	

PROJ_NO: 112IC09539	NSAMPLE	A2-PZ1			A2-PZ-2			CB#1			CB#2		
SDG: 70184112	LAB_ID	70184112015			70184112014			70184112025			70184112026		
FRACTION: OV	SAMP_DATE	8/12/2021			8/12/2021			8/10/2021			8/10/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	UJ	C	1	UJ	C	1	U		1	U	
CHLOROFORM		1	U		1	U		1.8			1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		455			208			1	U		1	U	
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		7.3	J	C	1.1	J	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		3.8			13.2			1	U		1	U	
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		1	U		1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		160			36.3			1	U		1	U	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		18.7	J	C	17.1	J	C	1	UJ	C	1	UJ	C

PROJ_NO: 112IC09539	NSAMPLE	CB#3			MW-1			MW-10			MW-18		
SDG: 70184112	LAB_ID	70184112027			70184112002			70184112006			70184112016		
FRACTION: OV	SAMP_DATE	8/10/2021			8/11/2021			8/11/2021			8/12/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	U		1	U		1	U		1	UJ	C
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		3.6			28.3			24.6			171		
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		1.1			21.5			1	U		73		
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		2.2			1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		1.3			8.6			1	U		39		
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	UJ	C	1	UJ	C	7.9	J	C	1	UJ	C

PROJ_NO: 112IC09539	NSAMPLE	MW-2			MW-20			MW-21			MW-3		
SDG: 70184112	LAB_ID	70184112001			70184112017			70184112018			70184112003		
FRACTION: OV	SAMP_DATE	8/11/2021			8/12/2021			8/12/2021			8/11/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	U		1	UJ	C	1	UJ	C	1	U	
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		16.7			5.6			1	U		15.8		
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		1	U		1	U		1	U		2.7		
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		2.1			2.1			1	U		1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		1	U		1	U		1	U		2.6		
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		8.7	J	C	18.8	J	C	4.1	J	C	3	J	C

PROJ_NO: 112IC09539	NSAMPLE	MW-4			MW-4-DUP			PZ-11R			PZ-13R		
SDG: 70184112	LAB_ID	70184112004			70184112005			70184112019			70184112020		
FRACTION: OV	SAMP_DATE	8/11/2021			8/11/2021			8/13/2021			8/13/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF				MW-4								
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	U		1	U		1	UJ	C	1	UJ	C
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		1.6			1.5			2.8			1	U	
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		1	U		1	U		2.5			1.5		
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		1	U		1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		1	U		1	U		3.5			2.2		
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C

PROJ_NO: 112IC09539	NSAMPLE	PZ-5			PZ-6			PZ-8			TP1-PZ1		
SDG: 70184112	LAB_ID	70184112024			70184112023			70184112022			70184112008		
FRACTION: OV	SAMP_DATE	8/13/2021			8/13/2021			8/13/2021			8/11/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	U	
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		19.8			8.6			97			1.7		
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		97.3			2.3			41.1			1	U	
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		3.1			1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		21.8			4.7			96.2			1	U	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	UJ	C	1	UJ	C	2.3	J	C	1	UJ	C

PROJ_NO: 112IC09539	NSAMPLE	TP1-PZ2			TP1-PZ3			TP1-PZ4			TP2-PZ-1		
SDG: 70184112	LAB_ID	70184112009			70184112007			70184112010			70184112012		
FRACTION: OV	SAMP_DATE	8/11/2021			8/11/2021			8/12/2021			8/12/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	UJ	C	1.2			1	UJ	C	1	UJ	C
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		1	U		2930			2180			1	U	
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	10.3	J	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		3.3			1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1			1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		1	U		42.6			3.5			1	U	
TOLUENE		1	U		2.4			2.3			1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		7.2			3.3			1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		1	U		138			24.7			1	U	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	UJ	C	6.1	J	C	31.1	J	C	1	UJ	C

PROJ_NO: 112IC09539	NSAMPLE	TP2-PZ-2			TP2-PZ-3			TP2-PZ-4			TRIP BLANK		
SDG: 70184112	LAB_ID	70184112011			70184112013			70184112021			70184112028		
FRACTION: OV	SAMP_DATE	8/12/2021			8/12/2021			8/13/2021			8/10/2021		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		1	U		1	U		1	U		1	U	
CARBON TETRACHLORIDE		1	U		1	U		1	U		1	U	
CHLOROBENZENE		1	U		1	U		1	U		1	U	
CHLORODIBROMOMETHANE		1	U		1	U		1	U		1	U	
CHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CHLOROETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	U	
CHLOROFORM		1	U		1	U		1	U		1	U	
CHLOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
CIS-1,2-DICHLOROETHENE		1	U		1	U		1	U		1	U	
CIS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
DIBROMOMETHANE		1	U		1	U		1	U		1	U	
DICHLORODIFLUOROMETHANE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C
ETHANOL		250	U		250	U		250	U		250	U	
ETHYLBENZENE		1	U		1	U		1	U		1	U	
HEXACHLOROBUTADIENE		1	U		1	U		1	U		1	U	
ISOPROPYLBENZENE		1	U		1	U		1	U		1	U	
M+P-XYLENES		2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER		1	U		1	U		1	U		1	U	
METHYLENE CHLORIDE		1	U		1	U		1	U		1	U	
NAPHTHALENE		1	U		1	U		1	U		1	U	
N-BUTYLBENZENE		1	U		1	U		1	U		1	U	
N-PROPYLBENZENE		1	U		1	U		1	U		1	U	
O-XYLENE		1	U		1	U		1	U		1	U	
SEC-BUTYLBENZENE		1	U		1	U		1	U		1	U	
STYRENE		1	U		1	U		1	U		1	U	
TERT-BUTYLBENZENE		1	U		1	U		1	U		1	U	
TETRACHLOROETHENE		1	U		1	U		1	U		1	U	
TOLUENE		1	U		1	U		1	U		1	U	
TOTAL XYLENES		3	U		3	U		3	U		3	U	
TRANS-1,2-DICHLOROETHENE		1	U		1	U		1	U		1	U	
TRANS-1,3-DICHLOROPROPENE		1	U		1	U		1	U		1	U	
TRANS-1,4-DICHLORO-2-BUTENE		1	U		1	U		1	U		1	U	
TRICHLOROETHENE		1	U		1	U		1	U		1	U	
TRICHLOROFLUOROMETHANE		1	U		1	U		1	U		1	U	
VINYL CHLORIDE		1	UJ	C	1	UJ	C	1	UJ	C	1	UJ	C

Attachment 2

Results as Reported by the Laboratory

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-2 **Lab ID: 70184112001** Collected: 08/11/21 09:06 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 16:04	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 16:04	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 16:04	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 16:04	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 16:04	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-71-8	v3
1,1-Dichloroethane	**4.2**	ug/L	1.0	1		08/18/21 16:04	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-35-4	
cis-1,2-Dichloroethene	**16.7**	ug/L	1.0	1		08/18/21 16:04	156-59-2	
trans-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		08/18/21 16:04	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 16:04	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 16:04	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 16:04	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-2 **Lab ID: 70184112001** Collected: 08/11/21 09:06 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 16:04	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 16:04	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:04	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	108-67-8	
Vinyl chloride	**8.7**	ug/L	1.0	1		08/18/21 16:04	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 16:04	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 16:04	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 16:04	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-123	1		08/18/21 16:04	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/18/21 16:04	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/18/21 16:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-1 **Lab ID: 70184112002** Collected: 08/11/21 10:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 16:23	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 16:23	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 16:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 16:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 16:23	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-71-8	v3
1,1-Dichloroethane	**3.9**	ug/L	1.0	1		08/18/21 16:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-35-4	
cis-1,2-Dichloroethene	**28.3**	ug/L	1.0	1		08/18/21 16:23	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 16:23	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 16:23	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 16:23	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-1 **Lab ID: 70184112002** Collected: 08/11/21 10:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 16:23	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 16:23	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	79-34-5	
Tetrachloroethene	**21.5**	ug/L	1.0	1		08/18/21 16:23	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	79-00-5	
Trichloroethene	**8.6**	ug/L	1.0	1		08/18/21 16:23	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:23	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 16:23	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 16:23	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 16:23	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 16:23	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/18/21 16:23	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/18/21 16:23	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 16:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-3 **Lab ID: 70184112003** Collected: 08/11/21 11:30 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 16:42	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 16:42	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 16:42	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 16:42	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 16:42	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-71-8	v3
1,1-Dichloroethane	**2.9**	ug/L	1.0	1		08/18/21 16:42	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-35-4	
cis-1,2-Dichloroethene	**15.8**	ug/L	1.0	1		08/18/21 16:42	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 16:42	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 16:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 16:42	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-3 **Lab ID: 70184112003** Collected: 08/11/21 11:30 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 16:42	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 16:42	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	79-34-5	
Tetrachloroethene	**2.7**	ug/L	1.0	1		08/18/21 16:42	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	79-00-5	
Trichloroethene	**2.6**	ug/L	1.0	1		08/18/21 16:42	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 16:42	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	108-67-8	
Vinyl chloride	**3.0**	ug/L	1.0	1		08/18/21 16:42	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 16:42	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 16:42	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 16:42	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-123	1		08/18/21 16:42	17060-07-0	
4-Bromofluorobenzene (S)	98	%	66-119	1		08/18/21 16:42	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/18/21 16:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-4 **Lab ID: 70184112004** Collected: 08/11/21 12:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 17:02	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 17:02	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 17:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 17:02	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 17:02	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-35-4	
cis-1,2-Dichloroethene	**1.6**	ug/L	1.0	1		08/18/21 17:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 17:02	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 17:02	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 17:02	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-4 **Lab ID: 70184112004** Collected: 08/11/21 12:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 17:02	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 17:02	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:02	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 17:02	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 17:02	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 17:02	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 17:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-123	1		08/18/21 17:02	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/18/21 17:02	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/18/21 17:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-4-DUP **Lab ID: 70184112005** Collected: 08/11/21 12:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 17:21	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 17:21	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 17:21	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 17:21	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 17:21	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-35-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	1		08/18/21 17:21	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 17:21	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 17:21	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 17:21	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-4-DUP **Lab ID: 70184112005** Collected: 08/11/21 12:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 17:21	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 17:21	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:21	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 17:21	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 17:21	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 17:21	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 17:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/18/21 17:21	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/18/21 17:21	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 17:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-10 **Lab ID: 70184112006** Collected: 08/11/21 12:38 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 17:41	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 17:41	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 17:41	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 17:41	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 17:41	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-71-8	v3
1,1-Dichloroethane	**2.0**	ug/L	1.0	1		08/18/21 17:41	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-35-4	
cis-1,2-Dichloroethene	**24.6**	ug/L	1.0	1		08/18/21 17:41	156-59-2	
trans-1,2-Dichloroethene	**2.2**	ug/L	1.0	1		08/18/21 17:41	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 17:41	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 17:41	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 17:41	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-10 **Lab ID: 70184112006** Collected: 08/11/21 12:38 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 17:41	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 17:41	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 17:41	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	108-67-8	
Vinyl chloride	**7.9**	ug/L	1.0	1		08/18/21 17:41	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 17:41	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 17:41	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 17:41	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-123	1		08/18/21 17:41	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/18/21 17:41	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 17:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ3 **Lab ID: 70184112007** Collected: 08/11/21 16:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 18:00	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 18:00	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 18:00	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-45-6	N3,v3
Chloroethane	**1.2**	ug/L	1.0	1		08/18/21 18:00	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 18:00	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 18:00	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	110-57-6	
Dichlorodifluoromethane	**10.3**	ug/L	1.0	1		08/18/21 18:00	75-71-8	v3
1,1-Dichloroethane	**235**	ug/L	25.0	25		08/19/21 19:37	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	107-06-2	
1,1-Dichloroethene	**20.3**	ug/L	1.0	1		08/18/21 18:00	75-35-4	
cis-1,2-Dichloroethene	**2930**	ug/L	25.0	25		08/19/21 19:37	156-59-2	
trans-1,2-Dichloroethene	**7.2**	ug/L	1.0	1		08/18/21 18:00	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 18:00	64-17-5	
Ethylbenzene	**3.3**	ug/L	1.0	1		08/18/21 18:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 18:00	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 18:00	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ3 **Lab ID: 70184112007** Collected: 08/11/21 16:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 18:00	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 18:00	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	79-34-5	
Tetrachloroethene	**42.6**	ug/L	1.0	1		08/18/21 18:00	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	95-93-2	N3
Toluene	**2.4**	ug/L	1.0	1		08/18/21 18:00	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	79-00-5	
Trichloroethene	**138**	ug/L	1.0	1		08/18/21 18:00	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:00	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:00	108-67-8	
Vinyl chloride	**6.1**	ug/L	1.0	1		08/18/21 18:00	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 18:00	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 18:00	179601-23-1	
o-Xylene	**1.0**	ug/L	1.0	1		08/18/21 18:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/18/21 18:00	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/18/21 18:00	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 18:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ1 **Lab ID: 70184112008** Collected: 08/11/21 16:45 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 18:20	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 18:20	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 18:20	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 18:20	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 18:20	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-35-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	1		08/18/21 18:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 18:20	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 18:20	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 18:20	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ1 **Lab ID: 70184112008** Collected: 08/11/21 16:45 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 18:20	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 18:20	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 18:20	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 18:20	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 18:20	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 18:20	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 18:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-123	1		08/18/21 18:20	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/18/21 18:20	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/18/21 18:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ2 **Lab ID: 70184112009** Collected: 08/11/21 18:35 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 16:52	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 16:52	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 16:52	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 16:52	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 16:52	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 16:52	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 16:52	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 16:52	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ2 **Lab ID: 70184112009** Collected: 08/11/21 18:35 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 16:52	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 16:52	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:52	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 16:52	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 16:52	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 16:52	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 16:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-123	1		08/20/21 16:52	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 16:52	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 16:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ4 **Lab ID: 70184112010** Collected: 08/12/21 07:50 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 17:12	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 17:12	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 17:12	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 17:12	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 17:12	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-71-8	v3
1,1-Dichloroethane	**192**	ug/L	1.0	1		08/20/21 17:12	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	107-06-2	
1,1-Dichloroethene	**2.6**	ug/L	1.0	1		08/20/21 17:12	75-35-4	
cis-1,2-Dichloroethene	**2180**	ug/L	20.0	20		08/20/21 19:28	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/L	1.0	1		08/20/21 17:12	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 17:12	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 17:12	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 17:12	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP1-PZ4 **Lab ID: 70184112010** Collected: 08/12/21 07:50 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 17:12	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 17:12	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	79-34-5	
Tetrachloroethene	**3.5**	ug/L	1.0	1		08/20/21 17:12	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	95-93-2	N3
Toluene	**2.3**	ug/L	1.0	1		08/20/21 17:12	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	79-00-5	
Trichloroethene	**24.7**	ug/L	1.0	1		08/20/21 17:12	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 17:12	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	108-67-8	
Vinyl chloride	**31.1**	ug/L	1.0	1		08/20/21 17:12	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 17:12	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 17:12	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 17:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	91	%	70-123	1		08/20/21 17:12	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 17:12	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/20/21 17:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-2 **Lab ID: 70184112011** Collected: 08/12/21 10:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 12:59	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 12:59	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 12:59	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 12:59	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 12:59	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 12:59	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 12:59	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 12:59	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-2 **Lab ID: 70184112011** Collected: 08/12/21 10:20 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 12:59	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 12:59	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:59	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:59	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 12:59	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 12:59	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 12:59	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 12:59	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 12:59	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/20/21 12:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-1 **Lab ID: 70184112012** Collected: 08/12/21 09:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 13:18	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 13:18	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 13:18	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 13:18	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 13:18	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 13:18	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 13:18	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 13:18	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-1 **Lab ID: 70184112012** Collected: 08/12/21 09:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 13:18	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 13:18	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:18	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 13:18	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 13:18	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 13:18	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 13:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 13:18	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/20/21 13:18	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/20/21 13:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-3 **Lab ID: 70184112013** Collected: 08/12/21 09:30 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 13:38	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 13:38	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 13:38	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 13:38	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 13:38	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 13:38	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 13:38	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 13:38	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-3 **Lab ID: 70184112013** Collected: 08/12/21 09:30 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 13:38	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 13:38	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:38	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 13:38	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 13:38	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 13:38	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 13:38	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 13:38	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/20/21 13:38	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 13:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: A2-PZ-2 **Lab ID: 70184112014** Collected: 08/12/21 14:10 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 13:57	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 13:57	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 13:57	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 13:57	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 13:57	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	110-57-6	
Dichlorodifluoromethane	**1.1**	ug/L	1.0	1		08/20/21 13:57	75-71-8	v3
1,1-Dichloroethane	**4.6**	ug/L	1.0	1		08/20/21 13:57	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-35-4	
cis-1,2-Dichloroethene	**208**	ug/L	2.0	2		08/20/21 17:50	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 13:57	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 13:57	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 13:57	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: A2-PZ-2 **Lab ID: 70184112014** Collected: 08/12/21 14:10 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 13:57	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 13:57	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	79-34-5	
Tetrachloroethene	**13.2**	ug/L	1.0	1		08/20/21 13:57	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	79-00-5	
Trichloroethene	**36.3**	ug/L	1.0	1		08/20/21 13:57	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 13:57	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	108-67-8	
Vinyl chloride	**17.1**	ug/L	1.0	1		08/20/21 13:57	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 13:57	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 13:57	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 13:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/20/21 13:57	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/20/21 13:57	460-00-4	
Toluene-d8 (S)	100	%	82-121	1		08/20/21 13:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: A2-PZ1 **Lab ID: 70184112015** Collected: 08/12/21 14:45 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 14:17	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 14:17	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 14:17	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 14:17	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 14:17	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	110-57-6	
Dichlorodifluoromethane	**7.3**	ug/L	1.0	1		08/20/21 14:17	75-71-8	v3
1,1-Dichloroethane	**164**	ug/L	1.0	1		08/20/21 14:17	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-35-4	
cis-1,2-Dichloroethene	**455**	ug/L	5.0	5		08/20/21 17:31	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 14:17	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 14:17	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 14:17	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: A2-PZ1 **Lab ID: 70184112015** Collected: 08/12/21 14:45 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 14:17	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 14:17	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	79-34-5	
Tetrachloroethene	**3.8**	ug/L	1.0	1		08/20/21 14:17	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	79-00-5	
Trichloroethene	**160**	ug/L	1.0	1		08/20/21 14:17	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:17	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	108-67-8	
Vinyl chloride	**18.7**	ug/L	1.0	1		08/20/21 14:17	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 14:17	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 14:17	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 14:17	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-123	1		08/20/21 14:17	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/20/21 14:17	460-00-4	
Toluene-d8 (S)	104	%	82-121	1		08/20/21 14:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-18 **Lab ID: 70184112016** Collected: 08/12/21 15:15 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 14:36	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 14:36	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 14:36	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 14:36	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 14:36	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-71-8	v3
1,1-Dichloroethane	**19.2**	ug/L	1.0	1		08/20/21 14:36	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-35-4	
cis-1,2-Dichloroethene	**171**	ug/L	1.0	1		08/20/21 14:36	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 14:36	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 14:36	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 14:36	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-18 **Lab ID: 70184112016** Collected: 08/12/21 15:15 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 14:36	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 14:36	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	79-34-5	
Tetrachloroethene	**73.0**	ug/L	1.0	1		08/20/21 14:36	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	79-00-5	
Trichloroethene	**39.0**	ug/L	1.0	1		08/20/21 14:36	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:36	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 14:36	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 14:36	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 14:36	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 14:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/20/21 14:36	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/20/21 14:36	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/20/21 14:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-20 **Lab ID: 70184112017** Collected: 08/12/21 15:53 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 14:56	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 14:56	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 14:56	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 14:56	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 14:56	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-71-8	v3
1,1-Dichloroethane	**1.1**	ug/L	1.0	1		08/20/21 14:56	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-35-4	
cis-1,2-Dichloroethene	**5.6**	ug/L	1.0	1		08/20/21 14:56	156-59-2	
trans-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		08/20/21 14:56	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 14:56	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 14:56	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 14:56	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-20 **Lab ID: 70184112017** Collected: 08/12/21 15:53 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 14:56	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 14:56	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 14:56	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	108-67-8	
Vinyl chloride	**18.8**	ug/L	1.0	1		08/20/21 14:56	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 14:56	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 14:56	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 14:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 14:56	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 14:56	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 14:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-21 **Lab ID: 70184112018** Collected: 08/12/21 16:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 15:15	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 15:15	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 15:15	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 15:15	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 15:15	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 15:15	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 15:15	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 15:15	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: MW-21 **Lab ID: 70184112018** Collected: 08/12/21 16:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 15:15	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 15:15	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:15	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	108-67-8	
Vinyl chloride	**4.1**	ug/L	1.0	1		08/20/21 15:15	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 15:15	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 15:15	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 15:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 15:15	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		08/20/21 15:15	460-00-4	
Toluene-d8 (S)	105	%	82-121	1		08/20/21 15:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-11R **Lab ID: 70184112019** Collected: 08/13/21 08:46 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 15:35	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 15:35	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 15:35	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 15:35	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 15:35	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-35-4	
cis-1,2-Dichloroethene	**2.8**	ug/L	1.0	1		08/20/21 15:35	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 15:35	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 15:35	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 15:35	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-11R **Lab ID: 70184112019** Collected: 08/13/21 08:46 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 15:35	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 15:35	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	79-34-5	
Tetrachloroethene	**2.5**	ug/L	1.0	1		08/20/21 15:35	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	79-00-5	
Trichloroethene	**3.5**	ug/L	1.0	1		08/20/21 15:35	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:35	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 15:35	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 15:35	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 15:35	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 15:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 15:35	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/20/21 15:35	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 15:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-13R **Lab ID: 70184112020** Collected: 08/13/21 08:27 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 15:54	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 15:54	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 15:54	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 15:54	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 15:54	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 15:54	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 15:54	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 15:54	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-13R **Lab ID: 70184112020** Collected: 08/13/21 08:27 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 15:54	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 15:54	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	79-34-5	
Tetrachloroethene	**1.5**	ug/L	1.0	1		08/20/21 15:54	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	79-00-5	
Trichloroethene	**2.2**	ug/L	1.0	1		08/20/21 15:54	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 15:54	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 15:54	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 15:54	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 15:54	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 15:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 15:54	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/20/21 15:54	460-00-4	
Toluene-d8 (S)	101	%	82-121	1		08/20/21 15:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-4 **Lab ID: 70184112021** Collected: 08/13/21 09:12 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 16:13	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 16:13	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 16:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 16:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 16:13	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 16:13	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 16:13	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 16:13	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TP2-PZ-4 **Lab ID: 70184112021** Collected: 08/13/21 09:12 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 16:13	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 16:13	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:13	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 16:13	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 16:13	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 16:13	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 16:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 16:13	17060-07-0	
4-Bromofluorobenzene (S)	102	%	66-119	1		08/20/21 16:13	460-00-4	
Toluene-d8 (S)	104	%	82-121	1		08/20/21 16:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-8 **Lab ID: 70184112022** Collected: 08/13/21 10:21 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 16:33	67-64-1	IH
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 16:33	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 16:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 16:33	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 16:33	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-71-8	v3
1,1-Dichloroethane	**2.5**	ug/L	1.0	1		08/20/21 16:33	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-35-4	
cis-1,2-Dichloroethene	**97.0**	ug/L	1.0	1		08/20/21 16:33	156-59-2	
trans-1,2-Dichloroethene	**3.1**	ug/L	1.0	1		08/20/21 16:33	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 16:33	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 16:33	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 16:33	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-8 **Lab ID: 70184112022** Collected: 08/13/21 10:21 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 16:33	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 16:33	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	79-34-5	
Tetrachloroethene	**41.1**	ug/L	1.0	1		08/20/21 16:33	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	79-00-5	
Trichloroethene	**96.2**	ug/L	1.0	1		08/20/21 16:33	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 16:33	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	108-67-8	
Vinyl chloride	**2.3**	ug/L	1.0	1		08/20/21 16:33	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 16:33	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 16:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 16:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/20/21 16:33	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 16:33	460-00-4	
Toluene-d8 (S)	101	%	82-121	1		08/20/21 16:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-6 **Lab ID: 70184112023** Collected: 08/13/21 10:52 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 12:11	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 12:11	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 12:11	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 12:11	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 12:11	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-35-4	
cis-1,2-Dichloroethene	**8.6**	ug/L	1.0	1		08/20/21 12:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 12:11	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 12:11	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 12:11	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-6 **Lab ID: 70184112023** Collected: 08/13/21 10:52 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 12:11	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 12:11	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	79-34-5	
Tetrachloroethene	**2.3**	ug/L	1.0	1		08/20/21 12:11	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	79-00-5	
Trichloroethene	**4.7**	ug/L	1.0	1		08/20/21 12:11	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:11	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:11	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 12:11	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 12:11	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 12:11	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/20/21 12:11	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/20/21 12:11	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 12:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-5 **Lab ID: 70184112024** Collected: 08/13/21 10:29 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/20/21 12:35	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/20/21 12:35	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/20/21 12:35	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-00-3	v3
Chloroform	**<1.0**	ug/L	1.0	1		08/20/21 12:35	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/20/21 12:35	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-35-4	
cis-1,2-Dichloroethene	**19.8**	ug/L	1.0	1		08/20/21 12:35	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/20/21 12:35	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/20/21 12:35	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/20/21 12:35	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: PZ-5 **Lab ID: 70184112024** Collected: 08/13/21 10:29 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/20/21 12:35	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/20/21 12:35	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	79-34-5	
Tetrachloroethene	**97.3**	ug/L	1.0	1		08/20/21 12:35	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	79-00-5	
Trichloroethene	**21.8**	ug/L	1.0	1		08/20/21 12:35	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/20/21 12:35	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/20/21 12:35	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/20/21 12:35	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/20/21 12:35	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/20/21 12:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%	70-123	1		08/20/21 12:35	17060-07-0	
4-Bromofluorobenzene (S)	101	%	66-119	1		08/20/21 12:35	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/20/21 12:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#1 **Lab ID: 70184112025** Collected: 08/10/21 09:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 15:05	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-27-4	
Bromoform	**1.2**	ug/L	1.0	1		08/18/21 15:05	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 15:05	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 15:05	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-00-3	
Chloroform	**1.8**	ug/L	1.0	1		08/18/21 15:05	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 15:05	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 15:05	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 15:05	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 15:05	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#1 **Lab ID: 70184112025** Collected: 08/10/21 09:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 15:05	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 15:05	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:05	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:05	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 15:05	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 15:05	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 15:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/18/21 15:05	17060-07-0	
4-Bromofluorobenzene (S)	99	%	66-119	1		08/18/21 15:05	460-00-4	
Toluene-d8 (S)	103	%	82-121	1		08/18/21 15:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#2 **Lab ID: 70184112026** Collected: 08/10/21 09:15 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 15:25	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 15:25	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 15:25	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 15:25	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 15:25	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 15:25	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 15:25	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 15:25	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#2 **Lab ID: 70184112026** Collected: 08/10/21 09:15 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 15:25	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 15:25	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:25	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:25	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 15:25	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 15:25	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 15:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-123	1		08/18/21 15:25	17060-07-0	
4-Bromofluorobenzene (S)	98	%	66-119	1		08/18/21 15:25	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 15:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#3 **Lab ID: 70184112027** Collected: 08/10/21 08:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 15:44	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 15:44	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 15:44	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 15:44	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 15:44	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-35-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	1		08/18/21 15:44	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 15:44	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 15:44	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 15:44	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: CB#3 **Lab ID: 70184112027** Collected: 08/10/21 08:40 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 15:44	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 15:44	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	1		08/18/21 15:44	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	79-00-5	
Trichloroethene	**1.3**	ug/L	1.0	1		08/18/21 15:44	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 15:44	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 15:44	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 15:44	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 15:44	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 15:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-123	1		08/18/21 15:44	17060-07-0	
4-Bromofluorobenzene (S)	100	%	66-119	1		08/18/21 15:44	460-00-4	
Toluene-d8 (S)	102	%	82-121	1		08/18/21 15:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TRIP BLANK **Lab ID: 70184112028** Collected: 08/10/21 00:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Acetone	**<5.0**	ug/L	5.0	1		08/18/21 12:30	67-64-1	v3
Benzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		08/18/21 12:30	78-93-3	
n-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	98-06-6	
Carbon disulfide	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-15-0	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		08/18/21 12:30	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	108-90-7	
Chlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-45-6	N3,v3
Chloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		08/18/21 12:30	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	74-87-3	v3
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	106-43-4	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		08/18/21 12:30	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	106-46-7	
trans-1,4-Dichloro-2-butene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	110-57-6	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-71-8	v3
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	10061-02-6	
1,4-Diethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	105-05-5	N3
Ethanol	**<250**	ug/L	250	1		08/18/21 12:30	64-17-5	
Ethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		08/18/21 12:30	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	1		08/18/21 12:30	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	99-87-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

ANALYTICAL RESULTS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Sample: TRIP BLANK **Lab ID: 70184112028** Collected: 08/10/21 00:00 Received: 08/14/21 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C Volatile Organics	Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
Methylene Chloride	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		08/18/21 12:30	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		08/18/21 12:30	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	103-65-1	
Styrene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	127-18-4	
1,2,4,5-tetramethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	95-93-2	N3
Toluene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		08/18/21 12:30	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	1		08/18/21 12:30	75-01-4	v3
Xylene (Total)	**<3.0**	ug/L	3.0	1		08/18/21 12:30	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		08/18/21 12:30	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		08/18/21 12:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-123	1		08/18/21 12:30	17060-07-0	
4-Bromofluorobenzene (S)	98	%	66-119	1		08/18/21 12:30	460-00-4	
Toluene-d8 (S)	101	%	82-121	1		08/18/21 12:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Attachment 3

Support Documentation

LMC UTICA
SDG 70184112

SAMPLE IDENTIFICATION	TP1-PZ3	
COMPOUND	CIS-1,2-DICHLOROETHENE	
COMPOUND AREA	363727	
INTERNAL STANDARD AMOUNT (ng)	250	
VOLUME WATER PURGED (ml)	5	
DILUTION FACTOR	25	
INTERNAL STANDARD AREA	332515	
CONTINUING CALIBRATION RRF	0.46666	
ml to µl	1000	
ng to µg	1000	
	2930.0	µg/L
reported result	2930	µg/L

(363727 x 250ng x 25 x 1000ml X 1µg /332515 x 0.46666 x 5ml x 1L x 1000ng)

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Report Date: 20-Aug-2021 20:22

Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Lab Smp Id: 70184112007 Client Smp ID: TP1-PZ3
Inj Date : 19-AUG-2021 19:37 MS Autotune Date: 14-MAY-2021 14:0
Operator : BBL Inst ID: 70msv8.i
Smp Info : 70184112007x25,
Misc Info : 12314,
Comment :
Method : \\v70wintarget\chem\70msv8.i\081921.b\060921_8260W.m
Meth Date : 20-Aug-2021 20:19 70msv8.i Quant Type: ISTD
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D
Als bottle: 36
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: RC10A
Processing Host: 70MSV3WS10B6

Concentration Formula: Amt * DF * Uf * 1/Vo * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW C
1 Chlorodifluoromethane	51	Compound Not Detected.						
2 Dichlorotetrafluoroethane	135	Compound Not Detected.						
3 Dichlorodifluoromethane	85	Compound Not Detected.						
4 Chloromethane	50	Compound Not Detected.						
5 Vinyl chloride	62	Compound Not Detected.						
6 1,3-Butadiene	54	Compound Not Detected.						
7 Acetaldehyde	44	Compound Not Detected.						(D)
8 Bromomethane	94	Compound Not Detected.						
9 Chloroethane	64	Compound Not Detected.						
10 Dichlorofluoromethane	67	Compound Not Detected.						
11 Trichlorofluoromethane	101	Compound Not Detected.						
12 Ethanol	45	Compound Not Detected.						(D)
13 Diethyl ether (Ethyl ether)	59	Compound Not Detected.						
16 1,1,2-Trichlorotrifluoroethane	101	Compound Not Detected.						
14 Acrolein	56	Compound Not Detected.						
15 1,1-Dichloroethene	96	Compound Not Detected.						
17 Acetone	43	Compound Not Detected.						
18 Iodomethane	142	Compound Not Detected.						
19 2-Propanol	45	Compound Not Detected.						(D)
20 Carbon disulfide	76	Compound Not Detected.						
21 Allyl chloride	76	Compound Not Detected.						
22 Acetonitrile	41	Compound Not Detected.						(D)

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Report Date: 20-Aug-2021 20:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	REVIEW C
	23 Methyl acetate	43	Compound Not Detected.						
	24 Methylene Chloride	84	Compound Not Detected.						
	25 tert-Butyl Alcohol	59	Compound Not Detected.						
	28 Methyl-tert-butyl ether	73	Compound Not Detected.						
	27 trans-1,2-Dichloroethene	96	Compound Not Detected.						
	26 Acrylonitrile	53	Compound Not Detected.						
	30 n-Hexane	57	Compound Not Detected.						
	29 Diisopropyl ether	45	Compound Not Detected.						
	32 Vinyl acetate	43	Compound Not Detected.						
	31 1,1-Dichloroethane	63	2.806	2.806	(0.762)	50146	9.39702	235	
	33 Chloroprene	53	Compound Not Detected.						
	34 Ethyl-tert-butyl ether	59	Compound Not Detected.						
	36 2,2-Dichloropropane	77	Compound Not Detected.						
	35 cis-1,2-Dichloroethene	96	3.257	3.257	(0.884)	363727	117.201	2930	
	39 Ethyl acetate	61	Compound Not Detected.						(D)
	37 2-Butanone (MEK)	43	Compound Not Detected.						
	41 Bromochloromethane	128	Compound Not Detected.						
	42 Tetrahydrofuran	42	Compound Not Detected.						
	43 Chloroform	83	Compound Not Detected.						
	38 Propionitrile	54	Compound Not Detected.						
	46 Cyclohexane	56	Compound Not Detected.						(D)
	45 1,1,1-Trichloroethane	97	Compound Not Detected.						
*	44 Pentafluorobenzene (IS)	168	3.683	3.683	(1.000)	332515	50.0000		
	48 Carbon tetrachloride	117	Compound Not Detected.						(D)
	47 1,1-Dichloropropene	75	Compound Not Detected.						(D)
	55 2,2,4-Trimethylpentane	57	Compound Not Detected.						
	51 Benzene	78	Compound Not Detected.						
	40 Methacrylonitrile	67	Compound Not Detected.						(D)
$	50 1,2-Dichloroethane-d4 (S)	65	3.952	3.946	(0.917)	185402	45.8079	45.8	
	56 tert-Amylmethyl ether	73	Compound Not Detected.						
	52 1,2-Dichloroethane	62	Compound Not Detected.						
	57 n-Heptane	43	Compound Not Detected.						
*	58 1,4-Difluorobenzene (IS)	114	4.311	4.311	(1.000)	609126	50.0000		
	59 Trichloroethene	95	4.506	4.506	(1.045)	14467	4.57923	114	
	60 Methylcyclohexane	83	Compound Not Detected.						
	49 Isobutanol	43	Compound Not Detected.						(D)
	53 tert-Amyl Alcohol	59	Compound Not Detected.						
	54 tert-Amyl ethyl ether	59	Compound Not Detected.						
	61 1,2-Dichloropropane	63	Compound Not Detected.						
	63 Methyl methacrylate	69	Compound Not Detected.						
	64 1,4-Dioxane (p-Dioxane)	88	Compound Not Detected.						(D)
	62 Dibromomethane	93	Compound Not Detected.						
	65 Bromodichloromethane	83	Compound Not Detected.						
	66 2-Nitropropane	43	Compound Not Detected.						
	67 2-Chloroethylvinyl ether	63	Compound Not Detected.						
	68 cis-1,3-Dichloropropene	75	Compound Not Detected.						
	69 4-Methyl-2-pentanone (MIBK)	43	Compound Not Detected.						(D)
$	70 Toluene-d8 (S)	98	5.726	5.726	(0.770)	724314	50.6861	50.7	
	71 Toluene	91	Compound Not Detected.						
	72 Methyl isothiocyanate	73	Compound Not Detected.						
	74 trans-1,3-Dichloropropene	75	Compound Not Detected.						
	75 Ethyl methacrylate	69	Compound Not Detected.						
	76 1,1,2-Trichloroethane	83	Compound Not Detected.						
	77 Tetrachloroethene	166	6.360	6.366	(0.856)	4687	1.59723	39.9(Q)	
	78 1,3-Dichloropropane	76	Compound Not Detected.						

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Report Date: 20-Aug-2021 20:22

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)	REVIEW C
	79	2-Hexanone	43	Compound Not Detected.						
	73	n-Octane	43	Compound Not Detected.						
	81	n-Butyl acetate	43	Compound Not Detected.						
	80	Dibromochloromethane	129	Compound Not Detected.						
	82	1,2-Dibromoethane (EDB)	107	Compound Not Detected.						
*	83	Chlorobenzene-d5 (IS)	82	7.433	7.427	(1.000)	294957	50.0000		
	84	Chlorobenzene	112	Compound Not Detected.						
	86	Ethylbenzene	106	Compound Not Detected.						
	85	1,1,1,2-Tetrachloroethane	131	Compound Not Detected.						
	88	n-Nonane	43	Compound Not Detected.						
	87	m&p-Xylene	106	Compound Not Detected.						
	89	o-Xylene	106	Compound Not Detected.						
	90	Styrene	104	Compound Not Detected.						
	91	Bromoform	173	Compound Not Detected.						
	92	Isopropylbenzene (Cumene)	105	Compound Not Detected.						
$	93	4-Bromofluorobenzene (S)	95	9.024	9.024	(1.214)	262439	50.0344	50.0	
	94	Bromobenzene	156	Compound Not Detected.						
	95	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.						
	98	n-Propylbenzene	91	Compound Not Detected.						
	96	1,2,3-Trichloropropane	110	Compound Not Detected.						
	97	trans-1,4-Dichloro-2-butene	53	Compound Not Detected.						
	103	n-Decane	43	Compound Not Detected.						(D)
	99	2-Chlorotoluene	91	Compound Not Detected.						
	100	4-Ethyltoluene	105	Compound Not Detected.						
	101	1,3,5-Trimethylbenzene	105	Compound Not Detected.						
	102	4-Chlorotoluene	91	Compound Not Detected.						
	104	tert-Butylbenzene	119	Compound Not Detected.						
	105	Pentachloroethane	167	Compound Not Detected.						
	106	1,2,4-Trimethylbenzene	105	Compound Not Detected.						
	107	sec-Butylbenzene	105	Compound Not Detected.						
	109	d-Limonene	136	Compound Not Detected.						
	110	p-Isopropyltoluene	119	Compound Not Detected.						
	108	1,3-Dichlorobenzene	146	Compound Not Detected.						
*	111	1,4-Dichlorobenzene-d4 (IS)	152	10.072	10.072	(1.000)	258705	50.0000		
	112	1,4-Dichlorobenzene	146	Compound Not Detected.						
	113	1,2,3-Trimethylbenzene	105	Compound Not Detected.						
	114	Benzyl chloride	91	Compound Not Detected.						
	115	trans-Decalin	138	Compound Not Detected.						(D)
	116	1,4-Diethylbenzene	119	Compound Not Detected.						
	117	n-Butylbenzene	91	Compound Not Detected.						(D)
	119	n-Undecane	43	Compound Not Detected.						
	118	1,2-Dichlorobenzene	146	Compound Not Detected.						
	120	cis-Decalin	138	Compound Not Detected.						(D)
	121	1,2,4,5-tetramethylbenzene	119	Compound Not Detected.						(D)
	122	1,2-Dibromo-3-chloropropane	75	Compound Not Detected.						
	123	n-Dodecane	43	Compound Not Detected.						
	124	1,2,4-Trichlorobenzene	180	Compound Not Detected.						(D)
	125	Hexachloro-1,3-butadiene	225	Compound Not Detected.						(D)
	126	Naphthalene	128	Compound Not Detected.						(D)
	127	1,2,3-Trichlorobenzene	180	Compound Not Detected.						(D)

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Report Date: 20-Aug-2021 20:22

QC Flag Legend

Q - Qualifier signal failed the ratio test.
D - User disabled compound identification.

Review Codes Legend

:

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Report Date: 20-Aug-2021 20:22

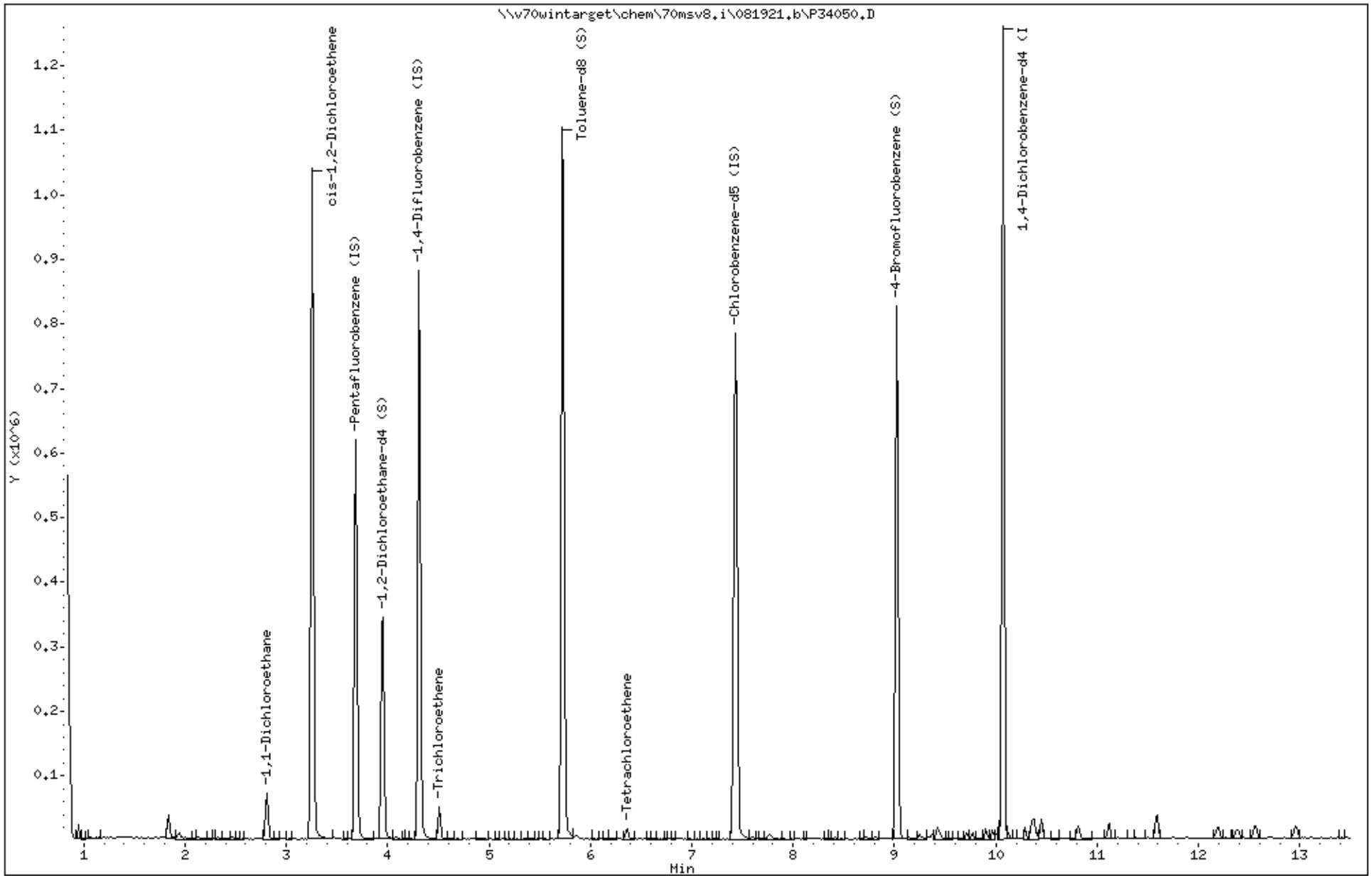
Pace Analytical Services, Inc.

SW846-8260C/D/EPA 624.1

Data file : \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Lab Smp Id: 70184112007 Client Smp ID: TP1-PZ3
Inj Date : 19-AUG-2021 19:37 MS Autotune Date: 14-MAY-2021 14:0
Operator : BBL Inst ID: 70msv8.i
Smp Info : 70184112007x25,
Misc Info : 12314,
Comment :
Method : \\v70wintarget\chem\70msv8.i\081921.b\060921_8260W.m
Meth Date : 20-Aug-2021 20:19 70msv8.i Quant Type: ISTD
Cal Date : 09-JUN-2021 16:47 Cal File: P31435.D
Als bottle: 36
Dil Factor: 25.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: RC10A
Processing Host: 70MSV3WS10B6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\v70wintarget\chem\70msv8.i\081921.b\P34050.D
Date : 19-AUG-2021 19:37
Client ID: TP1-PZ3
Instrument: 70msv8.i
Sample Info: 70184112007X25,
Purge Volume: 5.0
Operator: BBL
Column phase: RTX-624
Column diameter: 0.18



ANALYTE	ORIGINAL	DUPLICATE	RL	RPD	RPD > 30%	ORIGINAL SAMPLE CONC >2xRL	DUPLICATE SAMPLE CONC >2xRL	DIFFERENCE >2XRL
CIS-1,2-DICHLOROETHENE	1.6	1.5	1	6.45	FALSE	FALSE	FALSE	FALSE

SDG 70184112
MW-4 DUP/MW-4

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO# : 70184112

70184112

LAB USE ONLY- A

ALL S

Company: Tetra Tech	Billing Information:
Address: 3136 S. Winton Rd, Rochester, NY 14623	
Report To: Glenn Netuschil	Email To: glenn.netuschil@tetratech.com
Copy To:	Site/Collection Info/Address: LMC-Utica
Customer Project Name/Number: LMC Utica	State: NY County/City: Utica Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Bailey Kudla-Williams	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [X] No Analysis: _____

Container Preserv

3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

VOC 8260

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	
MW-2	GW	G	08/11/21	0906				2	X
MW-1				1040				2	X
MW-3				1130				2	X
MW-4				1220				2	X
MW-4-DUP				1220				2	X
MW-10				1238				2	X
TP1-PZ3				1620				2	X
TP1-PZ1				1645				2	X
TP1-PZ2				1835				2	X
TP1-PZ4			08/12/21	0750				2	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: BB/ziploc

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 7745 3383 8790 2411970

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: TH091
Cooler 1 Temp Upon Receipt: 1.8 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.8 oC
Comments:

Relinquished by/Company: (Signature) TetraTech	Date/Time: 8-13-21 1450	Received by/Company: (Signature)	Date/Time: 8/13/21 15:10	MTJL LAB USE ONLY Table #:
Relinquished by/Company: (Signature)	Date/Time: 8/13/21 17:00	Received by/Company: (Signature)	Date/Time: 8/14/21 1040	Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3 4 BKW

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Tetra Tech	Billing Information:
Address: 3136 S. Winton Rd, Rochester, NY	
Report To: Glenn Netuschil	Email To: glenn.netuschil@tetratech.com
Copy To:	Site Collection Info/Address: LMC - Utica
Customer Project Name/Number: LMC Utica	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Bailey Kudla-Williams	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Analyses: VOC by 8260

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC by 8260
TP2-PZ-2	GW	G	8-12-21	1020				2	X
TP2-PZ-1				0900				2	X
TP2-PZ-3				0930				2	X
A2-PZ-2				1410				2	X
A2-PZ-1				1445				2	X
MW-18				1515				2	X
MW-20				1555				2	X
MW-21				1640				2	X
PZ-11R			8-13-21	0846				2	X
PZ-13R				0827				2	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2411967

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature) / TetraTech	Date/Time: 8/13/21 1450	Received by/Company: (Signature)	Date/Time: 8/13/21 1510
Relinquished by/Company: (Signature)	Date/Time: 8/13/21 1700	Received by/Company: (Signature)	Date/Time: 8/14/21 7040
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3 4 BKW

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder M

WO#: 70184112

PM: KMM Due Date: 08/30/21

CLIENT: TETRA

ALL SHADED A

Company: Tetra Tech	Billing Information:
Address: 3136 S. Winton Rd, Rochester, NY	
Report To: Glenn Netuschil	Email To: glenn.netuschil@tetratech.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: LMC Utica	State: NY / County/City: Utica / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Bailey Rudla-Williams	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis:

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses: VOC by 8260

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOC by 8260
TP2-PZ-4	GW	G	8-13-21	0912				2	X
PZ-8				1021				2	X
PZ-6				1052				1	X
PZ-5			↓	1029				1	X
CB#1			8-10-21	0900				2	X
CB#2				0915				2	X
CB#3	↓	↓	↓	0840				2	X
		BKW							

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2411968

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature) / Tetra Tech	Date/Time: 8/13/21 1450	Received by/Company: (Signature)	Date/Time: 8/13/21 15:10
Relinquished by/Company: (Signature)	Date/Time: 8/17/21 17:00	Received by/Company: (Signature)	Date/Time: 8/14/21 1040
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 4 BKW

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorde

WO#: 70184112

PM: KMM Due Date: 08/30/21

CLIENT: TETRA

ALL SHADED

Company: Tetra Tech	Billing Information:
Address: 3136 S Winton Rd	
Report To: Glenn Netuschil	Email To: glenn.netuschil@tetratech.com
Copy To:	Site Collection Info/Address: LMC Utica
Customer Project Name/Number: LMC Utica	State: NY County/City: Utica Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Bailey Kruchla-Williams	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC by 8260	Lab Profile/Line
TRIP BLANK								2	X	

BKW

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2411969

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
TetraTech	1450 8-13-21		8/13/21 15:10
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/13/21 17:00	Pace LI	8/14/21 1040
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 4 of: 4

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

General Information:
28 samples were analyzed for EPA 8260C/5030C by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 222330

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 1121101)
  - Acetone
- MS (Lab ID: 1121102)
  - Acetone
- MSD (Lab ID: 1121103)
  - Acetone

QC Batch: 222719

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- LCS (Lab ID: 1123028)
  - Acetone
- MS (Lab ID: 1124236)
  - Acetone
- PZ-8 (Lab ID: 70184112022)
  - Acetone
- TP1-PZ2 (Lab ID: 70184112009)
  - Acetone

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 222330

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- BLANK (Lab ID: 1121100)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- CB#1 (Lab ID: 70184112025)
  - Acetone

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

QC Batch: 222330

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Chlorodifluoromethane
- Chloromethane
- Dichlorodifluoromethane
- Vinyl chloride

- CB#2 (Lab ID: 70184112026)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- CB#3 (Lab ID: 70184112027)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- LCS (Lab ID: 1121101)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MS (Lab ID: 1121102)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MSD (Lab ID: 1121103)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-1 (Lab ID: 70184112002)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-10 (Lab ID: 70184112006)
  - Acetone
  - Chlorodifluoromethane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

QC Batch: 222330

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Chloromethane
- Dichlorodifluoromethane
- Vinyl chloride

- MW-2 (Lab ID: 70184112001)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-3 (Lab ID: 70184112003)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-4 (Lab ID: 70184112004)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-4-DUP (Lab ID: 70184112005)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP1-PZ1 (Lab ID: 70184112008)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP1-PZ3 (Lab ID: 70184112007)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TRIP BLANK (Lab ID: 70184112028)
  - Acetone
  - Chlorodifluoromethane
  - Chloromethane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

QC Batch: 222330

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Dichlorodifluoromethane
- Vinyl chloride

QC Batch: 222719

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- A2-PZ-2 (Lab ID: 70184112014)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- A2-PZ1 (Lab ID: 70184112015)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- BLANK (Lab ID: 1123027)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- DUP (Lab ID: 1124235)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- LCS (Lab ID: 1123028)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MS (Lab ID: 1124236)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-18 (Lab ID: 70184112016)
  - Chlorodifluoromethane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

QC Batch: 222719

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Chloroethane
- Chloromethane
- Dichlorodifluoromethane
- Vinyl chloride

- MW-20 (Lab ID: 70184112017)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- MW-21 (Lab ID: 70184112018)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- PZ-11R (Lab ID: 70184112019)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- PZ-13R (Lab ID: 70184112020)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- PZ-5 (Lab ID: 70184112024)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- PZ-6 (Lab ID: 70184112023)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- PZ-8 (Lab ID: 70184112022)
  - Chlorodifluoromethane
  - Chloroethane

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

QC Batch: 222719

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

- Chloromethane
- Dichlorodifluoromethane
- Vinyl chloride

- TP1-PZ2 (Lab ID: 70184112009)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP1-PZ4 (Lab ID: 70184112010)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP2-PZ-1 (Lab ID: 70184112012)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP2-PZ-2 (Lab ID: 70184112011)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP2-PZ-3 (Lab ID: 70184112013)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride
- TP2-PZ-4 (Lab ID: 70184112021)
  - Chlorodifluoromethane
  - Chloroethane
  - Chloromethane
  - Dichlorodifluoromethane
  - Vinyl chloride

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

PROJECT NARRATIVE

Project: LMC UTICA 8/11
Pace Project No.: 70184112

Method: **EPA 8260C/5030C**
Description: 8260C Volatile Organics
Client: Tetra Tech Inc.
Date: August 25, 2021

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

QUALIFIERS

Project: LMC UTICA 8/11
Pace Project No.: 70184112

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
N3	Accreditation is not offered by the relevant laboratory accrediting body for this parameter.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

MSV - FORM II VOA-1
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Instrument ID: 70MSV8

LAB SAMPLE ID	SAMPLE NAME	12D4	BFB	TOL8
1121100	1121100BLANK	97	99	104
1121101	1121101LCS	95	98	103
70184112001	MW-2	91	100	103
70184112002	MW-1	93	99	102
70184112003	MW-3	95	98	103
70184112004	MW-4	92	101	103
70184112005	MW-4-DUP	94	101	102
70184112006	MW-10	92	99	102
70184112007	TP1-PZ3	94	99	102
70184112008	TP1-PZ1	91	100	103
70184112025	CB#1	94	99	103
70184112026	CB#2	94	98	102
70184112027	CB#3	95	100	102
70184112028	TRIP BLANK	95	98	101

	QC LIMITS
(12D4) = 1,2-Dichloroethane-d4 (S)	(70-123)
(BFB) = 4-Bromofluorobenzene (S)	(66-119)
(TOL8) = Toluene-d8 (S)	(82-121)

* Values outside of QC Limits

MSV - FORM II VOA-2
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Instrument ID: 70MSV8

LAB SAMPLE ID	SAMPLE NAME	12D4	BFB	TOL8
1123027	1123027BLANK	95	103	99
1123028	1123028LCS	93	101	104
1124235	1124235DUP	93	100	102
1124236	1124236MS	91	102	104
70184112009	TP1-PZ2	91	100	102
70184112010	TP1-PZ4	91	100	103
70184112011	TP2-PZ-2	93	100	103
70184112012	TP2-PZ-1	93	101	103
70184112013	TP2-PZ-3	93	99	102
70184112014	A2-PZ-2	94	99	100
70184112015	A2-PZ1	95	101	104
70184112016	MW-18	94	101	103
70184112017	MW-20	93	100	102
70184112018	MW-21	93	102	105
70184112019	PZ-11R	93	99	102
70184112020	PZ-13R	93	101	101
70184112021	TP2-PZ-4	93	102	104
70184112022	PZ-8	94	100	101
70184112023	PZ-6	94	100	102
70184112024	PZ-5	93	101	102

	QC LIMITS
(12D4) = 1,2-Dichloroethane-d4 (S)	(70-123)
(BFB) = 4-Bromofluorobenzene (S)	(66-119)
(TOL8) = Toluene-d8 (S)	(82-121)

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Sample ID : 15577767CCV Date Analyzed: 08/18/2021

Instrument ID: 70MSV8 GC Column: Col 1 Time Analyzed: 09:27

Lab File ID: 081821.B\P34000.D

		AREA CBZ	RT	AREA DCB	RT	AREA DFB	RT	AREA PFB	RT
12 HOUR STD		299242	7.433	269546	10.073	625140	4.312	352284	3.69
UPPER LIMIT		598484	7.933	539092	10.573	1250280	4.812	704568	4.19
LOWER LIMIT		149621	6.933	134773	9.573	312570	3.812	176142	3.19
LAB SAMPLE ID	SAMPLE NO.								
1121100	1121100BLANK	297327	7.433	253551	10.073	611311	4.312	339671	3.69
1121101	1121101LCS	303385	7.433	266980	10.073	625538	4.312	341603	3.684
70184112001	MW-2	298760	7.433	258520	10.073	627516	4.312	342855	3.684
70184112002	MW-1	299656	7.433	258722	10.073	615377	4.312	341902	3.684
70184112003	MW-3	296614	7.433	259934	10.073	604962	4.312	335125	3.69
70184112004	MW-4	292221	7.433	256921	10.073	608116	4.312	335664	3.69
70184112005	MW-4-DUP	296521	7.427	258158	10.073	607565	4.312	336029	3.684
70184112006	MW-10	292653	7.433	257346	10.073	609047	4.312	333704	3.684
70184112007	TP1-PZ3	295058	7.433	260806	10.073	607337	4.312	337793	3.684
70184112008	TP1-PZ1	294364	7.433	257258	10.073	616653	4.312	340349	3.684
70184112025	CB#1	296925	7.427	255307	10.073	613734	4.312	337596	3.684
70184112026	CB#2	302143	7.433	261233	10.073	621965	4.312	345418	3.684
70184112027	CB#3	295684	7.433	258686	10.073	614031	4.312	341189	3.684
70184112028	TRIP BLANK	297677	7.433	253276	10.073	602972	4.312	335130	3.69

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
DFB = 1,4-Difluorobenzene (IS)
PFB = Pentafluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Sample ID : 15539856CCV Date Analyzed: 08/19/2021

Instrument ID: 70MSV8 GC Column: Col 1 Time Analyzed: 10:09

Lab File ID: 081921.B\P34026.D

		AREA CBZ	RT	AREA DCB	RT	AREA DFB	RT	AREA PFB	RT
12 HOUR STD		298534	7.427	265659	10.073	615926	4.312	339997	3.684
UPPER LIMIT		597068	7.927	531318	10.573	1231852	4.812	679994	4.184
LOWER LIMIT		149267	6.927	132829.5	9.573	307963	3.812	169998.5	3.184
LAB SAMPLE ID	SAMPLE NO.								
70184112007	TP1-PZ3	294957	7.433	258705	10.073	609126	4.312	332515	3.684

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
DFB = 1,4-Difluorobenzene (IS)
PFB = Pentafluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

MSV - FORM VIII VOA-1
MSV INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Sample ID : 15539858CCV Date Analyzed: 08/20/2021

Instrument ID: 70MSV8 GC Column: Col 1 Time Analyzed: 09:34

Lab File ID: 082021.B\P34052.D

		AREA CBZ	RT	AREA DCB	RT	AREA DFB	RT	AREA PFB	RT
12 HOUR STD		296823	7.433	267995	10.073	598318	4.312	332271	3.684
UPPER LIMIT		593646	7.933	535990	10.573	1196636	4.812	664542	4.184
LOWER LIMIT		148411.5	6.933	133997.5	9.573	299159	3.812	166135.5	3.184
LAB SAMPLE ID	SAMPLE NO.								
1123027	1123027BLANK	301548	7.427	266151	10.073	582679	4.306	322483	3.678
1123028	1123028LCS	292959	7.433	266231	10.073	609176	4.312	332217	3.69
1124235	1124235DUP	290894	7.433	258854	10.073	597028	4.312	332214	3.69
1124236	1124236MS	290235	7.433	264128	10.073	601782	4.312	329290	3.684
70184112009	TP1-PZ2	293607	7.433	255248	10.073	604054	4.312	333297	3.684
70184112010	TP1-PZ4	289909	7.427	255126	10.073	605441	4.312	331686	3.684
70184112010 DL 20	TP1-PZ4	292425	7.433	259504	10.073	607801	4.312	335180	3.684
70184112011	TP2-PZ-2	297088	7.433	260364	10.073	613254	4.312	335196	3.684
70184112012	TP2-PZ-1	284216	7.433	253525	10.073	594534	4.312	328449	3.684
70184112013	TP2-PZ-3	294075	7.433	250761	10.073	596152	4.312	327679	3.69
70184112014	A2-PZ-2	293942	7.433	252352	10.073	595075	4.312	329308	3.684
70184112014 DL 2	A2-PZ-2	289786	7.433	257294	10.073	599698	4.312	333345	3.684
70184112015	A2-PZ1	287428	7.427	253472	10.073	585247	4.312	332477	3.684
70184112015 DL 5	A2-PZ1	288174	7.433	258862	10.073	596561	4.312	328699	3.684
70184112016	MW-18	291649	7.433	258362	10.073	601221	4.312	336838	3.684
70184112017	MW-20	291032	7.433	254568	10.073	595720	4.312	327354	3.69
70184112018	MW-21	285876	7.433	253977	10.073	594678	4.312	326639	3.684
70184112019	PZ-11R	295042	7.433	260999	10.073	603856	4.312	334374	3.684
70184112020	PZ-13R	290404	7.433	256174	10.073	604978	4.312	330584	3.69
70184112021	TP2-PZ-4	288154	7.427	253772	10.073	600778	4.312	336634	3.684
70184112022	PZ-8	289631	7.433	252784	10.073	587947	4.312	322667	3.684
70184112023	PZ-6	290344	7.433	254542	10.073	591522	4.312	327942	3.684
70184112024	PZ-5	296431	7.433	257871	10.073	610403	4.312	334546	3.69

CBZ = Chlorobenzene-D5 (IS)
DCB = 1,4-Dichlorobenzene-d4 (IS)
DFB = 1,4-Difluorobenzene (IS)
PFB = Pentafluorobenzene (IS)

AREA UPPER LIMIT = 200% of Internal Standard Area
AREA LOWER LIMIT = 50% of Internal Standard Area
RT UPPER LIMIT = +0.50 minutes of Internal Standard RT
RT LOWER LIMIT = -0.50 minutes of Internal Standard RT

* Values outside of QC Limits

SAMPLE NO.

1121100BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Instrument ID: 70MSV8 Matrix: Water Lab Sample ID: 1121100

Lab File ID: 081821.B\P34001.D Date Analyzed: 08/18/2021 Time: 10:43

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1121101LCS	1121101	081821.B\P34002.D	08/18/2021 11:16
TRIP BLANK	70184112028	081821.B\P34004.D	08/18/2021 12:30
CB#1	70184112025	081821.B\P34012.D	08/18/2021 15:05
CB#2	70184112026	081821.B\P34013.D	08/18/2021 15:25
CB#3	70184112027	081821.B\P34014.D	08/18/2021 15:44
MW-2	70184112001	081821.B\P34015.D	08/18/2021 16:04
MW-1	70184112002	081821.B\P34016.D	08/18/2021 16:23
MW-3	70184112003	081821.B\P34017.D	08/18/2021 16:42
MW-4	70184112004	081821.B\P34018.D	08/18/2021 17:02
MW-4-DUP	70184112005	081821.B\P34019.D	08/18/2021 17:21
MW-10	70184112006	081821.B\P34020.D	08/18/2021 17:41
TP1-PZ3	70184112007	081821.B\P34021.D	08/18/2021 18:00
TP1-PZ1	70184112008	081821.B\P34022.D	08/18/2021 18:20
TP1-PZ3	70184112007	081921.B\P34050.D	08/19/2021 19:37

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York Contract: LMC UTICA 8/11

Date Received: Matrix: Water SDG No.: 70184112

Date Extracted: 08/18/2021 10:43 Lab Sample ID: 1121100

Date Analyzed: 08/18/2021 10:43 Lab File ID: 081821.B\P34001.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 70MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-45-6	Chlorodifluoromethane	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York Contract: LMC UTICA 8/11

Date Received: Matrix: Water SDG No.: 70184112

Date Extracted: 08/18/2021 10:43 Lab Sample ID: 1121100

Date Analyzed: 08/18/2021 10:43 Lab File ID: 081821.B\P34001.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 70MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-01-5	cis-1,3-Dichloropropene	<1.0	U
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
105-05-5	1,4-Diethylbenzene	<1.0	U
64-17-5	Ethanol	<250	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
95-93-2	1,2,4,5-tetramethylbenzene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York | Lab Sample ID: 1121101LCS

Date Extracted: 08/18/2021 | Date Analyzed (1): 08/18/2021

Instrument: 70MSV8 | LCS Lot No: 116700

Lab File ID: 081821.B\P34002.D | SDG No.: 70184112

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	50.0	36.4	73	10-225
Benzene	50.0	50.6	101	73-121
Bromobenzene	50.0	49.3	99	70-120
Bromochloromethane	50.0	53.4	107	75-130
Bromodichloromethane	50.0	50.3	101	74-127
Bromoform	50.0	54.8	110	55-128
Bromomethane	50.0	49.0	98	12-176
2-Butanone (MEK)	50.0	52.9	106	28-169
n-Butylbenzene	50.0	52.4	105	66-126
sec-Butylbenzene	50.0	49.8	100	68-120
tert-Butylbenzene	50.0	49.0	98	72-115
Carbon disulfide	50.0	47.2	94	57-129
Carbon tetrachloride	50.0	46.5	93	64-122
Chlorobenzene	50.0	50.5	101	76-117
Chlorodifluoromethane	50.0	36.2	72	42-122
Chloroethane	50.0	40.0	80	60-129
Chloroform	50.0	49.8	100	74-129
Chloromethane	50.0	35.0	70	43-126
2-Chlorotoluene	50.0	47.9	96	67-121
4-Chlorotoluene	50.0	49.2	98	68-121
Dibromochloromethane	50.0	49.6	99	71-130
1,2-Dibromoethane (EDB)	50.0	51.4	103	74-125
Dibromomethane	50.0	51.8	104	76-119
1,2-Dichlorobenzene	50.0	51.5	103	76-117
1,3-Dichlorobenzene	50.0	51.4	103	73-120
1,4-Dichlorobenzene	50.0	50.5	101	73-119
trans-1,4-Dichloro-2-butene	50.0	47.4	95	46-133
Dichlorodifluoromethane	50.0	29.1	58	14-130
1,1-Dichloroethane	50.0	48.4	97	68-127
1,2-Dichloroethane	50.0	48.3	97	73-128
1,1-Dichloroethene	50.0	51.6	103	65-123
cis-1,2-Dichloroethene	50.0	52.6	105	72-127
trans-1,2-Dichloroethene	50.0	50.4	101	71-125
1,2-Dichloropropane	50.0	48.0	96	79-117
1,3-Dichloropropane	50.0	52.6	105	76-125
2,2-Dichloropropane	50.0	46.7	93	46-134
1,1-Dichloropropene	50.0	43.2	86	74-115
cis-1,3-Dichloropropene	50.0	52.6	105	65-134
trans-1,3-Dichloropropene	50.0	49.1	98	54-139
1,4-Diethylbenzene	50.0	47.8	96	65-124
Ethanol	1250	1080	86	26-186
Ethylbenzene	50.0	47.9	96	70-120
Hexachloro-1,3-butadiene	50.0	46.2	92	45-136
2-Hexanone	50.0	42.6	85	59-138
Isopropylbenzene (Cumene)	50.0	48.0	96	70-116
p-Isopropyltoluene	50.0	51.8	104	70-121
Methylene Chloride	50.0	48.2	96	69-126

MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York
Lab Sample ID: 1121101LCS
Date Extracted: 08/18/2021
Date Analyzed (1): 08/18/2021
Instrument: 70MSV8
LCS Lot No: 116700
Lab File ID: 081821.B\P34002.D
SDG No.: 70184112

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
4-Methyl-2-pentanone (MIBK)	50.0	47.4	95	70-129
Methyl-tert-butyl ether	50.0	46.2	92	73-124
Naphthalene	50.0	58.6	117	55-129
n-Propylbenzene	50.0	49.7	99	69-119
Styrene	50.0	52.7	105	80-121
1,1,1,2-Tetrachloroethane	50.0	51.7	103	66-133
1,1,2,2-Tetrachloroethane	50.0	54.2	108	75-122
Tetrachloroethene	50.0	46.3	93	65-120
1,2,4,5-tetramethylbenzene	50.0	52.9	106	63-122
Toluene	50.0	48.5	97	77-120
1,2,3-Trichlorobenzene	50.0	53.1	106	53-123
1,2,4-Trichlorobenzene	50.0	54.4	109	60-124
1,1,1-Trichloroethane	50.0	44.1	88	62-121
1,1,2-Trichloroethane	50.0	50.3	101	80-122
Trichloroethene	50.0	46.4	93	73-116
Trichlorofluoromethane	50.0	43.1	86	59-134
1,2,3-Trichloropropane	50.0	49.2	98	63-123
1,2,4-Trimethylbenzene	50.0	51.0	102	72-117
1,3,5-Trimethylbenzene	50.0	51.4	103	69-117
Vinyl chloride	50.0	37.7	75	50-130
Xylene (Total)	150	150	100	73-120
m&p-Xylene	100	99.4	99	73-120
o-Xylene	50.0	51.0	102	74-119

Spike Recovery: 0 out of 70 outside limits.

SAMPLE NOT IN SDG - NOT EVALUATED

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York
Matrix Spike - Sample No: 1121102MS
Date Extracted: 08/18/2021
Date Analyzed (1): 08/18/2021
Instrument: 70MSV8
Lab File ID: 081821.B\P34023.D
Parent Sample ID: 70183880004
SDG No.: 70184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	<1.0	50.9	102	60-127
1,1,1-Trichloroethane	50.0	<1.0	46.0	92	60-127
1,1,2,2-Tetrachloroethane	50.0	<1.0	53.1	106	74-118
1,1,2-Trichloroethane	50.0	<1.0	48.2	96	80-120
1,1-Dichloroethane	50.0	<1.0	48.2	96	69-131
1,1-Dichloroethene	50.0	<1.0	49.9	100	70-129
1,1-Dichloropropene	50.0	<1.0	45.5	91	78-118
1,2,3-Trichlorobenzene	50.0	<1.0	53.1	106	48-128
1,2,3-Trichloropropane	50.0	<1.0	47.4	95	60-120
1,2,4,5-tetramethylbenzene	50.0	<1.0	50.1	100	60-125
1,2,4-Trichlorobenzene	50.0	<1.0	51.9	104	54-129
1,2,4-Trimethylbenzene	50.0	<1.0	49.1	98	66-122
1,2-Dibromoethane (EDB)	50.0	<1.0	48.2	96	67-128
1,2-Dichlorobenzene	50.0	<1.0	50.2	100	73-117
1,2-Dichloroethane	50.0	<1.0	45.9	92	70-129
1,2-Dichloropropane	50.0	<1.0	47.2	94	77-118
1,3,5-Trimethylbenzene	50.0	<1.0	50.0	100	67-119
1,3-Dichlorobenzene	50.0	<1.0	50.8	102	72-121
1,3-Dichloropropane	50.0	<1.0	48.9	98	75-117
1,4-Dichlorobenzene	50.0	<1.0	49.8	100	70-120
1,4-Diethylbenzene	50.0	<1.0	48.6	97	68-123
2,2-Dichloropropane	50.0	<1.0	45.6	91	38-132
2-Butanone (MEK)	50.0	<5.0	37.1	74	15-159
2-Chlorotoluene	50.0	<1.0	48.6	97	68-117
2-Hexanone	50.0	<5.0	41.1	82	60-127
4-Chlorotoluene	50.0	<1.0	49.3	99	66-121
4-Methyl-2-pentanone (MIBK)	50.0	<5.0	45.2	90	66-129
Acetone	50.0	<5.0	32.4	65	10-189
Benzene	50.0	<1.0	48.7	97	74-126
Bromobenzene	50.0	<1.0	49.3	99	66-122
Bromochloromethane	50.0	<1.0	53.1	106	69-132
Bromodichloromethane	50.0	<1.0	48.6	97	71-125
Bromoform	50.0	<1.0	48.8	98	40-128
Bromomethane	50.0	<1.0	39.9	80	10-179
Carbon disulfide	50.0	<1.0	43.7	87	60-131
Carbon tetrachloride	50.0	<1.0	53.1	106	64-125
Chlorobenzene	50.0	<1.0	50.7	101	72-121
Chlorodifluoromethane	50.0	<1.0	32.7	65	44-123
Chloroethane	50.0	<1.0	40.0	80	54-137
Chloroform	50.0	6.1	56.2	100	73-128
Chloromethane	50.0	<1.0	29.6	59	45-123
Dibromochloromethane	50.0	<1.0	50.1	100	59-132
Dibromomethane	50.0	<1.0	48.6	97	69-122
Dichlorodifluoromethane	50.0	<1.0	18.1	36	10-131
Ethanol	1250	<250	879	70	10-183
Ethylbenzene	50.0	<1.0	51.7	103	67-126
Hexachloro-1,3-butadiene	50.0	<1.0	41.2	82	30-144

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York
Matrix Spike - Sample No: 1121102MS
Date Extracted: 08/18/2021
Date Analyzed (1): 08/18/2021
Instrument: 70MSV8
Lab File ID: 081821.B\P34023.D
Parent Sample ID: 70183880004
SDG No.: 70184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Isopropylbenzene (Cumene)	50.0	<1.0	51.8	104	66-120
Methyl-tert-butyl ether	50.0	<1.0	43.3	87	60-127
Methylene Chloride	50.0	<1.0	48.4	97	65-129
Naphthalene	50.0	<1.0	53.1	106	56-129
Styrene	50.0	<1.0	51.1	102	74-121
Tetrachloroethene	50.0	11.0	58.3	95	59-131
Toluene	50.0	<1.0	49.5	99	76-124
Trichloroethene	50.0	<1.0	49.1	98	78-119
Trichlorofluoromethane	50.0	<1.0	43.9	88	59-136
Vinyl chloride	50.0	<1.0	35.1	70	45-141
Xylene (Total)	150	<3.0	154	102	69-125
cis-1,2-Dichloroethene	50.0	<1.0	53.9	108	72-129
cis-1,3-Dichloropropene	50.0	<1.0	48.2	96	57-130
m&p-Xylene	100	<2.0	103	103	68-127
n-Butylbenzene	50.0	<1.0	50.2	100	65-129
n-Propylbenzene	50.0	<1.0	51.6	103	62-127
o-Xylene	50.0	<1.0	51.1	102	66-129
p-Isopropyltoluene	50.0	<1.0	49.8	100	66-125
sec-Butylbenzene	50.0	<1.0	50.7	101	66-127
tert-Butylbenzene	50.0	<1.0	50.5	101	68-121
trans-1,2-Dichloroethene	50.0	<1.0	49.6	99	74-129
trans-1,3-Dichloropropene	50.0	<1.0	44.8	90	42-140
trans-1,4-Dichloro-2-butene	50.0	<1.0	44.0	88	10-144

Spike Recovery: 0 out of 70 outside limits.

09/08/2021 3:34

MSV - FORM III VOA-3

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 70MSV8 Matrix Spike Duplicate - Sample No: 1121103MSD

Lab File ID (2): 081821.B\P34024.D Date Analyzed (2): 08/18/2021

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
1,1,1,2-Tetrachloroethane	50.0	53.4	107	5	0-20	60-127
1,1,1-Trichloroethane	50.0	49.8	100	8	0-20	60-127
1,1,2,2-Tetrachloroethane	50.0	55.7	111	5	0-20	74-118
1,1,2-Trichloroethane	50.0	51.3	103	6	0-20	80-120
1,1-Dichloroethane	50.0	51.4	103	6	0-20	69-131
1,1-Dichloroethene	50.0	52.1	104	4	0-20	70-129
1,1-Dichloropropene	50.0	49.4	99	8	0-20	78-118
1,2,3-Trichlorobenzene	50.0	59.8	120	12	0-20	48-128
1,2,3-Trichloropropane	50.0	49.7	99	5	0-20	60-120
1,2,4,5-tetramethylbenzene	50.0	53.6	107	7	0-20	60-125
1,2,4-Trichlorobenzene	50.0	57.3	115	10	0-20	54-129
1,2,4-Trimethylbenzene	50.0	52.1	104	6	0-20	66-122
1,2-Dibromoethane (EDB)	50.0	52.7	105	9	0-20	67-128
1,2-Dichlorobenzene	50.0	53.1	106	6	0-20	73-117
1,2-Dichloroethane	50.0	49.7	99	8	0-20	70-129
1,2-Dichloropropane	50.0	50.6	101	7	0-20	77-118
1,3,5-Trimethylbenzene	50.0	52.3	105	4	0-20	67-119
1,3-Dichlorobenzene	50.0	53.9	108	6	0-20	72-121
1,3-Dichloropropane	50.0	52.9	106	8	0-20	75-117
1,4-Dichlorobenzene	50.0	52.1	104	4	0-20	70-120
1,4-Diethylbenzene	50.0	51.7	103	6	0-20	68-123
2,2-Dichloropropane	50.0	47.4	95	4	0-20	38-132
2-Butanone (MEK)	50.0	42.3	85	13	0-20	15-159
2-Chlorotoluene	50.0	52.4	105	7	0-20	68-117
2-Hexanone	50.0	45.8	92	11	0-20	60-127
4-Chlorotoluene	50.0	52.0	104	5	0-20	66-121
4-Methyl-2-pentanone (MIBK)	50.0	49.8	100	10	0-20	66-129
Acetone	50.0	36.1	72	11	0-20	10-189
Benzene	50.0	51.9	104	6	0-20	74-126
Bromobenzene	50.0	52.3	105	6	0-20	66-122
Bromochloromethane	50.0	53.1	106	0	0-20	69-132
Bromodichloromethane	50.0	51.6	103	6	0-20	71-125
Bromoform	50.0	52.2	104	7	0-20	40-128
Bromomethane	50.0	48.9	98	20	0-20	10-179
Carbon disulfide	50.0	45.2	90	3	0-20	60-131
Carbon tetrachloride	50.0	56.0	112	5	0-20	64-125
Chlorobenzene	50.0	53.6	107	6	0-20	72-121
Chlorodifluoromethane	50.0	34.2	68	4	0-20	44-123
Chloroethane	50.0	41.2	82	3	0-20	54-137
Chloroform	50.0	57.9	104	3	0-20	73-128
Chloromethane	50.0	31.0	62	4	0-20	45-123
Dibromochloromethane	50.0	54.5	109	8	0-20	59-132
Dibromomethane	50.0	51.8	104	6	0-20	69-122
Dichlorodifluoromethane	50.0	18.4	37	1	0-20	10-131
Ethanol	1250	979	78	11	0-20	10-183
Ethylbenzene	50.0	54.7	109	6	0-20	67-126
Hexachloro-1,3-butadiene	50.0	44.9	90	9	0-20	30-144
Isopropylbenzene (Cumene)	50.0	53.8	108	4	0-20	66-120
Methyl-tert-butyl ether	50.0	47.2	94	9	0-20	60-127

MSV - FORM III VOA-4

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Instrument (2): 70MSV8 Matrix Spike Duplicate - Sample No: 1121103MSD

Lab File ID (2): 081821.B\P34024.D Date Analyzed (2): 08/18/2021

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %REC	%RPD	QC LIMITS	
					RPD	REC.
Methylene Chloride	50.0	49.6	99	2	0-20	65-129
Naphthalene	50.0	61.7	123	15	0-20	56-129
Styrene	50.0	54.2	108	6	0-20	74-121
Tetrachloroethene	50.0	62.3	103	7	0-20	59-131
Toluene	50.0	52.6	105	6	0-20	76-124
Trichloroethene	50.0	52.4	105	6	0-20	78-119
Trichlorofluoromethane	50.0	45.6	91	4	0-20	59-136
Vinyl chloride	50.0	36.3	73	3	0-20	45-141
Xylene (Total)	150	161	107	5	0-20	69-125
cis-1,2-Dichloroethene	50.0	53.4	107	1	0-20	72-129
cis-1,3-Dichloropropene	50.0	51.1	102	6	0-20	57-130
m&p-Xylene	100	108	108	5	0-20	68-127
n-Butylbenzene	50.0	52.8	106	5	0-20	65-129
n-Propylbenzene	50.0	53.7	107	4	0-20	62-127
o-Xylene	50.0	52.9	106	4	0-20	66-129
p-Isopropyltoluene	50.0	52.6	105	5	0-20	66-125
sec-Butylbenzene	50.0	52.8	106	4	0-20	66-127
tert-Butylbenzene	50.0	53.3	107	5	0-20	68-121
trans-1,2-Dichloroethene	50.0	50.0	100	1	0-20	74-129
trans-1,3-Dichloropropene	50.0	49.2	98	9	0-20	42-140
trans-1,4-Dichloro-2-butene	50.0	50.3	101	13	0-20	10-144

RPD: 0 out of 70 outside limits.

Spike Recovery: 0 out of 70 outside limits.

09/08/2021 3:34

SAMPLE NO.

1123027BLANK

MSV - FORM IV VOA-1
VOLATILE METHOD BLANK SUMMARY

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Instrument ID: 70MSV8 Matrix: Water Lab Sample ID: 1123027

Lab File ID: 082021.B\P34053.D Date Analyzed: 08/20/2021 Time: 10:51

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	ANALYZED
1123028LCS	1123028	082021.B\P34054.D	08/20/2021 11:15
PZ-6	70184112023	082021.B\P34055.D	08/20/2021 12:11
PZ-5	70184112024	082021.B\P34056.D	08/20/2021 12:35
TP2-PZ-2	70184112011	082021.B\P34057.D	08/20/2021 12:59
TP2-PZ-1	70184112012	082021.B\P34058.D	08/20/2021 13:18
TP2-PZ-3	70184112013	082021.B\P34059.D	08/20/2021 13:38
A2-PZ-2	70184112014	082021.B\P34060.D	08/20/2021 13:57
A2-PZ1	70184112015	082021.B\P34061.D	08/20/2021 14:17
MW-18	70184112016	082021.B\P34062.D	08/20/2021 14:36
MW-20	70184112017	082021.B\P34063.D	08/20/2021 14:56
MW-21	70184112018	082021.B\P34064.D	08/20/2021 15:15
PZ-11R	70184112019	082021.B\P34065.D	08/20/2021 15:35
PZ-13R	70184112020	082021.B\P34066.D	08/20/2021 15:54
TP2-PZ-4	70184112021	082021.B\P34067.D	08/20/2021 16:13
PZ-8	70184112022	082021.B\P34068.D	08/20/2021 16:33
TP1-PZ2	70184112009	082021.B\P34069.D	08/20/2021 16:52
TP1-PZ4	70184112010	082021.B\P34070.D	08/20/2021 17:12
A2-PZ1	70184112015	082021.B\P34071.D	08/20/2021 17:31
A2-PZ-2	70184112014	082021.B\P34072.D	08/20/2021 17:50
1124235DUP	1124235	082021.B\P34074.D	08/20/2021 18:29
1124236MS	1124236	082021.B\P34075.D	08/20/2021 18:49
TP1-PZ4	70184112010	082021.B\P34076.D	08/20/2021 19:28

SAMPLE NO.

BLANK

MSV - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York Contract: LMC UTICA 8/11

Date Received: Matrix: Water SDG No.: 70184112

Date Extracted: 08/20/2021 10:51 Lab Sample ID: 1123027

Date Analyzed: 08/20/2021 10:51 Lab File ID: 082021.B\P34053.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 70MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
67-64-1	Acetone	<5.0	U
71-43-2	Benzene	<1.0	U
108-86-1	Bromobenzene	<1.0	U
74-97-5	Bromochloromethane	<1.0	U
75-27-4	Bromodichloromethane	<1.0	U
75-25-2	Bromoform	<1.0	U
74-83-9	Bromomethane	<1.0	U
78-93-3	2-Butanone (MEK)	<5.0	U
104-51-8	n-Butylbenzene	<1.0	U
135-98-8	sec-Butylbenzene	<1.0	U
98-06-6	tert-Butylbenzene	<1.0	U
75-15-0	Carbon disulfide	<1.0	U
56-23-5	Carbon tetrachloride	<1.0	U
108-90-7	Chlorobenzene	<1.0	U
75-45-6	Chlorodifluoromethane	<1.0	U
75-00-3	Chloroethane	<1.0	U
67-66-3	Chloroform	<1.0	U
74-87-3	Chloromethane	<1.0	U
95-49-8	2-Chlorotoluene	<1.0	U
106-43-4	4-Chlorotoluene	<1.0	U
124-48-1	Dibromochloromethane	<1.0	U
106-93-4	1,2-Dibromoethane (EDB)	<1.0	U
74-95-3	Dibromomethane	<1.0	U
95-50-1	1,2-Dichlorobenzene	<1.0	U
541-73-1	1,3-Dichlorobenzene	<1.0	U
106-46-7	1,4-Dichlorobenzene	<1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	U
75-71-8	Dichlorodifluoromethane	<1.0	U
75-34-3	1,1-Dichloroethane	<1.0	U
107-06-2	1,2-Dichloroethane	<1.0	U
75-35-4	1,1-Dichloroethene	<1.0	U
156-59-2	cis-1,2-Dichloroethene	<1.0	U
156-60-5	trans-1,2-Dichloroethene	<1.0	U
78-87-5	1,2-Dichloropropane	<1.0	U
142-28-9	1,3-Dichloropropane	<1.0	U
594-20-7	2,2-Dichloropropane	<1.0	U
563-58-6	1,1-Dichloropropene	<1.0	U

SAMPLE NO.

BLANK

MSV - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: Pace Analytical - New York Contract: LMC UTICA 8/11

Date Received: Matrix: Water SDG No.: 70184112

Date Extracted: 08/20/2021 10:51 Lab Sample ID: 1123027

Date Analyzed: 08/20/2021 10:51 Lab File ID: 082021.B\P34053.D

Initial wt/vol: 5 mL Final wt/vol: 5 mL Dilution: 1 Instrument: 70MSV8 Percent Moisture:

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
10061-01-5	cis-1,3-Dichloropropene	<1.0	U
10061-02-6	trans-1,3-Dichloropropene	<1.0	U
105-05-5	1,4-Diethylbenzene	<1.0	U
64-17-5	Ethanol	<250	U
100-41-4	Ethylbenzene	<1.0	U
87-68-3	Hexachloro-1,3-butadiene	<1.0	U
591-78-6	2-Hexanone	<5.0	U
98-82-8	Isopropylbenzene (Cumene)	<1.0	U
99-87-6	p-Isopropyltoluene	<1.0	U
75-09-2	Methylene Chloride	<1.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	U
1634-04-4	Methyl-tert-butyl ether	<1.0	U
91-20-3	Naphthalene	<1.0	U
103-65-1	n-Propylbenzene	<1.0	U
100-42-5	Styrene	<1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	U
127-18-4	Tetrachloroethene	<1.0	U
95-93-2	1,2,4,5-tetramethylbenzene	<1.0	U
108-88-3	Toluene	<1.0	U
87-61-6	1,2,3-Trichlorobenzene	<1.0	U
120-82-1	1,2,4-Trichlorobenzene	<1.0	U
71-55-6	1,1,1-Trichloroethane	<1.0	U
79-00-5	1,1,2-Trichloroethane	<1.0	U
79-01-6	Trichloroethene	<1.0	U
75-69-4	Trichlorofluoromethane	<1.0	U
96-18-4	1,2,3-Trichloropropane	<1.0	U
95-63-6	1,2,4-Trimethylbenzene	<1.0	U
108-67-8	1,3,5-Trimethylbenzene	<1.0	U
75-01-4	Vinyl chloride	<1.0	U
1330-20-7	Xylene (Total)	<3.0	U
179601-23-1	m&p-Xylene	<2.0	U
95-47-6	o-Xylene	<1.0	U

MSV - FORM III VOA-1

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York
Lab Sample ID: 1123028LCS
Date Extracted: 08/20/2021
Date Analyzed (1): 08/20/2021
Instrument: 70MSV8
LCS Lot No: 116700
Lab File ID: 082021.B\P34054.D
SDG No.: 70184112

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
Acetone	50.0	36.0	72	10-225
Benzene	50.0	50.9	102	73-121
Bromobenzene	50.0	49.4	99	70-120
Bromochloromethane	50.0	52.5	105	75-130
Bromodichloromethane	50.0	49.3	99	74-127
Bromoform	50.0	56.0	112	55-128
Bromomethane	50.0	49.6	99	12-176
2-Butanone (MEK)	50.0	53.0	106	28-169
n-Butylbenzene	50.0	51.7	103	66-126
sec-Butylbenzene	50.0	49.2	98	68-120
tert-Butylbenzene	50.0	48.1	96	72-115
Carbon disulfide	50.0	45.5	91	57-129
Carbon tetrachloride	50.0	50.5	101	64-122
Chlorobenzene	50.0	51.0	102	76-117
Chlorodifluoromethane	50.0	33.1	66	42-122
Chloroethane	50.0	39.0	78	60-129
Chloroform	50.0	49.2	98	74-129
Chloromethane	50.0	31.8	64	43-126
2-Chlorotoluene	50.0	48.8	98	67-121
4-Chlorotoluene	50.0	48.3	97	68-121
Dibromochloromethane	50.0	50.4	101	71-130
1,2-Dibromoethane (EDB)	50.0	52.1	104	74-125
Dibromomethane	50.0	51.8	104	76-119
1,2-Dichlorobenzene	50.0	50.4	101	76-117
1,3-Dichlorobenzene	50.0	50.8	102	73-120
1,4-Dichlorobenzene	50.0	49.9	100	73-119
trans-1,4-Dichloro-2-butene	50.0	45.2	90	46-133
Dichlorodifluoromethane	50.0	23.6	47	14-130
1,1-Dichloroethane	50.0	47.9	96	68-127
1,2-Dichloroethane	50.0	48.8	98	73-128
1,1-Dichloroethene	50.0	50.3	101	65-123
cis-1,2-Dichloroethene	50.0	53.6	107	72-127
trans-1,2-Dichloroethene	50.0	49.9	100	71-125
1,2-Dichloropropane	50.0	48.7	97	79-117
1,3-Dichloropropane	50.0	53.0	106	76-125
2,2-Dichloropropane	50.0	45.5	91	46-134
1,1-Dichloropropene	50.0	42.5	85	74-115
cis-1,3-Dichloropropene	50.0	51.6	103	65-134
trans-1,3-Dichloropropene	50.0	49.7	99	54-139
1,4-Diethylbenzene	50.0	47.1	94	65-124
Ethanol	1250	1070	86	26-186
Ethylbenzene	50.0	49.3	99	70-120
Hexachloro-1,3-butadiene	50.0	47.4	95	45-136
2-Hexanone	50.0	43.2	86	59-138
Isopropylbenzene (Cumene)	50.0	47.3	95	70-116
p-Isopropyltoluene	50.0	51.6	103	70-121
Methylene Chloride	50.0	48.1	96	69-126

MSV - FORM III VOA-2

WATER LABORATORY CONTROL SAMPLE RECOVERY

Lab Name: Pace Analytical - New York
Lab Sample ID: 1123028LCS
Date Extracted: 08/20/2021
Date Analyzed (1): 08/20/2021
Instrument: 70MSV8
LCS Lot No: 116700
Lab File ID: 082021.B\P34054.D
SDG No.: 70184112

COMPOUND	AMOUNT ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS %REC	QC LIMITS REC.
4-Methyl-2-pentanone (MIBK)	50.0	48.9	98	70-129
Methyl-tert-butyl ether	50.0	46.1	92	73-124
Naphthalene	50.0	59.4	119	55-129
n-Propylbenzene	50.0	48.1	96	69-119
Styrene	50.0	52.4	105	80-121
1,1,1,2-Tetrachloroethane	50.0	51.9	104	66-133
1,1,2,2-Tetrachloroethane	50.0	53.2	106	75-122
Tetrachloroethene	50.0	45.9	92	65-120
1,2,4,5-tetramethylbenzene	50.0	52.7	105	63-122
Toluene	50.0	47.8	96	77-120
1,2,3-Trichlorobenzene	50.0	55.5	111	53-123
1,2,4-Trichlorobenzene	50.0	55.6	111	60-124
1,1,1-Trichloroethane	50.0	44.4	89	62-121
1,1,2-Trichloroethane	50.0	49.8	100	80-122
Trichloroethene	50.0	45.9	92	73-116
Trichlorofluoromethane	50.0	40.5	81	59-134
1,2,3-Trichloropropane	50.0	47.5	95	63-123
1,2,4-Trimethylbenzene	50.0	50.4	101	72-117
1,3,5-Trimethylbenzene	50.0	51.0	102	69-117
Vinyl chloride	50.0	35.1	70	50-130
Xylene (Total)	150	148	99	73-120
m&p-Xylene	100	97.9	98	73-120
o-Xylene	50.0	50.0	100	74-119

Spike Recovery: 0 out of 70 outside limits.

09/07/2021 8:51

MSV - FORM III VOA-1

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York | Matrix Spike - Sample No: 1124236MS

Date Extracted: 08/20/2021 | Date Analyzed (1): 08/20/2021

Instrument: 70MSV8 | Lab File ID: 082021.B\P34075.D

Parent Sample ID: TP2-PZ-4 | SDG No.: 70184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	<1.0	54.8	110	60-127
1,1,1-Trichloroethane	50.0	<1.0	47.4	95	60-127
1,1,2,2-Tetrachloroethane	50.0	<1.0	56.3	113	74-118
1,1,2-Trichloroethane	50.0	<1.0	54.4	109	80-120
1,1-Dichloroethane	50.0	<1.0	50.0	100	69-131
1,1-Dichloroethene	50.0	<1.0	56.9	114	70-129
1,1-Dichloropropene	50.0	<1.0	45.5	91	78-118
1,2,3-Trichlorobenzene	50.0	<1.0	52.5	105	48-128
1,2,3-Trichloropropane	50.0	<1.0	50.6	101	60-120
1,2,4,5-tetramethylbenzene	50.0	<1.0	49.5	99	60-125
1,2,4-Trichlorobenzene	50.0	<1.0	51.9	104	54-129
1,2,4-Trimethylbenzene	50.0	<1.0	51.3	103	66-122
1,2-Dibromoethane (EDB)	50.0	<1.0	54.0	108	67-128
1,2-Dichlorobenzene	50.0	<1.0	53.3	107	73-117
1,2-Dichloroethane	50.0	<1.0	50.2	100	70-129
1,2-Dichloropropane	50.0	<1.0	50.9	102	77-118
1,3,5-Trimethylbenzene	50.0	<1.0	52.3	105	67-119
1,3-Dichlorobenzene	50.0	<1.0	51.3	103	72-121
1,3-Dichloropropane	50.0	<1.0	54.8	110	75-117
1,4-Dichlorobenzene	50.0	<1.0	52.0	104	70-120
1,4-Diethylbenzene	50.0	<1.0	45.9	92	68-123
2,2-Dichloropropane	50.0	<1.0	48.0	96	38-132
2-Butanone (MEK)	50.0	<5.0	54.8	110	15-159
2-Chlorotoluene	50.0	<1.0	50.6	101	68-117
2-Hexanone	50.0	<5.0	47.1	94	60-127
4-Chlorotoluene	50.0	<1.0	50.7	101	66-121
4-Methyl-2-pentanone (MIBK)	50.0	<5.0	50.9	102	66-129
Acetone	50.0	<5.0	36.8	74	10-189
Benzene	50.0	<1.0	53.7	107	74-126
Bromobenzene	50.0	<1.0	51.6	103	66-122
Bromochloromethane	50.0	<1.0	54.0	108	69-132
Bromodichloromethane	50.0	<1.0	50.8	102	71-125
Bromoform	50.0	<1.0	57.9	116	40-128
Bromomethane	50.0	<1.0	44.9	90	10-179
Carbon disulfide	50.0	<1.0	49.3	99	60-131
Carbon tetrachloride	50.0	<1.0	54.5	109	64-125
Chlorobenzene	50.0	<1.0	53.4	107	72-121
Chlorodifluoromethane	50.0	<1.0	36.5	73	44-123
Chloroethane	50.0	<1.0	41.4	83	54-137
Chloroform	50.0	<1.0	52.6	105	73-128
Chloromethane	50.0	<1.0	34.7	69	45-123
Dibromochloromethane	50.0	<1.0	52.5	105	59-132
Dibromomethane	50.0	<1.0	55.4	111	69-122
Dichlorodifluoromethane	50.0	<1.0	25.3	51	10-131
Ethanol	1250	<250	862	69	10-183
Ethylbenzene	50.0	<1.0	52.6	105	67-126
Hexachloro-1,3-butadiene	50.0	<1.0	34.7	69	30-144

MSV - FORM III VOA-2

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York
Matrix Spike - Sample No: 1124236MS
Date Extracted: 08/20/2021
Date Analyzed (1): 08/20/2021
Instrument: 70MSV8
Lab File ID: 082021.B\P34075.D
Parent Sample ID: TP2-PZ-4
SDG No.: 70184112

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS %REC	QC LIMITS REC.
Isopropylbenzene (Cumene)	50.0	<1.0	50.3	101	66-120
Methyl-tert-butyl ether	50.0	<1.0	48.1	96	60-127
Methylene Chloride	50.0	<1.0	49.5	99	65-129
Naphthalene	50.0	<1.0	60.0	120	56-129
Styrene	50.0	<1.0	56.2	112	74-121
Tetrachloroethene	50.0	<1.0	50.6	101	59-131
Toluene	50.0	<1.0	51.4	103	76-124
Trichloroethene	50.0	<1.0	50.0	100	78-119
Trichlorofluoromethane	50.0	<1.0	45.2	90	59-136
Vinyl chloride	50.0	<1.0	38.2	76	45-141
Xylene (Total)	150	<3.0	159	106	69-125
cis-1,2-Dichloroethene	50.0	<1.0	56.2	112	72-129
cis-1,3-Dichloropropene	50.0	<1.0	52.1	104	57-130
m&p-Xylene	100	<2.0	106	106	68-127
n-Butylbenzene	50.0	<1.0	48.0	96	65-129
n-Propylbenzene	50.0	<1.0	51.1	102	62-127
o-Xylene	50.0	<1.0	53.4	107	66-129
p-Isopropyltoluene	50.0	<1.0	50.1	100	66-125
sec-Butylbenzene	50.0	<1.0	49.0	98	66-127
tert-Butylbenzene	50.0	<1.0	49.6	99	68-121
trans-1,2-Dichloroethene	50.0	<1.0	53.7	107	74-129
trans-1,3-Dichloropropene	50.0	<1.0	50.5	101	42-140
trans-1,4-Dichloro-2-butene	50.0	<1.0	45.5	91	10-144

Spike Recovery: 0 out of 70 outside limits.

09/08/2021 3:34

MSV - FORM III VOA-1

WATER VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York
Duplicate Sample No: 70184112022DUP
Date Extracted: 08/20/2021
Date Analyzed: 08/20/2021
Instrument: 70MSV8
Lab File ID: 082021.B\P34074.D
Lab Sample ID: PZ-8
SDG No.: 70184112

COMPOUND	SAMPLE CONCENTRATION (ug/L)	DUPLICATE CONCENTRATION (ug/L)	RPD	RPD LIMITS
1,1,1,2-Tetrachloroethane	<1.0	<1.0		0-20
1,1,1-Trichloroethane	<1.0	<1.0		0-20
1,1,2,2-Tetrachloroethane	<1.0	<1.0		0-20
1,1,2-Trichloroethane	<1.0	<1.0		0-20
1,1-Dichloroethane	2.5	2.4	2	0-20
1,1-Dichloroethene	<1.0	<1.0		0-20
1,1-Dichloropropene	<1.0	<1.0		0-20
1,2,3-Trichlorobenzene	<1.0	<1.0		0-20
1,2,3-Trichloropropane	<1.0	<1.0		0-20
1,2,4,5-tetramethylbenzene	<1.0	<1.0		0-20
1,2,4-Trichlorobenzene	<1.0	<1.0		0-20
1,2,4-Trimethylbenzene	<1.0	<1.0		0-20
1,2-Dibromoethane (EDB)	<1.0	<1.0		0-20
1,2-Dichlorobenzene	<1.0	<1.0		0-20
1,2-Dichloroethane	<1.0	<1.0		0-20
1,2-Dichloropropane	<1.0	<1.0		0-20
1,3,5-Trimethylbenzene	<1.0	<1.0		0-20
1,3-Dichlorobenzene	<1.0	<1.0		0-20
1,3-Dichloropropane	<1.0	<1.0		0-20
1,4-Dichlorobenzene	<1.0	<1.0		0-20
1,4-Diethylbenzene	<1.0	<1.0		0-20
2,2-Dichloropropane	<1.0	<1.0		0-20
2-Butanone (MEK)	<5.0	<5.0		0-20
2-Chlorotoluene	<1.0	<1.0		0-20
2-Hexanone	<5.0	<5.0		0-20
4-Chlorotoluene	<1.0	<1.0		0-20
4-Methyl-2-pentanone (MIBK)	<5.0	<5.0		0-20
Acetone	<5.0	<5.0		0-20
Benzene	<1.0	<1.0		0-20
Bromobenzene	<1.0	<1.0		0-20
Bromochloromethane	<1.0	<1.0		0-20
Bromodichloromethane	<1.0	<1.0		0-20
Bromoform	<1.0	<1.0		0-20
Bromomethane	<1.0	<1.0		0-20
Carbon disulfide	<1.0	<1.0		0-20
Carbon tetrachloride	<1.0	<1.0		0-20
Chlorobenzene	<1.0	<1.0		0-20
Chlorodifluoromethane	<1.0	<1.0		0-20
Chloroethane	<1.0	<1.0		0-20
Chloroform	<1.0	<1.0		0-20
Chloromethane	<1.0	<1.0		0-20
Dibromochloromethane	<1.0	<1.0		0-20
Dibromomethane	<1.0	<1.0		0-20
Dichlorodifluoromethane	<1.0	<1.0		0-20
Ethanol	<250	<250		0-20
Ethylbenzene	<1.0	<1.0		0-20
Hexachloro-1,3-butadiene	<1.0	<1.0		0-20

MSV - FORM III VOA-2

WATER VOLATILE SAMPLE/DUPLICATE RECOVERY

Lab Name: Pace Analytical - New York
Duplicate Sample No: 70184112022DUP
Date Extracted: 08/20/2021
Date Analyzed: 08/20/2021
Instrument: 70MSV8
Lab File ID: 082021.B\P34074.D
Lab Sample ID: PZ-8
SDG No.: 70184112

COMPOUND	SAMPLE CONCENTRATION (ug/L)	DUPLICATE CONCENTRATION (ug/L)	RPD	RPD LIMITS
Isopropylbenzene (Cumene)	<1.0	<1.0		0-20
Methyl-tert-butyl ether	<1.0	<1.0		0-20
Methylene Chloride	<1.0	<1.0		0-20
Naphthalene	<1.0	<1.0		0-20
Styrene	<1.0	<1.0		0-20
Tetrachloroethene	41.1	44.9	9	0-20
Toluene	<1.0	<1.0		0-20
Trichloroethene	96.2	98.7	3	0-20
Trichlorofluoromethane	<1.0	<1.0		0-20
Vinyl chloride	2.3	2.2	4	0-20
Xylene (Total)	<3.0	<3.0		0-20
cis-1,2-Dichloroethene	97.0	94.8	2	0-20
cis-1,3-Dichloropropene	<1.0	<1.0		0-20
m&p-Xylene	<2.0	<2.0		0-20
n-Butylbenzene	<1.0	<1.0		0-20
n-Propylbenzene	<1.0	<1.0		0-20
o-Xylene	<1.0	<1.0		0-20
p-Isopropyltoluene	<1.0	<1.0		0-20
sec-Butylbenzene	<1.0	<1.0		0-20
tert-Butylbenzene	<1.0	<1.0		0-20
trans-1,2-Dichloroethene	3.1	3.2	5	0-20
trans-1,3-Dichloropropene	<1.0	<1.0		0-20
trans-1,4-Dichloro-2-butene	<1.0	<1.0		0-20

RPD: 0 out of 6 outside limits.

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11
Lab File ID: 060921.B\P31432.D BFB Injection Date 06/09/2021
Instrument ID: 70MSV8 BFB Injection Time 15:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	17.26	
75	30.00 - 60.00% of mass 95	46.45	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.58	
173	Less than 2.00% of mass 174	0.85	(1.21)[1]
174	50.00 - 100.00% of mass 95	70.74	
175	5.00 - 9.00% of mass 174	5.49	(7.76)[1]
176	95.00 - 101.00% of mass 174	69.35	(98.04)[1]
177	5.00 - 9.00% of mass 176	4.66	(6.72)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15164442CAL1	15164442CAL1	060921.B\P31433.D	06/09/2021	16:08
15164436CAL2	15164436CAL2	060921.B\P31434.D	06/09/2021	16:28
15164443CAL3	15164443CAL3	060921.B\P31435.D	06/09/2021	16:47
15164438CAL4	15164438CAL4	060921.B\P31436.D	06/09/2021	17:07
15164439CAL5	15164439CAL5	060921.B\P31437.D	06/09/2021	17:26
15164437CAL6	15164437CAL6	060921.B\P31438.D	06/09/2021	17:45
15164441CAL7	15164441CAL7	060921.B\P31439.D	06/09/2021	18:05
15164440CAL8	15164440CAL8	060921.B\P31440.D	06/09/2021	18:24
15164450ICV	15164450ICV	060921.B\P31441.D	06/09/2021	19:14

MSV - FORM VI VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D
CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D
CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
Acetone	Linear			0.22869	0.19261	0.16489	0.12351
Benzene	Averaged	0.87521	0.96918	1.11141	0.95624	1.02779	1.01962
Bromobenzene	Averaged		0.59040	0.63412	0.56603	0.61720	0.59666
Bromochloromethane	Averaged		0.25189	0.20850	0.19186	0.20865	0.19311
Bromodichloromethane	Averaged		0.26989	0.34600	0.28718	0.30808	0.31868
Bromoform	Averaged		0.19084	0.22393	0.20184	0.21828	0.23803
Bromomethane	Averaged		0.17847	0.18590	0.16793	0.17503	0.17673
2-Butanone (MEK)	Averaged		0.38041	0.33713	0.28791	0.27701	0.26318
n-Butylbenzene	Averaged		2.48300	2.87007	2.48943	2.57793	2.69482
sec-Butylbenzene	Averaged		2.71112	3.15436	2.73048	2.79953	2.92593
tert-Butylbenzene	Averaged		1.72165	1.96434	1.77843	1.84017	1.90298
Carbon disulfide	Averaged		1.23913	1.40567	1.14953	1.26574	1.26485
Carbon tetrachloride	Averaged		0.25842	0.28397	0.28414	0.31423	0.31388
Chlorobenzene	Averaged		1.26586	1.45307	1.26090	1.36265	1.35373
Chlorodifluoromethane	Averaged		0.49176	0.60890	0.50206	0.55762	0.55241
Chloroethane	Averaged		0.38786	0.39057	0.32933	0.35717	0.33902
Chloroform	Averaged		0.74866	0.74220	0.68612	0.72596	0.72850
Chloromethane	Averaged		0.60697	0.63555	0.53772	0.60483	0.61576
2-Chlorotoluene	Averaged		2.04982	2.13341	1.86225	2.05860	1.96054
4-Chlorotoluene	Averaged		2.14587	2.34289	2.16971	2.23563	2.21520
Dibromochloromethane	Averaged		0.34394	0.42189	0.36612	0.39331	0.42567
1,2-Dibromoethane (EDB)	Averaged	0.18412	0.16893	0.22367	0.18827	0.19995	0.20510
Dibromomethane	Averaged		0.12793	0.14066	0.13238	0.13863	0.14582
1,2-Dichlorobenzene	Averaged		0.95268	1.13002	1.01076	1.05428	1.04933
1,3-Dichlorobenzene	Averaged		1.04588	1.18448	1.11514	1.15990	1.14115
1,4-Dichlorobenzene	Averaged		1.16194	1.24732	1.12247	1.16612	1.16033
trans-1,4-Dichloro-2-butene	Averaged		0.09281	0.12398	0.11260	0.11454	0.12293
Dichlorodifluoromethane	Averaged		0.53427	0.66194	0.52643	0.55044	0.58853
1,1-Dichloroethane	Averaged		0.73149	0.85502	0.74578	0.82702	0.82056
1,2-Dichloroethane	Averaged		0.49248	0.57865	0.48193	0.52890	0.53507
1,1-Dichloroethene	Averaged	0.34376	0.34764	0.40697	0.35971	0.36869	0.37029
cis-1,2-Dichloroethene	Averaged		0.39787	0.50874	0.44544	0.47641	0.48591
trans-1,2-Dichloroethene	Averaged		0.42578	0.45545	0.39175	0.41818	0.41571
1,2-Dichloropropane	Averaged		0.24720	0.28994	0.25667	0.27732	0.28623
1,3-Dichloropropane	Averaged		0.69963	0.82170	0.69365	0.75721	0.76866

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

MSV - FORM VI VOA-2
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D
CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D
CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
2,2-Dichloropropane	Averaged		0.48418	0.53454	0.47200	0.51427	0.52155
1,1-Dichloropropene	Averaged		0.40046	0.40187	0.35171	0.36032	0.36764
cis-1,3-Dichloropropene	Averaged	0.28523	0.33992	0.37333	0.35767	0.40140	0.40497
trans-1,3-Dichloropropene	Averaged	0.30311	0.29199	0.30037	0.28150	0.31803	0.33698
1,4-Diethylbenzene	Averaged		1.27800	1.39425	1.23603	1.26923	1.31930
Ethanol	Averaged			0.00212	0.00177	0.00187	0.00202
Ethylbenzene	Averaged		0.73572	0.85228	0.75693	0.75685	0.79011
Hexachloro-1,3-butadiene	Averaged		0.25194	0.30204	0.21748	0.22526	0.23704
2-Hexanone	Averaged		0.35189	0.35730	0.32124	0.30448	0.27962
Isopropylbenzene (Cumene)	Averaged		2.54532	2.82706	2.63939	2.74053	2.73699
p-Isopropyltoluene	Averaged		2.26212	2.51007	2.13818	2.27281	2.34682
Methylene Chloride	Averaged		0.46786	0.46653	0.40573	0.43136	0.42910
4-Methyl-2-pentanone (MIBK)	Averaged		0.21858	0.21571	0.20784	0.20088	0.21139
Methyl-tert-butyl ether	Averaged		1.15999	1.23330	1.07699	1.16220	1.19993
Naphthalene	Averaged		1.23817	1.18519	1.11763	1.14763	1.15664
n-Propylbenzene	Averaged		3.22758	3.71012	3.30712	3.41229	3.45299
Styrene	Averaged		1.30575	1.58295	1.40396	1.47411	1.49792
1,1,1,2-Tetrachloroethane	Averaged		0.37771	0.41883	0.39438	0.41194	0.43484
1,1,2,2-Tetrachloroethane	Averaged		0.51627	0.61831	0.56055	0.57887	0.58212
Tetrachloroethene	Averaged		0.50449	0.51175	0.50748	0.49870	0.49101
1,2,4,5-tetramethylbenzene	Averaged		1.68297	1.89734	1.70523	1.78332	1.87797
Toluene	Averaged		1.04226	1.19431	1.06029	1.14016	1.14032
1,2,3-Trichlorobenzene	Averaged		0.42555	0.40689	0.36861	0.39198	0.40411
1,2,4-Trichlorobenzene	Averaged		0.50483	0.52377	0.50095	0.50747	0.52104
1,1,1-Trichloroethane	Averaged		0.32614	0.34834	0.31743	0.33965	0.34111
1,1,2-Trichloroethane	Averaged		0.19697	0.18947	0.17747	0.18827	0.19320
Trichloroethene	Averaged		0.24613	0.28184	0.25152	0.25664	0.26104
Trichlorofluoromethane	Averaged		0.62171	0.70524	0.59645	0.66010	0.64243
1,2,3-Trichloropropane	Averaged	0.19409	0.16752	0.17077	0.15542	0.15541	0.15327
1,2,4-Trimethylbenzene	Averaged		2.04182	2.37171	2.14115	2.21651	2.24668
1,3,5-Trimethylbenzene	Averaged		1.95339	2.43048	2.11985	2.21707	2.22492
Vinyl chloride	Averaged		0.58550	0.73349	0.61311	0.65045	0.65304
m&p-Xylene	Averaged	0.86701	0.93988	1.01268	0.89212	0.94831	0.95193
o-Xylene	Averaged		0.84396	0.94123	0.83801	0.89445	0.92522
4-Bromofluorobenzene (S)	Averaged	0.87874	0.89070	0.88857	0.89185	0.88796	0.89270

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

MSV - FORM VI VOA-3

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL1	CAL2	CAL3	CAL4	CAL5	CAL6
1,2-Dichloroethane-d4 (S)	Averaged	0.33833	0.32941	0.33242	0.33427	0.32735	0.33225
Toluene-d8 (S)	Averaged	2.42588	2.40283	2.42642	2.44355	2.40572	2.42719

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-4
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL7	CAL8
Acetone	Linear	0.11428	0.11795
Benzene	Averaged	1.01042	1.03025
Bromobenzene	Averaged	0.60725	0.61383
Bromochloromethane	Averaged	0.18364	0.17738
Bromodichloromethane	Averaged	0.32155	0.33025
Bromoform	Averaged	0.24404	0.25098
Bromomethane	Averaged	0.20922	0.23849
2-Butanone (MEK)	Averaged	0.25462	0.26289
n-Butylbenzene	Averaged	2.73997	2.80112
sec-Butylbenzene	Averaged	2.95183	3.02077
tert-Butylbenzene	Averaged	1.93200	1.95952
Carbon disulfide	Averaged	1.24144	1.22407
Carbon tetrachloride	Averaged	0.31680	0.30929
Chlorobenzene	Averaged	1.36968	1.36062
Chlorodifluoromethane	Averaged	0.54480	0.52943
Chloroethane	Averaged	0.33248	0.31764
Chloroform	Averaged	0.72773	0.72095
Chloromethane	Averaged	0.60313	0.61144
2-Chlorotoluene	Averaged	2.03499	2.07113
4-Chlorotoluene	Averaged	2.25428	2.29784
Dibromochloromethane	Averaged	0.42993	0.43875
1,2-Dibromoethane (EDB)	Averaged	0.20318	0.21243
Dibromomethane	Averaged	0.14376	0.14645
1,2-Dichlorobenzene	Averaged	1.07016	1.10221
1,3-Dichlorobenzene	Averaged	1.15836	1.20441
1,4-Dichlorobenzene	Averaged	1.17107	1.21215
trans-1,4-Dichloro-2-butene	Averaged	0.12641	0.13513
Dichlorodifluoromethane	Averaged	0.58218	0.55176
1,1-Dichloroethane	Averaged	0.82182	0.81531
1,2-Dichloroethane	Averaged	0.53089	0.53686
1,1-Dichloroethene	Averaged	0.36293	0.36687
cis-1,2-Dichloroethene	Averaged	0.47686	0.47540
trans-1,2-Dichloroethene	Averaged	0.40698	0.41013
1,2-Dichloropropane	Averaged	0.28372	0.29031
1,3-Dichloropropane	Averaged	0.76719	0.76467

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-5
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL7	CAL8
2,2-Dichloropropane	Averaged	0.54014	0.55027
1,1-Dichloropropene	Averaged	0.35433	0.36314
cis-1,3-Dichloropropene	Averaged	0.41337	0.42971
trans-1,3-Dichloropropene	Averaged	0.34243	0.36615
1,4-Diethylbenzene	Averaged	1.35984	1.40669
Ethanol	Averaged	0.00203	0.00196
Ethylbenzene	Averaged	0.78890	0.79716
Hexachloro-1,3-butadiene	Averaged	0.23954	0.24932
2-Hexanone	Averaged	0.27373	0.28603
Isopropylbenzene (Cumene)	Averaged	2.79209	2.83130
p-Isopropyltoluene	Averaged	2.38353	2.46490
Methylene Chloride	Averaged	0.42623	0.42454
4-Methyl-2-pentanone (MIBK)	Averaged	0.20513	0.21385
Methyl-tert-butyl ether	Averaged	1.18655	1.19680
Naphthalene	Averaged	1.15845	1.21101
n-Propylbenzene	Averaged	3.47169	3.55575
Styrene	Averaged	1.51153	1.51862
1,1,1,2-Tetrachloroethane	Averaged	0.43487	0.44592
1,1,2,2-Tetrachloroethane	Averaged	0.59152	0.61017
Tetrachloroethene	Averaged	0.48656	0.48206
1,2,4,5-tetramethylbenzene	Averaged	1.92723	2.01039
Toluene	Averaged	1.12675	1.14828
1,2,3-Trichlorobenzene	Averaged	0.39723	0.41515
1,2,4-Trichlorobenzene	Averaged	0.53749	0.56222
1,1,1-Trichloroethane	Averaged	0.34358	0.35144
1,1,2-Trichloroethane	Averaged	0.19332	0.19801
Trichloroethene	Averaged	0.25637	0.26176
Trichlorofluoromethane	Averaged	0.63218	0.60496
1,2,3-Trichloropropane	Averaged	0.15412	0.15923
1,2,4-Trimethylbenzene	Averaged	2.28348	2.35248
1,3,5-Trimethylbenzene	Averaged	2.26632	2.35751
Vinyl chloride	Averaged	0.64898	0.63404
m&p-Xylene	Averaged	0.95482	0.96045
o-Xylene	Averaged	0.92157	0.91736
4-Bromofluorobenzene (S)	Averaged	0.90297	0.87965

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

MSV - FORM VI VOA-6

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	CAL7	CAL8
1,2-Dichloroethane-d4 (S)	Averaged	0.33103	0.33278
Toluene-d8 (S)	Averaged	2.44928	2.39846

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM VI VOA-7
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
Acetone	Linear		0.99836	0.01243564	0.11355	
Benzene	Averaged	6.86908			1.00002	
Bromobenzene	Averaged	3.62196			0.60364	
Bromochloromethane	Averaged	12.28526			0.20215	
Bromodichloromethane	Averaged	8.31436			0.31166	
Bromoform	Averaged	9.89898			0.22399	
Bromomethane	Averaged	13.15272			0.19025	
2-Butanone (MEK)	Averaged	15.86425			0.29474	
n-Butylbenzene	Averaged	5.70309			2.66519	
sec-Butylbenzene	Averaged	5.58222			2.89914	
tert-Butylbenzene	Averaged	5.02792			1.87130	
Carbon disulfide	Averaged	6.11889			1.25578	
Carbon tetrachloride	Averaged	7.45640			0.29725	
Chlorobenzene	Averaged	4.91045			1.34664	
Chlorodifluoromethane	Averaged	7.20099			0.54100	
Chloroethane	Averaged	8.25845			0.35058	
Chloroform	Averaged	2.75646			0.72573	
Chloromethane	Averaged	5.05948			0.60220	
2-Chlorotoluene	Averaged	4.34241			2.02439	
4-Chlorotoluene	Averaged	3.08155			2.23735	
Dibromochloromethane	Averaged	8.96039			0.40280	
1,2-Dibromoethane (EDB)	Averaged	8.69730			0.19821	
Dibromomethane	Averaged	5.01309			0.13938	
1,2-Dichlorobenzene	Averaged	5.55350			1.05278	
1,3-Dichlorobenzene	Averaged	4.54357			1.14419	
1,4-Dichlorobenzene	Averaged	3.43464			1.17734	
trans-1,4-Dichloro-2-butene	Averaged	11.43658			0.11834	
Dichlorodifluoromethane	Averaged	8.10152			0.57079	
1,1-Dichloroethane	Averaged	5.68430			0.80243	
1,2-Dichloroethane	Averaged	6.04186			0.52640	
1,1-Dichloroethene	Averaged	5.25313			0.36586	
cis-1,2-Dichloroethene	Averaged	7.62585			0.46666	
trans-1,2-Dichloroethene	Averaged	4.72808			0.41771	
1,2-Dichloropropane	Averaged	6.22079			0.27591	
1,3-Dichloropropane	Averaged	5.85986			0.75325	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

MSV - FORM VI VOA-8
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
2,2-Dichloropropane	Averaged	5.63135			0.51671	
1,1-Dichloropropene	Averaged	5.66707			0.37135	
cis-1,3-Dichloropropene	Averaged	12.58534			0.37570	
trans-1,3-Dichloropropene	Averaged	9.07585			0.31757	
1,4-Diethylbenzene	Averaged	4.96766			1.32333	
Ethanol	Averaged	6.40768			0.00196	
Ethylbenzene	Averaged	4.86107			0.78256	
Hexachloro-1,3-butadiene	Averaged	11.19292			0.24609	
2-Hexanone	Averaged	10.96443			0.31061	
Isopropylbenzene (Cumene)	Averaged	3.84161			2.73038	
p-Isopropyltoluene	Averaged	5.45594			2.33978	
Methylene Chloride	Averaged	5.26401			0.43591	
4-Methyl-2-pentanone (MIBK)	Averaged	2.96080			0.21048	
Methyl-tert-butyl ether	Averaged	4.20461			1.17368	
Naphthalene	Averaged	3.48336			1.17353	
n-Propylbenzene	Averaged	4.59473			3.44822	
Styrene	Averaged	6.14343			1.47069	
1,1,1,2-Tetrachloroethane	Averaged	5.84097			0.41693	
1,1,2,2-Tetrachloroethane	Averaged	5.87374			0.57969	
Tetrachloroethene	Averaged	2.25227			0.49744	
1,2,4,5-tetramethylbenzene	Averaged	6.55719			1.84063	
Toluene	Averaged	4.71323			1.12177	
1,2,3-Trichlorobenzene	Averaged	4.53849			0.40136	
1,2,4-Trichlorobenzene	Averaged	4.14026			0.52254	
1,1,1-Trichloroethane	Averaged	3.60981			0.33824	
1,1,2-Trichloroethane	Averaged	3.62763			0.19096	
Trichloroethene	Averaged	4.35893			0.25933	
Trichlorofluoromethane	Averaged	5.77889			0.63758	
1,2,3-Trichloropropane	Averaged	8.46865			0.16373	
1,2,4-Trimethylbenzene	Averaged	5.20963			2.23626	
1,3,5-Trimethylbenzene	Averaged	7.02230			2.22422	
Vinyl chloride	Averaged	7.10360			0.64551	
m&p-Xylene	Averaged	4.70945			0.94090	
o-Xylene	Averaged	4.56506			0.89740	
4-Bromofluorobenzene (S)	Averaged	0.86466			0.88914	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

MSV - FORM VI VOA-9

MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Instrument ID: 70MSV8 GC Column: Col 1 SDG No.: 70184112

Calibration Date(s): 06/09/2021 06/09/2021 Calibration Time(s): 16:08 18:24

LAB FILE ID

CAL1 = 060921.B\P31433.D CAL2 = 060921.B\P31434.D CAL3 = 060921.B\P31435.D

CAL4 = 060921.B\P31436.D CAL5 = 060921.B\P31437.D CAL6 = 060921.B\P31438.D

CAL7 = 060921.B\P31439.D CAL8 = 060921.B\P31440.D

COMPOUND	CURVE TYPE	%RSD	R2	A1	A2	A3
1,2-Dichloroethane-d4 (S)	Averaged	0.98463			0.33223	
Toluene-d8 (S)	Averaged	0.77310			2.42242	

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

15164450ICV

MSV - FORM VII VOA-1
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 06/09/2021 Time: 19:14

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 060921.B\P31441.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	78.72199	0.1000	57.4440*	30.0000
Benzene	Averaged	1.00002	0.98563	0.5000	-1.4384	30.0000
Bromobenzene	Averaged	0.60364	0.56244	0.0100	-6.8262	30.0000
Bromochloromethane	Averaged	0.20215	0.17442	0.0100	-13.7171	30.0000
Bromodichloromethane	Averaged	0.31166	0.28894	0.2000	-7.2903	30.0000
Bromoform	Averaged	0.22399	0.22365	0.1000	-0.1522	30.0000
Bromomethane	Averaged	0.19025	0.19494	0.1000	2.4624	30.0000
2-Butanone (MEK)	Averaged	0.29474	0.28947	0.1000	-1.7873	30.0000
n-Butylbenzene	Averaged	2.66519	2.55891	0.0100	-3.9878	30.0000
sec-Butylbenzene	Averaged	2.89914	2.70065	0.0100	-6.8466	30.0000
tert-Butylbenzene	Averaged	1.87130	1.76690	0.0100	-5.5791	30.0000
Carbon disulfide	Averaged	1.25578	1.09549	0.1000	-12.7641	30.0000
Carbon tetrachloride	Averaged	0.29725	0.29269	0.1000	-1.5323	30.0000
Chlorobenzene	Averaged	1.34664	1.25237	0.5000	-7.0006	30.0000
Chlorodifluoromethane	Averaged	0.54100	0.51387	0.0100	-5.0150	30.0000
Chloroethane	Averaged	0.35058	0.29988	0.1000	-14.4606	30.0000
Chloroform	Averaged	0.72573	0.66359	0.2000	-8.5622	30.0000
Chloromethane	Averaged	0.60220	0.52206	0.1000	-13.3070	30.0000
2-Chlorotoluene	Averaged	2.02439	1.99080	0.0100	-1.6594	30.0000
4-Chlorotoluene	Averaged	2.23735	2.11364	0.0100	-5.5291	30.0000
Dibromochloromethane	Averaged	0.40280	0.40525	0.1000	0.6074	30.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.19616	0.1000	-1.0303	30.0000
Dibromomethane	Averaged	0.13938	0.13655	0.0100	-2.0307	30.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.01102	0.4000	-3.9664	30.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.10387	0.6000	-3.5241	30.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.12126	0.5000	-4.7637	30.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11834	0.14244	0.0100	20.3652	30.0000
Dichlorodifluoromethane	Averaged	0.57079	0.46440	0.1000	-18.6391	30.0000
1,1-Dichloroethane	Averaged	0.80243	0.74977	0.2000	-6.5626	30.0000
1,2-Dichloroethane	Averaged	0.52640	0.48459	0.1000	-7.9430	30.0000
1,1-Dichloroethene	Averaged	0.36586	0.35991	0.1000	-1.6256	30.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.42982	0.1000	-7.8941	30.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.38502	0.1000	-7.8253	30.0000
1,2-Dichloropropane	Averaged	0.27591	0.27096	0.1000	-1.7939	30.0000
1,3-Dichloropropane	Averaged	0.75325	0.71708	0.0100	-4.8013	30.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

MSV - FORM VII VOA-2
MSV INITIAL CALIBRATION DATA

15164450ICV

Lab Name: Pace Analytical - New York Calibration Date: 06/09/2021 Time: 19:14

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 060921.B\P31441.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.51671	0.50065	0.0100	-3.1067	30.0000
1,1-Dichloropropene	Averaged	0.37135	0.33711	0.0100	-9.2207	30.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.39475	0.2000	5.0717	30.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.33732	0.1000	6.2202	30.0000
1,4-Diethylbenzene	Averaged	1.32333	1.31095	0.0100	-0.9356	30.0000
Ethanol	Averaged	0.00196	0.00195	0.0100	-0.8053	30.0000
Ethylbenzene	Averaged	0.78256	0.70682	0.1000	-9.6784	30.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.22724	0.0100	-7.6584	30.0000
2-Hexanone	Averaged	0.31061	0.39546	0.1000	27.3173	30.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.62025	0.1000	-4.0335	30.0000
p-Isopropyltoluene	Averaged	2.33978	2.22198	0.0100	-5.0346	30.0000
Methylene Chloride	Averaged	0.43591	0.37658	0.1000	-13.6090	30.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.21740	0.1000	3.2868	30.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.07652	0.1000	-8.2779	30.0000
Naphthalene	Averaged	1.17353	1.10886	0.0100	-5.5106	30.0000
n-Propylbenzene	Averaged	3.44822	3.18921	0.0100	-7.5114	30.0000
Styrene	Averaged	1.47069	1.38082	0.3000	-6.1110	30.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.39689	0.0100	-4.8049	30.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.59675	0.3000	2.9435	30.0000
Tetrachloroethene	Averaged	0.49744	0.45714	0.2000	-8.1011	30.0000
1,2,4,5-tetramethylbenzene	Averaged	1.84063	1.77433	0.0100	-3.6022	30.0000
Toluene	Averaged	1.12177	1.04979	0.4000	-6.4162	30.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.37156	0.0100	-7.4253	30.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.48531	0.2000	-7.1237	30.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.31383	0.1000	-7.2165	30.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.18303	0.1000	-4.1529	30.0000
Trichloroethene	Averaged	0.25933	0.23808	0.2000	-8.1923	30.0000
Trichlorofluoromethane	Averaged	0.63758	0.61403	0.1000	-3.6937	30.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.15104	0.0100	-7.7522	30.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.10801	0.0100	-5.7351	30.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.11175	0.0100	-5.0566	30.0000
Vinyl chloride	Averaged	0.64551	0.53276	0.1000	-17.4670	30.0000
m&p-Xylene	Averaged	0.94090	0.85549	0.1000	-9.0777	30.0000
o-Xylene	Averaged	0.89740	0.81382	0.3000	-9.3133	30.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.88377	0.0100	-0.6038	30.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

15164450ICV

MSV - FORM VII VOA-3
MSV INITIAL CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 06/09/2021 Time: 19:14

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 060921.B\P31441.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.33051	0.0100	-0.5172	30.0000
Toluene-d8 (S)	Averaged	2.42242	2.42312	0.0100	0.0289	30.0000

* - Value lies outside of established control limits.

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11
Lab File ID: 081821.B\P33999.D BFB Injection Date 08/18/2021
Instrument ID: 70MSV8 BFB Injection Time 08:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	16.48	
75	30.00 - 60.00% of mass 95	46.38	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.31	
173	Less than 2.00% of mass 174	0.94	(1.26)[1]
174	50.00 - 100.00% of mass 95	74.38	
175	5.00 - 9.00% of mass 174	5.64	(7.58)[1]
176	95.00 - 101.00% of mass 174	71.51	(96.14)[1]
177	5.00 - 9.00% of mass 176	4.74	(6.63)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15577767CCV	15577767CCV	081821.B\P34000.D	08/18/2021	09:27
1121100BLANK	1121100BLANK	081821.B\P34001.D	08/18/2021	10:43
1121101LCS	1121101LCS	081821.B\P34002.D	08/18/2021	11:16
TRIP BLANK	70184112028	081821.B\P34004.D	08/18/2021	12:30
CB#1	70184112025	081821.B\P34012.D	08/18/2021	15:05
CB#2	70184112026	081821.B\P34013.D	08/18/2021	15:25
CB#3	70184112027	081821.B\P34014.D	08/18/2021	15:44
MW-2	70184112001	081821.B\P34015.D	08/18/2021	16:04
MW-1	70184112002	081821.B\P34016.D	08/18/2021	16:23
MW-3	70184112003	081821.B\P34017.D	08/18/2021	16:42
MW-4	70184112004	081821.B\P34018.D	08/18/2021	17:02
MW-4-DUP	70184112005	081821.B\P34019.D	08/18/2021	17:21
MW-10	70184112006	081821.B\P34020.D	08/18/2021	17:41
TP1-PZ3	70184112007	081821.B\P34021.D	08/18/2021	18:00
TP1-PZ1	70184112008	081821.B\P34022.D	08/18/2021	18:20

SAMPLE NO.

15577767CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/18/2021 Time: 09:27

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081821.B\P34000.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	39.11775	0.1000	-21.7645	20.0000
Benzene	Averaged	1.00002	1.05914	0.5000	5.9123	20.0000
Bromobenzene	Averaged	0.60364	0.62142	0.0100	2.9446	20.0000
Bromochloromethane	Averaged	0.20215	0.21631	0.0100	7.0065	20.0000
Bromodichloromethane	Averaged	0.31166	0.31827	0.2000	2.1224	20.0000
Bromoform	Averaged	0.22399	0.25454	0.1000	13.6367	20.0000
Bromomethane	Averaged	0.19025	0.15606	0.1000	-17.9699	20.0000
2-Butanone (MEK)	Averaged	0.29474	0.30937	0.1000	4.9641	20.0000
n-Butylbenzene	Averaged	2.66519	2.87282	0.0100	7.7905	20.0000
sec-Butylbenzene	Averaged	2.89914	2.94103	0.0100	1.4447	20.0000
tert-Butylbenzene	Averaged	1.87130	1.87199	0.0100	0.0368	20.0000
Carbon disulfide	Averaged	1.25578	1.21292	0.1000	-3.4130	20.0000
Carbon tetrachloride	Averaged	0.29725	0.31769	0.1000	6.8767	20.0000
Chlorobenzene	Averaged	1.34664	1.44534	0.5000	7.3287	20.0000
Chlorodifluoromethane	Averaged	0.54100	0.39661	0.0100	-26.6888	20.0000
Chloroethane	Averaged	0.35058	0.29187	0.1000	-16.7477	20.0000
Chloroform	Averaged	0.72573	0.74460	0.2000	2.6005	20.0000
Chloromethane	Averaged	0.60220	0.41809	0.1000	-30.5720	20.0000
2-Chlorotoluene	Averaged	2.02439	1.99605	0.0100	-1.4001	20.0000
4-Chlorotoluene	Averaged	2.23735	2.29720	0.0100	2.6752	20.0000
Dibromochloromethane	Averaged	0.40280	0.42302	0.1000	5.0200	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.20751	0.1000	4.6919	20.0000
Dibromomethane	Averaged	0.13938	0.14923	0.0100	7.0712	20.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.10386	0.4000	4.8517	20.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.21731	0.6000	6.3904	20.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.24240	0.5000	5.5254	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11834	0.11202	0.0100	-5.3429	20.0000
Dichlorodifluoromethane	Averaged	0.57079	0.33830	0.1000	-40.7308	20.0000
1,1-Dichloroethane	Averaged	0.80243	0.78044	0.2000	-2.7405	20.0000
1,2-Dichloroethane	Averaged	0.52640	0.50979	0.1000	-3.1549	20.0000
1,1-Dichloroethene	Averaged	0.36586	0.38559	0.1000	5.3940	20.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.49337	0.1000	5.7223	20.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.43066	0.1000	3.1012	20.0000
1,2-Dichloropropane	Averaged	0.27591	0.27981	0.1000	1.4117	20.0000
1,3-Dichloropropane	Averaged	0.75325	0.82154	0.0100	9.0671	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

15577767CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/18/2021 Time: 09:27

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081821.B\P34000.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.51671	0.50589	0.0100	-2.0934	20.0000
1,1-Dichloropropene	Averaged	0.37135	0.33358	0.0100	-10.1713	20.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.40130	0.2000	6.8147	20.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.32837	0.1000	3.4014	20.0000
1,4-Diethylbenzene	Averaged	1.32333	1.32910	0.0100	0.4358	20.0000
Ethanol	Averaged	0.00196	0.00177	0.0100	-9.9922	20.0000
Ethylbenzene	Averaged	0.78256	0.81169	0.1000	3.7216	20.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.22924	0.0100	-6.8469	20.0000
2-Hexanone	Averaged	0.31061	0.27834	0.1000	-10.3890	20.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.66925	0.1000	-2.2389	20.0000
p-Isopropyltoluene	Averaged	2.33978	2.47033	0.0100	5.5798	20.0000
Methylene Chloride	Averaged	0.43591	0.42527	0.1000	-2.4392	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.20538	0.1000	-2.4236	20.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.08621	0.1000	-7.4527	20.0000
Naphthalene	Averaged	1.17353	1.38583	0.0100	18.0903	20.0000
n-Propylbenzene	Averaged	3.44822	3.52883	0.0100	2.3379	20.0000
Styrene	Averaged	1.47069	1.60482	0.3000	9.1200	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.44854	0.0100	7.5827	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.64373	0.3000	11.0477	20.0000
Tetrachloroethene	Averaged	0.49744	0.48809	0.2000	-1.8799	20.0000
1,2,4,5-tetramethylbenzene	Averaged	1.84063	2.00380	0.0100	8.8646	20.0000
Toluene	Averaged	1.12177	1.12319	0.4000	0.1272	20.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.43838	0.0100	9.2227	20.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.57952	0.2000	10.9040	20.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.31617	0.1000	-6.5260	20.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.19873	0.1000	4.0692	20.0000
Trichloroethene	Averaged	0.25933	0.25917	0.2000	-0.0611	20.0000
Trichlorofluoromethane	Averaged	0.63758	0.55534	0.1000	-12.8993	20.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.16172	0.0100	-1.2286	20.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.29081	0.0100	2.4393	20.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.36070	0.0100	6.1361	20.0000
Vinyl chloride	Averaged	0.64551	0.50402	0.1000	-21.9198	20.0000
m&p-Xylene	Averaged	0.94090	0.98133	0.1000	4.2975	20.0000
o-Xylene	Averaged	0.89740	0.93592	0.3000	4.2930	20.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.91135	0.0100	2.4977	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

15577767CCV

Lab Name: Pace Analytical - New York Calibration Date: 08/18/2021 Time: 09:27

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081821.B\P34000.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.31812	0.0100	-4.2479	20.0000
Toluene-d8 (S)	Averaged	2.42242	2.52059	0.0100	4.0528	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11
Lab File ID: 081921.B\P34025.D BFB Injection Date 08/19/2021
Instrument ID: 70MSV8 BFB Injection Time 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	16.61	
75	30.00 - 60.00% of mass 95	44.68	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.45	
173	Less than 2.00% of mass 174	0.99	(1.33)[1]
174	50.00 - 100.00% of mass 95	74.44	
175	5.00 - 9.00% of mass 174	5.69	(7.64)[1]
176	95.00 - 101.00% of mass 174	73.02	(98.10)[1]
177	5.00 - 9.00% of mass 176	4.67	(6.40)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15539856CCV	15539856CCV	081921.B\P34026.D	08/19/2021	10:09
TP1-PZ3	70184112007	081921.B\P34050.D	08/19/2021	19:37

1,1-DCA and cis-1,2-DCE only

SAMPLE NO.

15539856CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/19/2021 Time: 10:09

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081921.B\P34026.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	51.34164	0.1000	2.6833	20.0000
Benzene	Averaged	1.00002	1.06810	0.5000	6.8085	20.0000
Bromobenzene	Averaged	0.60364	0.60574	0.0100	0.3476	20.0000
Bromochloromethane	Averaged	0.20215	0.21857	0.0100	8.1251	20.0000
Bromodichloromethane	Averaged	0.31166	0.32561	0.2000	4.4758	20.0000
Bromoform	Averaged	0.22399	0.25464	0.1000	13.6849	20.0000
Bromomethane	Averaged	0.19025	0.20304	0.1000	6.7228	20.0000
2-Butanone (MEK)	Averaged	0.29474	0.33756	0.1000	14.5303	20.0000
n-Butylbenzene	Averaged	2.66519	2.84505	0.0100	6.7484	20.0000
sec-Butylbenzene	Averaged	2.89914	2.95178	0.0100	1.8157	20.0000
tert-Butylbenzene	Averaged	1.87130	1.89709	0.0100	1.3783	20.0000
Carbon disulfide	Averaged	1.25578	1.20583	0.1000	-3.9770	20.0000
Carbon tetrachloride	Averaged	0.29725	0.31994	0.1000	7.6338	20.0000
Chlorobenzene	Averaged	1.34664	1.42971	0.5000	6.1686	20.0000
Chlorodifluoromethane	Averaged	0.54100	0.40032	0.0100	-26.0027	20.0000
Chloroethane	Averaged	0.35058	0.29566	0.1000	-15.6661	20.0000
Chloroform	Averaged	0.72573	0.75378	0.2000	3.8653	20.0000
Chloromethane	Averaged	0.60220	0.42315	0.1000	-29.7324	20.0000
2-Chlorotoluene	Averaged	2.02439	2.02899	0.0100	0.2272	20.0000
4-Chlorotoluene	Averaged	2.23735	2.28827	0.0100	2.2762	20.0000
Dibromochloromethane	Averaged	0.40280	0.41001	0.1000	1.7897	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.20502	0.1000	3.4386	20.0000
Dibromomethane	Averaged	0.13938	0.14425	0.0100	3.4951	20.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.12253	0.4000	6.6251	20.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.20748	0.6000	5.5319	20.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.24988	0.5000	6.1614	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11834	0.10603	0.0100	-10.3991	20.0000
Dichlorodifluoromethane	Averaged	0.57079	0.30592	0.1000	-46.4037	20.0000
1,1-Dichloroethane	Averaged	0.80243	0.80542	0.2000	0.3726	20.0000
1,2-Dichloroethane	Averaged	0.52640	0.51935	0.1000	-1.3396	20.0000
1,1-Dichloroethene	Averaged	0.36586	0.39696	0.1000	8.5010	20.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.50123	0.1000	7.4082	20.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.43158	0.1000	3.3213	20.0000
1,2-Dichloropropane	Averaged	0.27591	0.28410	0.1000	2.9694	20.0000
1,3-Dichloropropane	Averaged	0.75325	0.80182	0.0100	6.4490	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

15539856CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/19/2021 Time: 10:09

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081921.B\P34026.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.51671	0.51514	0.0100	-0.3038	20.0000
1,1-Dichloropropene	Averaged	0.37135	0.33091	0.0100	-10.8915	20.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.40053	0.2000	6.6101	20.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.32620	0.1000	2.7182	20.0000
1,4-Diethylbenzene	Averaged	1.32333	1.30410	0.0100	-1.4537	20.0000
Ethanol	Averaged	0.00196	0.00175	0.0100	-11.0006	20.0000
Ethylbenzene	Averaged	0.78256	0.80634	0.1000	3.0379	20.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.22228	0.0100	-9.6721	20.0000
2-Hexanone	Averaged	0.31061	0.28685	0.1000	-7.6508	20.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.70519	0.1000	-0.9228	20.0000
p-Isopropyltoluene	Averaged	2.33978	2.50683	0.0100	7.1396	20.0000
Methylene Chloride	Averaged	0.43591	0.43057	0.1000	-1.2231	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.20687	0.1000	-1.7152	20.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.08442	0.1000	-7.6050	20.0000
Naphthalene	Averaged	1.17353	1.39278	0.0100	18.6830	20.0000
n-Propylbenzene	Averaged	3.44822	3.56882	0.0100	3.4975	20.0000
Styrene	Averaged	1.47069	1.60565	0.3000	9.1763	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.43435	0.0100	4.1798	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.63854	0.3000	10.1530	20.0000
Tetrachloroethene	Averaged	0.49744	0.48210	0.2000	-3.0836	20.0000
1,2,4,5-tetramethylbenzene	Averaged	1.84063	1.98786	0.0100	7.9984	20.0000
Toluene	Averaged	1.12177	1.12316	0.4000	0.1244	20.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.44455	0.0100	10.7598	20.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.58800	0.2000	12.5274	20.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.31858	0.1000	-5.8117	20.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.19279	0.1000	0.9575	20.0000
Trichloroethene	Averaged	0.25933	0.25543	0.2000	-1.5011	20.0000
Trichlorofluoromethane	Averaged	0.63758	0.56083	0.1000	-12.0388	20.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.16035	0.0100	-2.0618	20.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.35423	0.0100	5.2755	20.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.34849	0.0100	5.5870	20.0000
Vinyl chloride	Averaged	0.64551	0.50336	0.1000	-22.0219	20.0000
m&p-Xylene	Averaged	0.94090	0.96765	0.1000	2.8434	20.0000
o-Xylene	Averaged	0.89740	0.95192	0.3000	6.0756	20.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.89275	0.0100	0.4057	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

SAMPLE NO.

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

15539856CCV

Lab Name: Pace Analytical - New York Calibration Date: 08/19/2021 Time: 10:09

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 081921.B\P34026.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.31295	0.0100	-5.8019	20.0000
Toluene-d8 (S)	Averaged	2.42242	2.48838	0.0100	2.7231	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

MSV - FORM V VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11
Lab File ID: 082021.B\P34051.D BFB Injection Date 08/20/2021
Instrument ID: 70MSV8 BFB Injection Time 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.00 - 40.00% of mass 95	16.09	
75	30.00 - 60.00% of mass 95	43.81	
95	Base Peak, 100.00% relative	100.00	
96	5.00 - 9.00% of mass 95	6.34	
173	Less than 2.00% of mass 174	1.12	(1.56)[1]
174	50.00 - 100.00% of mass 95	71.90	
175	5.00 - 9.00% of mass 174	5.43	(7.56)[1]
176	95.00 - 101.00% of mass 174	68.64	(95.46)[1]
177	5.00 - 9.00% of mass 176	4.38	(6.38)[2]

1 - Value is % mass 174 2 - Value is % mass 176

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
15539858CCV	15539858CCV	082021.B\P34052.D	08/20/2021	09:34
1123027BLANK	1123027BLANK	082021.B\P34053.D	08/20/2021	10:51
1123028LCS	1123028LCS	082021.B\P34054.D	08/20/2021	11:15
PZ-6	70184112023	082021.B\P34055.D	08/20/2021	12:11
PZ-5	70184112024	082021.B\P34056.D	08/20/2021	12:35
TP2-PZ-2	70184112011	082021.B\P34057.D	08/20/2021	12:59
TP2-PZ-1	70184112012	082021.B\P34058.D	08/20/2021	13:18
TP2-PZ-3	70184112013	082021.B\P34059.D	08/20/2021	13:38
A2-PZ-2	70184112014	082021.B\P34060.D	08/20/2021	13:57
A2-PZ1	70184112015	082021.B\P34061.D	08/20/2021	14:17
MW-18	70184112016	082021.B\P34062.D	08/20/2021	14:36
MW-20	70184112017	082021.B\P34063.D	08/20/2021	14:56
MW-21	70184112018	082021.B\P34064.D	08/20/2021	15:15
PZ-11R	70184112019	082021.B\P34065.D	08/20/2021	15:35
PZ-13R	70184112020	082021.B\P34066.D	08/20/2021	15:54
TP2-PZ-4	70184112021	082021.B\P34067.D	08/20/2021	16:13
PZ-8	70184112022	082021.B\P34068.D	08/20/2021	16:33
TP1-PZ2	70184112009	082021.B\P34069.D	08/20/2021	16:52
TP1-PZ4	70184112010	082021.B\P34070.D	08/20/2021	17:12
A2-PZ1	70184112015	082021.B\P34071.D	08/20/2021	17:31
A2-PZ-2	70184112014	082021.B\P34072.D	08/20/2021	17:50
1124235DUP	1124235DUP	082021.B\P34074.D	08/20/2021	18:29
1124236MS	1124236MS	082021.B\P34075.D	08/20/2021	18:49

MSV - FORM V VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Pace Analytical - New York SDG No.: 70184112 Contract: LMC UTICA 8/11

Lab File ID: 082021.B\P34051.D BFB Injection Date: 08/20/2021

Instrument ID: 70MSV8 BFB Injection Time: 08:40

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
TP1-PZ4	70184112010	082021.B\P34076.D	08/20/2021	19:28

SAMPLE NO.

15539858CCV

MSV - FORM VII VOA-1
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/20/2021 Time: 09:34

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 082021.B\P34052.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
Acetone	Linear	50	54.32728	0.1000	8.6546	20.0000
Benzene	Averaged	1.00002	1.06423	0.5000	6.4215	20.0000
Bromobenzene	Averaged	0.60364	0.59510	0.0100	-1.4154	20.0000
Bromochloromethane	Averaged	0.20215	0.21913	0.0100	8.4030	20.0000
Bromodichloromethane	Averaged	0.31166	0.32348	0.2000	3.7933	20.0000
Bromoform	Averaged	0.22399	0.25430	0.1000	13.5325	20.0000
Bromomethane	Averaged	0.19025	0.18886	0.1000	-0.7300	20.0000
2-Butanone (MEK)	Averaged	0.29474	0.33985	0.1000	15.3063	20.0000
n-Butylbenzene	Averaged	2.66519	2.77931	0.0100	4.2816	20.0000
sec-Butylbenzene	Averaged	2.89914	2.86025	0.0100	-1.3417	20.0000
tert-Butylbenzene	Averaged	1.87130	1.83765	0.0100	-1.7983	20.0000
Carbon disulfide	Averaged	1.25578	1.20590	0.1000	-3.9719	20.0000
Carbon tetrachloride	Averaged	0.29725	0.28680	0.1000	-3.5154	20.0000
Chlorobenzene	Averaged	1.34664	1.40520	0.5000	4.3484	20.0000
Chlorodifluoromethane	Averaged	0.54100	0.38083	0.0100	-29.6064	20.0000
Chloroethane	Averaged	0.35058	0.27613	0.1000	-21.2356	20.0000
Chloroform	Averaged	0.72573	0.75961	0.2000	4.6676	20.0000
Chloromethane	Averaged	0.60220	0.39725	0.1000	-34.0337	20.0000
2-Chlorotoluene	Averaged	2.02439	1.95837	0.0100	-3.2614	20.0000
4-Chlorotoluene	Averaged	2.23735	2.22424	0.0100	-0.5857	20.0000
Dibromochloromethane	Averaged	0.40280	0.39874	0.1000	-1.0093	20.0000
1,2-Dibromoethane (EDB)	Averaged	0.19821	0.21167	0.1000	6.7930	20.0000
Dibromomethane	Averaged	0.13938	0.14821	0.0100	6.3346	20.0000
1,2-Dichlorobenzene	Averaged	1.05278	1.09654	0.4000	4.1564	20.0000
1,3-Dichlorobenzene	Averaged	1.14419	1.18349	0.6000	3.4348	20.0000
1,4-Dichlorobenzene	Averaged	1.17734	1.18955	0.5000	1.0367	20.0000
trans-1,4-Dichloro-2-butene	Averaged	0.11834	0.11185	0.0100	-5.4888	20.0000
Dichlorodifluoromethane	Averaged	0.57079	0.28386	0.1000	-50.2688	20.0000
1,1-Dichloroethane	Averaged	0.80243	0.80456	0.2000	0.2664	20.0000
1,2-Dichloroethane	Averaged	0.52640	0.51842	0.1000	-1.5155	20.0000
1,1-Dichloroethene	Averaged	0.36586	0.39290	0.1000	7.3920	20.0000
cis-1,2-Dichloroethene	Averaged	0.46666	0.50837	0.1000	8.9370	20.0000
trans-1,2-Dichloroethene	Averaged	0.41771	0.42554	0.1000	1.8756	20.0000
1,2-Dichloropropane	Averaged	0.27591	0.27982	0.1000	1.4184	20.0000
1,3-Dichloropropane	Averaged	0.75325	0.79580	0.0100	5.6501	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

15539858CCV

MSV - FORM VII VOA-2
MSV CONTINUING CALIBRATION DATA

Lab Name: Pace Analytical - New York Calibration Date: 08/20/2021 Time: 09:34

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 082021.B\P34052.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{\text{RRF}}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
2,2-Dichloropropane	Averaged	0.51671	0.50619	0.0100	-2.0349	20.0000
1,1-Dichloropropene	Averaged	0.37135	0.33014	0.0100	-11.0992	20.0000
cis-1,3-Dichloropropene	Averaged	0.37570	0.40630	0.2000	8.1460	20.0000
trans-1,3-Dichloropropene	Averaged	0.31757	0.33678	0.1000	6.0501	20.0000
1,4-Diethylbenzene	Averaged	1.32333	1.26467	0.0100	-4.4331	20.0000
Ethanol	Averaged	0.00196	0.00163	0.0100	-17.0017	20.0000
Ethylbenzene	Averaged	0.78256	0.78610	0.1000	0.4525	20.0000
Hexachloro-1,3-butadiene	Averaged	0.24609	0.23004	0.0100	-6.5201	20.0000
2-Hexanone	Averaged	0.31061	0.28626	0.1000	-7.8397	20.0000
Isopropylbenzene (Cumene)	Averaged	2.73038	2.61400	0.1000	-4.2623	20.0000
p-Isopropyltoluene	Averaged	2.33978	2.42377	0.0100	3.5896	20.0000
Methylene Chloride	Averaged	0.43591	0.43012	0.1000	-1.3276	20.0000
4-Methyl-2-pentanone (MIBK)	Averaged	0.21048	0.21045	0.1000	-0.0154	20.0000
Methyl-tert-butyl ether	Averaged	1.17368	1.11408	0.1000	-5.0784	20.0000
Naphthalene	Averaged	1.17353	1.38278	0.0100	17.8307	20.0000
n-Propylbenzene	Averaged	3.44822	3.43066	0.0100	-0.5091	20.0000
Styrene	Averaged	1.47069	1.60698	0.3000	9.2671	20.0000
1,1,1,2-Tetrachloroethane	Averaged	0.41693	0.43841	0.0100	5.1529	20.0000
1,1,2,2-Tetrachloroethane	Averaged	0.57969	0.63533	0.3000	9.5990	20.0000
Tetrachloroethene	Averaged	0.49744	0.47534	0.2000	-4.4430	20.0000
1,2,4,5-tetramethylbenzene	Averaged	1.84063	1.92099	0.0100	4.3659	20.0000
Toluene	Averaged	1.12177	1.12313	0.4000	0.1218	20.0000
1,2,3-Trichlorobenzene	Averaged	0.40136	0.44666	0.0100	11.2856	20.0000
1,2,4-Trichlorobenzene	Averaged	0.52254	0.58125	0.2000	11.2359	20.0000
1,1,1-Trichloroethane	Averaged	0.33824	0.31760	0.1000	-6.1029	20.0000
1,1,2-Trichloroethane	Averaged	0.19096	0.19995	0.1000	4.7066	20.0000
Trichloroethene	Averaged	0.25933	0.25411	0.2000	-2.0104	20.0000
Trichlorofluoromethane	Averaged	0.63758	0.54945	0.1000	-13.8226	20.0000
1,2,3-Trichloropropane	Averaged	0.16373	0.15670	0.0100	-4.2921	20.0000
1,2,4-Trimethylbenzene	Averaged	2.23626	2.26340	0.0100	1.2139	20.0000
1,3,5-Trimethylbenzene	Averaged	2.22422	2.29229	0.0100	3.0603	20.0000
Vinyl chloride	Averaged	0.64551	0.47927	0.1000	-25.7545	20.0000
m&p-Xylene	Averaged	0.94090	0.95946	0.1000	1.9729	20.0000
o-Xylene	Averaged	0.89740	0.92970	0.3000	3.5996	20.0000
4-Bromofluorobenzene (S)	Averaged	0.88914	0.89256	0.0100	0.3840	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.

09/07/2021 8:59

SAMPLE NO.

MSV - FORM VII VOA-3
MSV CONTINUING CALIBRATION DATA

15539858CCV

Lab Name: Pace Analytical - New York Calibration Date: 08/20/2021 Time: 09:34

Instrument ID: 70MSV8 GC Column: Col 1 Init. Calib. Date(s): 06/09/2021 06/09/2021

Lab File ID: 082021.B\P34052.D Init. Calib. Time(s): 16:08 18:24

SDG No.: 70184112

COMPOUND	CURVE	$\overline{RRF}$ or Amount	RRF or Amount	MIN RRF	%D	MAX %D
1,2-Dichloroethane-d4 (S)	Averaged	0.33223	0.32033	0.0100	-3.5805	20.0000
Toluene-d8 (S)	Averaged	2.42242	2.47560	0.0100	2.1956	20.0000

The values for compounds reported as total are based on a summation of the components within the laboratory information management system.