Groundwater Monitoring Report

2021 Annual Report

Nouryon Functional Chemicals, LLC

Lockport-Olcott Road

Burt, New York

NYSDEC Region #9

Prepared for

Nouryon Functional Chemicals, LLC

2153 Lockport-Olcott Road

Burt, New York 14028

April 26, 2022

Barton&Loguidice

Nouryon Functional Chemicals, LLC
Lockport-Olcott Road
Burt, New York

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SAMPLE COLLECTION INFORMATION

Sampled By: Barton & Loguidice, D.P.C.

Sampling Dates: 2nd Quarter: June 7-8, 2021
4th Quarter: November 8-9, 2021

Sampling Locations:

Overburden	Bedrock
MW-1	MW-1B(1)
MW-2	MW-3B(1)
MW-3	MW-4B
MW-4	MW-9B
MW-5	MW-10B(1)
MW-9	MW-11B
MW-10	
MW-11	

Notes: (1) Sampled in Second Quarter only
(2) Location Dry in Fourth Quarter

Field Determinations: (See Field Data Sheets in Appendix A)
pH
Temperature
Turbidity
Specific Conductance
Eh (Oxidation Reduction Potential)
Dissolved Oxygen
Ferrous Iron
Static Water Levels

SAMPLE TESTING

Laboratory: ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360
Rochester, NY 14623
NYSDOH I.D. No.10145

Parameters Tested: All monitoring locations were analyzed for Volatile Organic Compounds (EPA Method 8260), dissolved iron (EPA Method 2007), dissolved manganese (EPA Method 354.1), sulfate and nitrate as nitrogen (EPA Method 300.0), methane (Method RSK 175).

Test Report: 2nd Quarter ALS Report No.: R2105683
4th Quarter ALS Report No.: R2111850

SITE INFORMATION

Introduction

This report presents the results of environmental groundwater monitoring conducted during the 2021 monitoring events at Nouryon Functional Chemicals, LLC (Nouryon) facility located in Burt, New York. The facility is required to complete groundwater monitoring as defined in 6 New York Code of Rules and Regulations (NYCRR) Part 373 Permit No. 9-2928-00001/00003. The purpose of the monitoring is to evaluate Monitored Natural Attenuation (MNA) of groundwater impacts at the site. The sampling was performed according to the Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC) on March 31, 2006 and to the December 2015 Facility's Groundwater Monitoring Plan (prepared by Barton & Loguidice, D.P.C. (B&L)) approved by NYSDEC on December 7, 2015.

The Site's 6 NYCRR Part 373 Permit states that Nouryon (Formerly Akzo Nobel Functional Chemicals) must petition NYSDEC for approval to cease the groundwater monitoring program. Petitioning to seek termination of the groundwater monitoring program will be permissible when the following summarized "Termination Criteria" are met: (a) all Groundwater Protection Standards set forth in Table 1 of the permit have been achieved; and (b) the total concentration of all organic compounds found in Table 1 is no greater than 100 parts per billion (ppb), and no single organic compound concentration exceeds 50 ppb.

In 2009 the NYSDEC granted Nouryon approval to remove monitoring wells MW-6, MW-7, and MW-8 from the monitoring program because historic sampling and laboratory data indicated that those wells exhibited little or no contamination. Additionally, wells MW-1B, MW-3B, and MW-10B are now only sampled one time per year, during the first semi-annual monitoring event.

As detailed in the updated Groundwater Monitoring Plan (December 2015) future groundwater sampling will take place on a semi-annual basis (two times annually), typically during the Second and Fourth Quarters of each year. Groundwater samples will be analyzed for target compound list (TCL) volatile organic compounds (VOCs), select general chemistry and field parameters. A Groundwater Monitoring Program Evaluation Report is submitted annually to the NYSDEC detailing the findings for the year. The updated Groundwater Monitoring Plan also states that a reduction in the sampling frequency of a monitoring well may be considered if an annual review shows that any well or wells consistently has results of non-detected for all parameters for at least four consecutive sampling events. This report includes presentation of both the Second and Fourth Quarter 2021 data, and the annual groundwater monitoring program evaluation report.

Site History

Nouryon is located at 2153 Lockport-Olcott Road in Burt, NY. The facility formerly produced chemical peroxides. Production was discontinued in April 2003; however, the Facility remains in operation as a warehouse and distribution center. The property is 350 acres in size, of which the former production portion of the Site comprises 30 acres. Figures 1 and 2 depict the Site and property boundaries.

The Site is subject to the requirements of 6NYCRR Part 373 – Hazardous Waste Management Facilities. Nouryon has a Part 373 Permit, which required them to conduct a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) and a RCRA Facility Investigation (RFI) to determine the nature and extent of contamination associated with the Facility. These studies were conducted from 1994 to 2002. Based on the findings of the RFI, groundwater impacts were identified at the Site. A corrective measure study (CMS) was conducted to evaluate remedial alternatives. MNA and institutional controls were selected as the final corrective measures for the Site. Nouryon's Part 373 Permit Number 9-02928-00001/00003 was renewed in December 2005. The Permit authorizes Nouryon to implement corrective action measures to address the groundwater contamination at the Site.

ASSESSMENT OF MONITORING RESULTS

The monitoring well network consists of both overburden and bedrock monitoring wells. Monitoring locations MW-1 and MW-1B represent upgradient groundwater quality and MW-2 monitors the existing source area of contamination at the Site. The remaining wells represent downgradient water quality. The Groundwater Monitoring Work Plan specifies that *"if the sample results from any of the downgradient boundary wells (MW-3, MW-3B, MW-4, MW-4B, MW-9, MW-9B, MW-10, and MW-10B) indicate contamination for any TCL VOCs above the New York State groundwater standards in NYCRR 703.5, the well(s) will be resampled within 2 weeks of obtaining the results. Also, Nouryon will immediately notify the NYSDEC that there was an exceedance at the boundary well."* Boundary cluster wells MW-11 and MW-11B were installed in February 2007 as a result of VOC detections at MW-9 in 2006. The MW-11 and MW-11B locations now serve as the designated boundary well cluster downgradient of MW-9 and MW-9B. Detections of TCL VOCs above groundwater standards at the MW-9 well cluster no longer require resampling and immediate notification to the NYSDEC.

B&L field personnel performed groundwater monitoring activities on June 7 and 8, 2021, and November 8 and 9, 2021. Per the requirements specified in the Groundwater Monitoring Plan, groundwater samples were collected from the designated site monitoring wells depicted on Figure 3. Field measurements included dissolved oxygen, temperature, pH, conductivity, turbidity, oxidation-reduction potential (Eh), ferrous iron concentration, and static groundwater levels. Groundwater samples were analyzed by ALS Environmental for Target Compound List (TCL) volatile organic compounds (VOCs) (EPA Method SW-846-8260), dissolved iron (EPA Method SW-846-200.7), dissolved manganese (EPA Method SW-846 354.1), sulfate and nitrate as nitrogen (EPA SW-846 300.0), and methane (Method RSK 175).

Tables 1 through 14 of this report provide a summary of historical groundwater monitoring analytical results and a comparison to NYSDEC groundwater standards. Table 15 summarizes the exceedance of NYSDEC groundwater standards. Table 16 and 17 summarize the physical measurements for each monitoring well, and provides water level and field parameter data for each of the 2021 sampling events. Table 18 provides a summary of MNA indicator parameters. Figures 1 through 7 provide site maps, well locations, and groundwater contours for the overburden and bedrock units. Copies of field sampling forms, calibration sheets, and chain of custody forms are provided in Appendix A. Laboratory analytical results provided by ALS Environmental are provided in Appendix B.

During the 2021 Fourth Quarter monitoring event, upgradient monitoring location MW-1 exceeded the groundwater standard for trichloroethene(TCE). TCE has been detected in past sampling events in MW-1, but at estimated concentrations below the method reporting limit and below the groundwater standard of 5 micrograms per liter (ug/l).

Historically, monitoring well MW-5 has exceeded the 50 µg/L groundwater quality guidance value for acetone. In 2021, the groundwater guidance value for acetone was not exceeded within MW-5. Acetone concentrations within MW-5 will continue to be closely evaluated to assess changes or trends.

Monitoring well MW-9 did not contain VOCs at concentrations exceeding Part 703 groundwater quality standards during the 2021 Second Quarter and Fourth Quarter monitoring events. This former boundary well has historically exhibited detections of several VOCs including 1,1,1-trichloroethane (111-TCA), 1,1-dichloroethane (11-DCA), 1,1,2-trichloroethane, tetrachloroethene, and trichloroethene.

The VOC concentrations within MW-2, MW-5 and MW-9 have continued to show improvement over time. No other exceedances of groundwater standards were observed at these monitoring well locations, and the results are consistent with the recent data set.

The following outlines the monitoring locations that had VOC detections with concentrations above the groundwater standard (values in boldface) or estimated concentrations that were below established action levels for the Second and/or Fourth Quarters of 2021.

- MW-1: **Trichloroethene**, 1,2- Dichloroethene and Chloromethane
- MW-1B: 2-Butanone
- MW-2: Chlorobenzene
- MW-3: No detections
- MW-3B: No detections
- MW-4: No detections
- MW-4B: No detections
- MW-5: Acetone
- MW-9: 1,1,1- Trichloroethane, 1,1- Dichloroethane, Tetrachloroethene, and Trichloroethene
- MW-9B: No detections
- MM-10: 1,1,1- Trichloroethane
- MW-10B: 1,1-Dichloroethane
- MW-11: No detections
- MW-11B: No detections

None of the boundary wells exhibited groundwater standard exceedances during the 2021 monitoring events. VOC concentrations at downgradient boundary wells will continue to be tracked through scheduled monitoring programs. The detection of MW-1 will be closely evaluated during the upcoming 2022 monitoring events.

Static water level measurements were used to calculate overburden and bedrock unit groundwater elevations. The direction of overburden groundwater flow varies seasonally, but was generally to the northwest across the former source area, with the gradient becoming steeper and shifting to the west at the western property boundary. Second and Fourth Quarter Overburden Unit contours are shown in Figure 4 and Figure 6 respectively. The Second Quarter Bedrock Unit groundwater flow was generally to the west as shown in Figure 5. Fourth Quarter Bedrock Unit contour maps were not produced due to the limited static water level measurements collected from Bedrock Unit monitoring wells during these events. The overburden and bedrock relative water level ranges are consistent with historical measurements.

MONITORED NATURAL ATTENUATION EVALUATION

Redox Conditions

Modestly oxidizing (aerobic) conditions were present in several monitoring wells during the 2021 monitoring year (Table 18). Average ORP values ranged from -27 mV at MW-1B to 222 mV at MW-4B, with an overall average of 138.2 mV. DO average concentrations ranged from 1.25 mg/L at MW-2 to 8.08 mg/L at MW-2, with an average DO concentration of 3.38 mg/L.

Average dissolved iron concentrations ranged from non-detect (multiple locations) to 1,870 µg/L (MW-1B). Well MW-1 and MW-2 also demonstrated elevated dissolved iron. Average dissolved manganese ranged from non-detect (multiple locations) to 844 µg/L in MW-1B. Well MW-1, MW-2, MW-10 and MW-11 also demonstrated elevated dissolved manganese. These data demonstrate that reductive dechlorination conditions are favorable in the vicinity of wells MW-1B and MW-2 and to a lesser amount near overburden wells MW-1, MW-10 and MW-11.

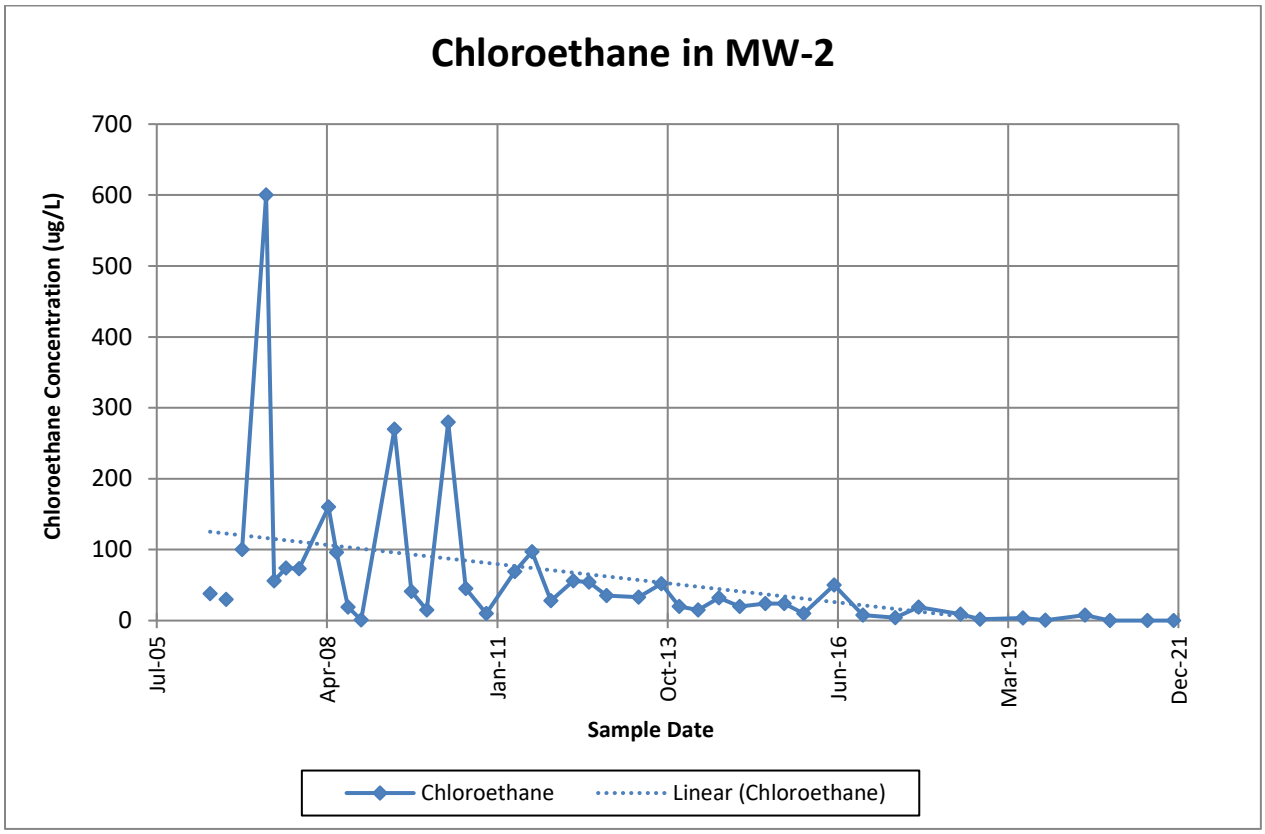
Nitrate was detected at three locations (MW-2, MW-9, and MW-10) during the 2021 sampling events. Average nitrate concentrations ranged from 1.7 to 5.1 mg/L in these wells. These observations suggest that the denitrification process is incomplete at these locations.

Methane concentrations were observed to be high at monitoring well MW-2, averaging 277.5 µg/L during the 2021 monitoring year. These methane concentrations confirm that strongly reducing conditions favoring reductive dechlorination are present in the vicinity of this well.

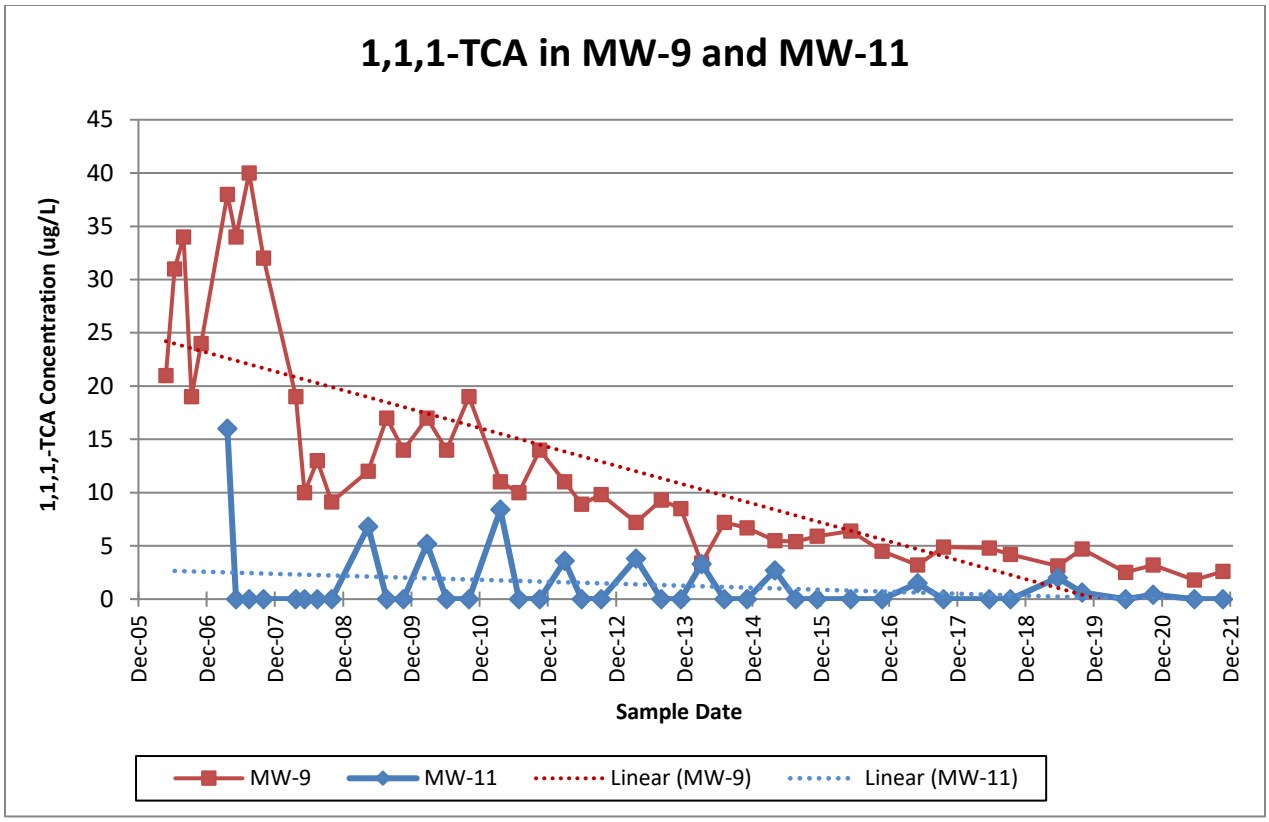
In general, the MNA indicator data are consistent with the results from prior monitoring years. Strongly reducing conditions favoring reductive dechlorination continue to be present in the vicinity of well MW-2. A zone where oxygen levels have been reduced, but conditions remain moderately aerobic (as evidenced by positive ORP values; significant nitrate detections; and infrequent methane, dissolved iron and dissolved manganese detections) encompasses wells MW-5, MW-9 & MW-10.

Degradation Products

The contaminant source area was formerly impacted with 111-TCA. The degradation of 111-TCA via reductive dechlorination yields two principal by-products: 11-DCA and CA. During the 2021 monitoring year, neither chloroethane (CA) and 1,1-dichloroethane (11-DCA) were detected in MW-2 (refer to Table 3). 11-DCA and CA were reported to be below groundwater action limits for all monitoring wells in the Second and Fourth Quarter sampling. Low-level concentrations of 11-DCA were detected at monitoring wells MW-9, and MW-10B. The absence of 111-TCA (or its detection at very low concentrations) together with the presence of only low concentrations of 11-DCA suggest that the majority of the 111-TCA in the source area has been degraded to CA. In addition, CA has been declining in the source area in recent years, consistent with the principles of natural attenuation. In lieu of radial diagrams, natural attenuation trends and effectiveness are represented in contaminant concentration vs. time graphs as shown for CA in the graph below:



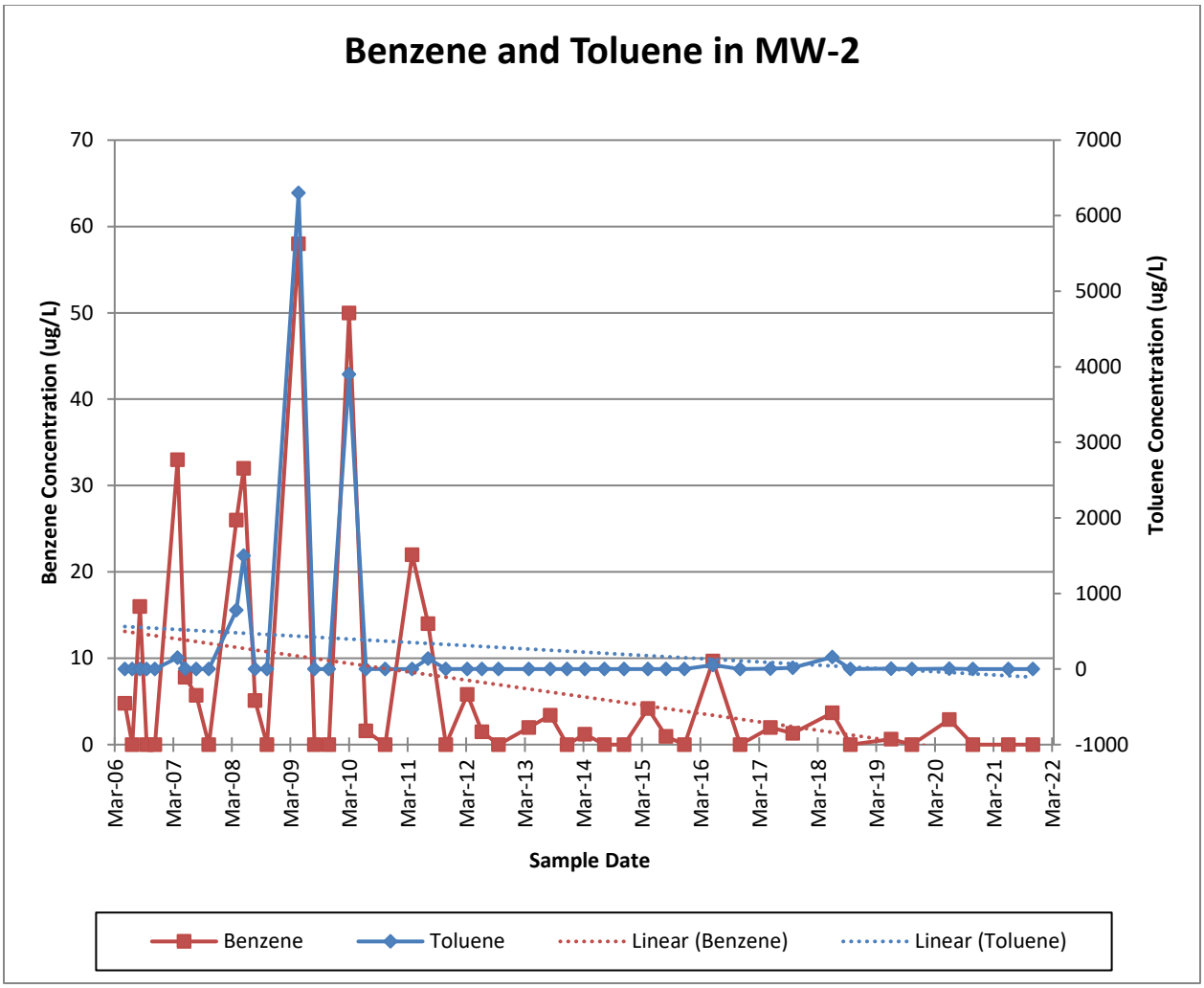
Similarly, low-level detections of 111-TCA in boundary wells MW-9 and MW-11 in recent years also demonstrate trends of declining concentrations (see graph below). Degradation is occurring upgradient from the boundary locations based on the observed redox conditions. However, the starting concentrations of the parent 111-TCA are sufficiently low to yield by-product concentrations that are low and often below the method detection limits. MW-9 had an estimated detection of 111-TCA (1.8 and 2.6 ug/L) in the Second and Fourth Quarters of 2021.



The anaerobic degradation of CA is a relatively slow process; accordingly, by-product CA would be expected to migrate from the source area with the groundwater flow, degrading anaerobically over time. As the flow of groundwater approaches the more aerobic areas to the west, however, it is likely that the CA will be degraded more rapidly via aerobic mechanisms. Since aerobic degradation of CA is a faster process, it is likely that CA will not reach the boundary wells, and the analytical data supports this conclusion.

BTEX Constituents

Benzene, toluene, ethylbenzene, and xylenes (BTEX) have historically been detected in the source area, including in well MW-2. Higher detections of benzene and toluene concentrations in MW-2 typically occur in the spring months (March, April, May, and June; see figure below) and decline through the remainder of the year. This suggests that the BTEX source may be associated with a water table smear zone that becomes seasonally saturated during periods of relatively higher groundwater levels.

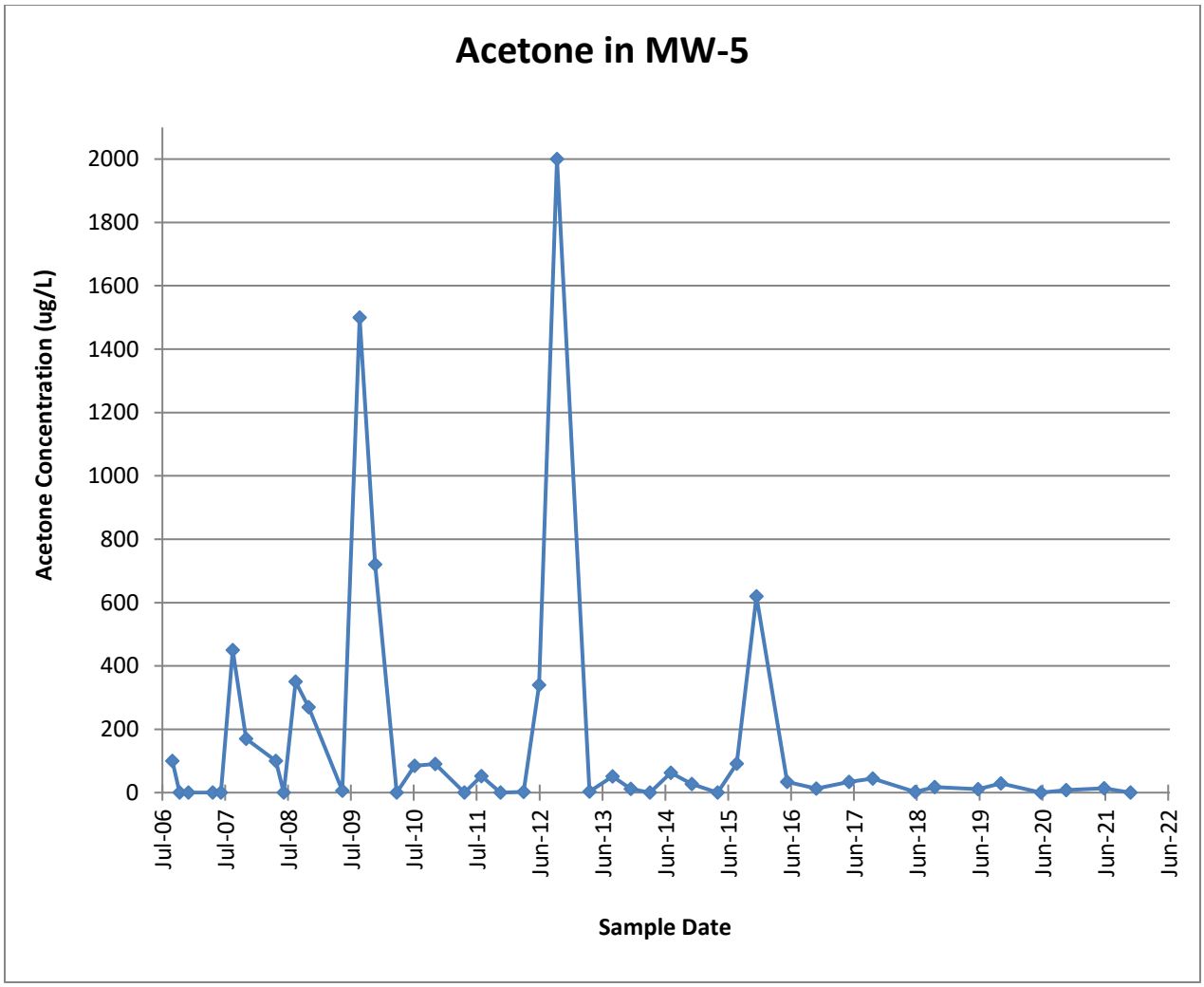


During 2021 none of the monitoring wells exhibited BTEX, and BTEX has not been detected since the second Quarter of 2020. Overall, the results for the 2011 to 2021 monitoring years demonstrate decreasing trends of BTEX concentrations in the source area.

Anaerobic degradation of the BTEX constituents continues and BTEX in the source area are no longer at concentrations that can negatively impact downgradient wells. Accordingly, off-site migration of BTEX is not likely to occur.

Acetone

Acetone is frequently detected within Site monitoring wells at low concentrations that may be associated with laboratory artifacts. More significant detections of acetone have been noted in monitoring well MW-5, with historical concentrations as high as 2,000 µg/L detected in October 2012. During the 2021 acetone was detected within MW-5 (14.0 µg) below the groundwater quality standard of 50 µg/L. MW-5 has not exceeded the groundwater standard of 50 ug/l since December of 2015. Acetone is readily biodegradable under aerobic conditions and is likely to be fully degraded within a relatively short distance downgradient of monitoring well MW-5.



CONCLUSIONS

The groundwater data obtained in 2021 for the Nouryon facility is generally consistent with recent water quality data. This data demonstrates the effectiveness of MNA in decreasing the concentrations of organic compounds within the groundwater at the facility. Specific conclusions on groundwater quality are noted below:

- 111-TCA, previously present in the source area, appears to have been fully degraded to 11-DCA or chloroethane, and the parent compound was not detected in the source area during the 2021 monitoring year. The by-product chloroethane continues to degrade under anaerobic conditions in the source area or degrades aerobically as it migrates towards the Site boundary. The absence of chloroethane in the boundary wells confirms that the source concentrations are no longer high enough to negatively impact boundary wells water quality.

- 111-TCA was detected within MW-9 at concentrations below the groundwater standard. Degradation is occurring at the boundary well locations based on the observed mildly redox conditions and contaminant concentrations below groundwater quality standards. 111-TCA has not been detected above the groundwater standard within MW-9 since the Second Quarter of 2016.
- Anaerobic degradation of the BTEX constituents in the source area is also occurring. As the flow of groundwater approaches the more aerobic areas to the west, however, BTEX constituents not degraded in the source area appear to be fully degraded aerobically. As in prior years, there were no detections of BTEX constituents in the boundary wells during the 2021 monitoring year.
- Trichloroethene was detected at a concentration of 8 ug/l in MW-1 during the 2021 Fourth Quarter sampling event. This compound has not exceeded the groundwater standard of 5 ug/l in the past 10 years of groundwater monitoring. Trichloroethene concentrations in MW-1 will be evaluated during the 2022 sampling events to determine if increasing trends are present in this upgradient location.

Termination criteria where total concentrations of all organic compounds can be no greater than 100 ppb was met during the Second and Fourth Quarters of 2021. Termination criteria relating to no single organic compound concentrations exceeding 50 ppb was also met during 2021. Termination criteria relating to all organic compound concentrations meeting groundwater standards was not met in 2021 due to trichloroethene concentrations in MW-1. The groundwater quality will continue to be monitored during upcoming 2022 sampling events. An annual report will also be prepared at the end of 2022 to evaluate the data obtained for the calendar year and assess the continued effectiveness of monitored natural attenuation.

Tables

TABLE 1
MW-1 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-1 R1102151-001 4/20/2011	MW-1 R1104222-01 7/29/2011	MW-1 R1104222-01 11/17/2011	MW-1 R1201988-002 3/29/2012	MW-1 R1204156-001 6/28/2012	MW-1 R1206864-001 10/10/2012	MW-1 R1302598-001 4/16/2013	MW-1 R1306287-001 8/28/2013	MW-1 R1309370-001 12/11/2013	MW-1 R1403108-001 4/29/2014	MW-1 R1406796-001 8/29/2014	MW-1 R1408763-001 10/31/2014	MW-1 R1503148-001 4/29/2015	MW-1 R1506869-001 8/19/2015	MW-1 R1510793-001 12/11/2015	MW-1 R1605971-001 6/7/2016	MW-1 R1612457-001, -012 11/23/2016	MW-1 R1704986-015 06/01/17	MW-1 R1709859-001 10/17/2017	MW-1 R1805745-001 6/20/2018	MW-1 R1809895-001 10/11/2018	MW-1 R1905853-001 6/21/2019	MW-1 R1910634-001 10/30/2019	MW-1 R2005293 6/19/2020	MW-1 R2010829 11/13/2020	MW-1 R2105683 6/8/2021	MW-1 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.32J	0.80J	0.20U	0.35J	0.38J	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.51 J	1.0U	1.0U	1.0U	1.0U	1.0U	0.31 J	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	1.6J	1.5J	0.40U	0.92J	1.4J	0.63U	1.4 J	0.63U	0.63U	0.77 J	0.77 J	0.63U	0.82 J	1.0 J	2.0U	2.0U	2.0U	0.73 J	2.0U	0.62 J	2.0U	0.47	2.0U	0.53J	2.0U	1.5J
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	0.98U	0.98U	0.98U	0.98U	1.3U	1.9J	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	2.5 BJ	1.5 J	2.9 J	5.4	6.3	2.7BJ	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	0.63 BJ	1.0U	0.27J	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.24 J	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	0.22 J	1.0U	1.0U	1.0U	0.31J	1.0U	1.0U	2.2
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.45BJ	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.42J	0.46J	0.23U	0.29J	0.36J	0.22U	0.37 J	0.34 J	0.22U	0.30 J	0.32 J	0.22U	0.29 J	0.32 J	1.0U	1.0U	1.0U	0.31 J	1.0U	0.29 J	1.0U	0.22J	1.0U	0.24J	1.0U	8
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	3.3	28	7.8	2.0U	21	5.5	1.8	11	1.3	1.0U	17	12	11	11	6.3	81	3.9	1.0U	9.5	150 D	17	1.3	3.4	88	6.1	3	1.8
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	580	100U	100U	670	100U	100U	380	100U	100U	100	100U	190	100U	100U	210	100U	100U	100U	100U	100U	100U	550	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	10U	74	44	10U	128	11	18	80	36	10U	41	48	10U	16	70	234	130	47	77	169	33	40	70	84	10U	490	46
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.010U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	39.4	34.6	34.7	44.9	37.6	37.1	34.2	38.4	33.9	35.4	36.9	29.9	42.6	41.9	37.2	46.6	34.2	76.7	42.4	44.0	33.6	41.0	35.2	40.9	32.5	82.2	45.3
Field Measurements																														
--	Water Elevation	Feet	-	322.10	316.97	315.42	320.88	317.57	314.62	322.49	317.10	318.73	321.69	317.78	317.06	320.86	316.84	316.99	318.50	314.32	321.06	316.99	318.43	315.15	319.82	317.19	318.59	314.05	318.28	317.91
--	pH	Std. Units	-	7.61	7.23	7.61	7.64	7.40	7.41	7.39	7.30	7.80	7.70	7.30	7.40	7.50	7.30	7.60	7.40	7.40	7.40	7.50	7.73	10.04	7.14	7.58	8.04	7.22	7.34	6.95
--	Temperature	C	-	6.6	15.2	10.0	6.7	13.5	11.7	8.9	15.4	6.7	6.9	13.9	10.6	9.6	14.4	10.9	11.5	9.1	11.3	12.4	12.2	15.3	14.2	13.1	14.9	12.3	11.3	13.2
--	Specific Conductance	(umhos/cm)	-	650	500	480	640	580	550	670	550	550	570	530	520	710	5700	550	620	620	690	590	660.7	1023.0	560.0	418.3	1000.0	565.0	765.8	628.9
--	Eh Redox Potential	mV	-	62	87	80	185	-40	199	142	-43	186	211	-29	170	112	20	178	23	-10	222	203	159	68	169.2	85.6	133	117	68	218
--	Turbidity	NTU	-	3.3	3.3	11.6	2.4	5.4	8.7	1.7	8.8	9.4	12.0	4.7	15.8	17.2	6.8	8.8	12.6	2.0	1.2	5.7	13.4	3.6	5.5	28.3	10.4	10.6	8.2	30.6
--	Dissolved Oxygen	mg/L	-	7.02	2.12	2.48	8.82	2.40	1.47	8.02	2.80	3.13	9.25	1.82	1.46	-	2.29	2.40	2.22	3.17	5.28	7.56	2.20	5.74	6.08	2.98	1.98	3.13	1.87	1.59
--	Ferrus Iron	mg/L	-	0.00	0.32	0.02	0.01	0.28	0.02	0.00	0.70	0.15	0.32	0.28	0.04	0.70	0.11	0.06	0.02	0.00	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.78	0.32	0.00

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 2
MW-1B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-1B R1102151-002 4/20/2011	MW-1B R1201988-003 3/29/2012	MW-1B R1302598-002 4/16/2013	MW-1B R1403108-002 4/29/2014	MW-1B R1503148-002 4/29/2015	MW-1B R1605971-003 6/7/2016	MW-1B R1704986-003 6/1/2017	MW-1B R1805745-014 6/20/2018	MW-1B R1905853-001 6/24/2019	MW-1B R1905853-001 6/19/2020	MW-1B R2105683 6/8/2021
Volatile Organic Compounds														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.30U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	0.9J	5.0U	1.2J
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.67U	0.67U	0.67U	0.77 J	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	1.5J	1.9J	1.3U	1.3U	1.7 J	1.8 BJ	5.0U	17	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.22U	0.22U	0.38 J	0.55 J	1.0U	0.34 J	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.32U	0.32U	0.60U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas														
74-82-8	Methane	µg/L	-	2.0U	6	3.8	4.9	2.6	3.5	5.2	2.1	3.4	1.1U	3
Metals (Dissolved)														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	1390	100U	500	100U	1870
7439-96-5	Manganese (Dissolved)	µg/L	-	282	517	214	132	60	48	344	239	253	353	844
Wet Chemistry														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	30U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	10U	5.0U	1.0U	1.0U	1.0U	1.0U	30U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	1360	1290	1170	1180	1050	1030	1250	1200	1200	1320	1390
Field Measurements														
--	Water Elevation	Feet	-	321.08	321.20	321.53	321.79	321.46	319.43	321.01	319.34	320.29	319.41	318.80
--	pH	td. Unit	-	8.06	8.14	8.20	8.80	9.30	9.10	7.60	8.31	7.40	8.05	7.64
--	Temperature	C	-	9.9	9.1	11.2	9.2	10.2	11.3	10.6	10.3	12.6	12.5	12.0
--	Specific Conductance	mhos/c	-	3600	3400	3100	3400	3200	3000	3300	3316	2730	1000	3653
--	Eh Redox Potential	mV	-	46	186	140	240	-116	-124	-65	125	40.8	-38.9	-27
--	Turbidity	NTU	-	9.3	12.2	11.0	22.5	13.5	12.4	8.8	7.2	25.3	11.3	5.6
--	Dissolved Oxygen	mg/L	-	4.36	4.72	2.75	3.30	-	1.01	1.21	2.95	1.00	1.00	1.44
--	Ferrus Iron	mg/L	-	0.02	0.07	0.04	0.44	0.70	0.00	0.95	0.00	0.98	0.01	1.90

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 3
MW-2 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-2 R1102151-003 4/20/2011	MW-2 R1104222-02 7/29/2011	MW-2 R1104222-02 11/17/2011	MW-2 R1201988-004 3/29/2012	MW-2 R1204156-002 6/28/2012	MW-2 R1206864-002 10/10/2012	MW-2 R1302598-003 4/16/2013	MW-2 R1306287-002 8/28/2013	MW-2 R1309370-002 12/11/2013	MW-2 R1403108-003 4/29/2014	MW-2 R1406796-002 8/29/2014	MW-2 R1408763-002 10/31/2014	MW-2 R1503148-003 4/29/2015	MW-2 R1506869-002 8/19/2015	MW-2 R1510793-002 12/11/2015	MW-2 R1605971-015 6/7/2016	MW-2 R1612457-002, -013 11/23/2016	MW-2 R1704986-004 06/01/17	MW-2 R1709859-003 10/17/2017	MW-2 R1805745-003 6/20/2018	MW-2 R1809895-003 10/11/2018	MW-2 R1905853-001 6/24/2019	MW-2 R1910634-003 10/30/2019	MW-2 R2005293 6/19/2020	MW-2 R2010829 11/13/2020	MW-2 R2105683 6/8/2021	MW-2 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.41J	0.25J	0.20U	1.8	0.32J	0.20U	1.2	0.20U	0.20U	0.97 J	0.20U	0.20U	6.4	1.0U	2.6	1.0 U	3.9	1.0U	1.5	1.0U	0.54J	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.86J	0.38J	0.98J	0.37J	0.36U	0.46J	0.36U	0.36U	0.46 J	0.36U	0.36U	0.65 J	0.36U	0.41 J	0.58 J	1.0U	1.0U	1.0U	0.25 J	1.0U	0.29J	1.0U	0.28J	0.22J	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.67 J	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.7BJ	0.98U	1.9J	1.9J	1.8J	1.3U	1.3U	1.3U	1.4 J	1.3U	1.6 J	1.7 J	1.4 J	1.3U	1.5 J	5.0U	2.0 BJ	5.0 U	5.0 U	5.0 U	9.2	12	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	22	14	0.21U	5.8	1.5	0.20U	2.0	3.4	0.20U	1.2	0.20U	0.20U	4.2	0.96 J	0.20U	9.7	1.0U	2.0	1.3	3.7	1.0U	0.65J	1.0U	2.9	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.35J	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.38 J	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	0.49 BJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	2.8J	1.3	2.5	2.3	1.7	3.0	2.4	0.86 J	2.0	2.0	1.5	2.1	2.1	1.4	3.7	1.9	1.5	1.5	1.7	0.72 J	1.4	0.24J	1.8	2.2	1.0U	0.56J
75-00-3	Chloroethane	µg/L	5	69	97	28	56	54	35	33.0	52.0	20.0	15.0	32.0	20.0	24	24	10	50	7.6	3.9	19	9.0	1.8	3.7	0.46J	7.8	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.83J	0.40J	0.24J	0.29J	0.21U	0.21U	0.21U	0.26 J	0.36 J	0.21U	0.52 J	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.31J	0.22U	1.1	0.22J	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	3.3J	0.20U	0.20U	0.20U	0.20U	0.20U	0.27J	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	3.3	1.0U	1.0U	1.0U	1.2	1.2	1.0U	1.0U	1.5	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	140	0.20U	0.25J	0.37J	0.20U	0.20U	0.30J	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	55	1.0U	1.0U	1.0U	160	1.0U	7.0	1.0U	5.3	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	22	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.26 J	0.22U	1.2	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.23J	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.39 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	5.7	0.20U	0.41J	0.67J	0.33U	0.33U	1.3J	0.33U	0.33U	0.33U	0.33U	0.40 J	0.33U	0.33U	6.2	2.0U	2.0U	2.0U	2.1	2.0U	2.0U	2.0U	1.7J	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	1.2J	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	2	1.0U	1.0U	1.0U	0.80 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	10,000D	12000	7300	9100	12000	7100	9300	4400	1800	2700	2600	2200	6900 D	5600	2900 D	5300	2800	3700	1400	1300	1600	2500D	250	3000	2900	15	540
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	5140	2690	2110	100U	2770	2360	4090	3400	860	4200	1960	100U	3880	3180	1180	4650	520	5120	510	2300	830	5990	100U	2150	300	150	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	2170	1810	1400	10U	2030	1620	2430	2150	1750	2380	1940	2050	2330	2020	1850	2080	2240	2370	1320	1790	1150	2520	869	1560	1870	39	530
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	3.2	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.010U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	2.0U	13.3	55.8	19.5	18.9	41.3	23.6	30.4	50.8	30.3	25.8	27.3	21.7	16.6	25.7	26.5	193	12.7	81.1	38.9	71.7	18.4	82	39.9	147	87.5	76.1
Field Measurements																														
--	Water Elevation	Feet	-	321.83	317.71	316.99	320.82	318.45	316.51	321.90	318.16	319.29	321.48	318.57	317.31	320.94	317.66	317.27	319.13	315.90	321.14	318.01	319.22	316.79	320.18	318.04	319.19	315.69	319.11	318.75
--	pH	Std. Units	-	7.36	7.24	7.36	7.52	7.40	7.27	7.33	7.30	7.40	7.20	7.20	7.30	7.40	7.20	7.40	7.40	7.10	7.30	7.20	7.52	8.79	7.28	7.15	7.75	7.06	7.56	7.03
--	Temperature	C	-	8.9	18.4	14.1	8.9	16.6	15.3	10.9	19.5	9.6	7.8	18.2	14.5	11.4	19.4	13.4	14.1	12.7	13.0	17.2	14.4	19.4	15.7	15.7	16.2	13.5	16.1	15.9
--	Specific Conductance	mhos/c	-	800	720	700	830	800	780	820	750	770	750	710	690	730	7200	640	760	950	700	750	617.8	828.6	620.0	353.6	671.2	635.0	606.8	719.0
--	Eh Redox Potential	mV	-	-111	-119	-94	-89	-117	-26	-96	-94	45	-78	-99	-84	-95	-105	-25	-105	-37	-107	126	-30	-50	-60.2	110.8	-61	51	111	195
--	Turbidity	NTU	-	152.0	8.2	16.3	66.2	14.1	21.1	28.3	24.2	85.0	65.1	11.8	62.7	14.2	9.8	47.7	57.2	23.4	18.1	11.4	6.2	1.6	19.0	12.9	11.3	16.0	1.0	5.5
--	Dissolved Oxygen	mg/L	-	1.10	0.99	3.62	1.45	1.46	1.50	1.64	2.05	2.11	6.18	0.74	7.25	-	1.42	2.10	1.37	2.04	1.45	2.46	1.72	1.12	1.26	1.70	1.02	3.06	8.08	1.25
--	Ferrus Iron	mg/L	-	>3.30	2.33	1.62	3.10	2.82	0.27	3.78	3.19	1.64	3.30	3.06	2.86	2.27	3.11	1.68	>3.30	0.49	2.93	0.17	0.60	1.06	3.30	-	2.19	0.39	0.13	0.20

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 4
MW-3 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-3 R1102151-004 4/20/2011	MW-3 R1104222-03 7/29/2011	MW-3 R1104222-03 11/17/2011	MW-3 R1201988-005 3/29/2012	MW-3 R1204156-003 6/28/2012	MW-3 R1206864-003 10/10/2012	MW-3 R1302598-004 4/16/2013	MW-3 R1306287-003 8/28/2013	MW-3 R1309370-003 12/11/2013	MW-3 R1403108-004 4/29/2014	MW-3 R1406796-003 8/29/2014	MW-3 R1408763-003 10/31/2014	MW-3 R1503148-004 4/29/2015	MW-3 R1506869-003 8/19/2015	MW-3 R1510793-003 12/11/2015	MW-3 R1605971-005 6/7/2016	MW-3 R1612457-004, -015 11/23/2016	MW-3 R1704986-005 06/01/17	MW-3 R1709859-004 10/17/2017	MW-3 R1805745-004 6/20/2018	MW-3 R1809895-004 10/11/2018	MW-3 R1905853-001 6/21/2019	MW-3 R1910634-004 10/30/2019	MW-3 R2005293 6/19/2020	MW-3 R2010829 11/13/2020	MW-3 R2105683 6/8/2021	MW-3 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.58J	13	1.2J	0.98U	1.3U	2.5J	2.4J	1.3U	1.3U	1.4 J	1.3U	1.3U	1.5 J	1.3U	5.0U	5.0U	6.9 B	1.6 J	5.0U	5.0U	6.6	5.0U	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	0.29 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	0.41 BJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	0.24 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	2.0U	2.0U	2.0U	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.1	1.0U	1.0U	1.0U	1.3	1.0U	2.9	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	120	140	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	12	10U	10U	10U	10U	10U	133	59	10U	30	71	10U	25	13	10U	11	10	10U	95	25.1	10U	75	18	51	10U	11	10U
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.010U	10.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	164	170	175	120	111	121	69.1	103	142	125	84.8	128	128	115	163	128	135	66.9	96.9	114	104	96.8	102	109	96.3	98.3	65.4
Field Measurements																														
--	Water Elevation	Feet	-	319.44	315.78	315.45	319.25	316.27	313.23	319.92	316.35	318.80	320.22	317.19	315.70	319.06	315.67	316.66	317.30	311.78	319.75	317.33	317.29	314.08	318.71	319.24	317.50	312.40	317.25	319.37
--	pH	Std. Units	-	7.56	7.31	7.44	7.57	7.40	7.38	7.54	7.30	7.50	7.40	7.20	7.40	7.40	7.30	7.50	7.40	7.40	7.50	7.50	7.50	9.27	7.24	7.08	7.33	6.40	7.57	7.28
--	Temperature	C	-	7.7	15.9	11.8	9.0	17.1	14.2	10.7	16.7	6.2	8.5	16.4	11.7	10.7	17.5	11.7	13.4	10.4	15.1	14.7	14.4	16.6	15.8	12.9	16.8	12.6	13.7	12.6
--	Specific Conductance	mhos/c	-	950	910	980	890	1010	980	730	920	1050	1010	880	1020	1000	1202	1000	1000	1120	840	960	1136.0	1173.0	489.0	1030.0	1184.0	908.0	1040.0	842.3
--	Eh Redox Potential	mV	-	98	105	126.6	167	122	143	124	207	170	174	20	-	-16	31	117	37	-74	26	194	173	167	102.1	135.6	78.5	131.5	97	150
--	Turbidity	NTU	-	8.4	7.8	38.2	14.1	8.4	693.0	8.5	3.8	20.0	12.9	5.1	2.5	8.7	4.3	4.1	5.4	3.6	7.3	6.2	1.9	1.2	12.2	6.7	1.8	24.4	2.1	4.2
--	Dissolved Oxygen	mg/L	-	6.99	5.24	5.38	7.02	5.18	6.40	7.46	6.48	7.80	8.78	4.57	4.87	-	6.21	5.85	6.10	7.88	6.83	6.94	5.32	6.54	7.15	0.99	4.76	8.91	7.41	5.69
--	Ferrus Iron	mg/L	-	0.04	0.24	0.11	0.04	0.15	0.00	0.05	0.01	0.28	0.30	0.00	0.00	0.04	0.16	0.05	0.02	0.04	0.03	0.02	0.00	0.10	0.02	0.00	0.00	0.09	0.08	0.11

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 5
MW-3B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-3B R1102151-005 4/20/2011	MW-3B R1201988-006 3/29/2012	MW-3B R1302598-005 4/16/2013	MW-3B R1403108-005 4/29/2014	MW-3B R1503148-005 4/29/2015	MW-3B R1605971-006 6/7/2016	MW-3B R1704986-006 6/1/2017	MW-3B R1805745-015 6/20/2018	MW-3B R1905853-001 6/21/2019	MW-3B R2005293 6/19/2020	MW-3B R2105683 6/8/2021
Volatile Organic Compounds														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	0.98U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	17	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.32U	0.32U	0.60U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas														
74-82-8	Methane	µg/L	-	35	33	37	16	15	38	23	29	31	8.2	21
Metals (Dissolved)														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	100U	159	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	62	57	61	48	45	58	72	60.8	57	63	73
Wet Chemistry														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	52.7	46.9	41.9	54.9	50.4	38.0	43.4	38.5	44.1	41.9	45.2
Field Measurements														
--	Water Elevation	Feet	-	311.04	311.37	311.20	310.87	310.65	309.88	311.17	307.78	310.52	309.95	309.99
--	pH	Std. Unit	-	7.99	7.79	7.95	7.80	8.00	8.00	8.10	8.37	7.94	8.06	8.10
--	Temperature	C	-	9.0	10.0	11.2	8.8	10.7	11.4	10.7	10.9	12.4	12.4	12.3
--	Specific Conductance	mhos/c	-	580	550	580	600	580	560	630	558.3	256	672.8	586.8
--	Eh Redox Potential	mV	-	70	197	118	87	19	36	100	161	147.5	71	54
--	Turbidity	NTU	-	21.4	8.0	9.0	11.2	12.8	15.2	12.5	13.5	14.9	8.8	9.6
--	Dissolved Oxygen	mg/L	-	1.65	2.53	2.24	5.58	-	2.44	2.30	2.82	2.09	1.37	1.95
--	Ferrus Iron	mg/L	-	0.07	0.05	0.07	0.20	0.00	0.00	0.02	0.00	0.00	0.00	0.16

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 6
MW-4 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-4 R1102151-006 4/20/2011	MW-4 R1104222-004 7/29/2011	MW-4 R1104222-004 11/17/2011	MW-4 R1201988-007 3/29/2012	MW-4 R1204156-004 6/28/2012	MW-4 R1206864-004 10/10/2012	MW-4 R1302598-006 4/16/2013	MW-4 R1306287-004 8/28/2013	MW-4 R1309370-004 12/11/2013	MW-4 R1403108-006 4/29/2014	MW-4 R1406796-004 8/29/2014	MW-4 R1408763-004 10/31/2014	MW-4 R1503148-006 4/29/2015	MW-4 R1506869-004 8/19/2015	MW-4 R1510793-004 12/11/2015	MW-4 R1605971-007 6/7/2016	MW-4 R1612457-016 11/23/2016	MW-4 R1704986-007 06/01/17	MW-4 R1709859-005 10/17/2017	MW-4 R1805745-005 6/20/2018	MW-4 R1809895-005 10/11/2018	MW-4 R1905853-001 6/21/2019	MW-4 R1910634-005 10/30/2019	MW-4 R2005293 6/19/2020	MW-4 R2105683 6/8/2021	MW-4 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	0.95J	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	1.5J	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.5BJ	2.1J	0.98U	1.2J	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3 J	5.0U	5.2	5.0U	5.0U	3.2 J	2.3 J	17	3.6BJ	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	0.33 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.26 J	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	0.29 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.55BJ	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	2.0U	2.0U	3.3	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	-	1.0U	1.1 U	1.1 U	1.5	1.1U	3.9	1.1U	1.1U	1.1U
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	240	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	-	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	10U	51	50	14	33	50	10U	29	13	10U	10U	43	24	10	30	10U	10	10U	10U	10U	28	266	20	10U	10U	10U
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.010U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	22.5	30.4	42.8	22.7	24.6	61.3	19	33.3	20.1	13.8	21.4	38.3	16.5	27.3	34.5	17.8	-	24.0	42.8	18.9	50.4	21.3	24.7	16.4	28.2	27.4
Field Measurements																														
--	Water Elevation	Feet	-	316.33	313.54	313.47	315.47	313.64	311.66	316.67	313.51	315.22	315.84	314.03	313.45	315.61	313.00	313.39	314.02	307.84	315.42	313.66	313.98	312.01	315.07	314.70	314.23	313.88	314.87
--	pH	Std. Unit	-	7.63	7.22	7.38	7.63	7.30	7.32	7.38	7.30	7.50	7.50	7.30	7.60	7.50	7.30	7.60	7.40	-	7.40	7.50	7.48	9.03	7.27	7.14	7.82	7.47	7.24
--	Temperature	C	-	7.0	16.4	11.2	8.1	14.8	13.5	8.6	14.8	6.6	7.8	14.4	11.5	9.4	16.3	11.4	11.9	-	11.2	13.6	16.9	15.7	13.1	13.2	14.0	12.6	13.6
--	Specific Conductance	mhos/c	-	510	690	680	650	770	800	650	760	700	670	680	730	660	730	690	700	-	710	750	692.7	766.0	310.0	568.2	688.7	724.6	722.8
--	Eh Redox Potential	mV	-	100	112	135	164	132	135	126	242	174	137	47	144	14	106	105	39	-	92	205	141	165	193.5	149	80.1	117	213
--	Turbidity	NTU	-	4.0	8.9	71.8	5.8	7.4	5.0	17.3	33.5	60.0	468.0	4.2	63.4	5.5	5.2	12.6	3.0	-	8.6	4.8	3.0	2.9	4.4	11.0	4.9	3.9	1.5
--	Dissolved Oxygen	mg/L	-	8.45	5.29	6.12	7.33	5.71	5.14	8.51	7.45	8.45	13.20	6.04	4.44	-	6.54	6.08	8.13	-	9.23	8.20	7.28	6.63	4.69	7.00	7.71	7.85	5.50
--	Ferrus Iron	mg/L	-	0.00	0.14	0.32	0.00	0.15	0.00	0.00	0.00	0.71	0.88	0.00	0.06	0.00	0.22	0.03	0.17	-	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.14	0.12

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 7
MW-4B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-4B R1102151-007 4/20/2011	MW-4B R1104222-005 7/29/2011	MW-4B R1104222-005 11/17/2011	MW-4B R1201988-008 3/29/2012	MW-4B R1204156-005 6/28/2012	MW-4B R1206864-005 10/10/2012	MW-4B R1302598-007 4/16/2013	MW-4B R1306287-005 8/28/2013	MW-4B R1309370-005 12/11/2013	MW-4B R1403108-007 4/29/2014	MW-4B R1406796-005 8/29/2014	MW-4B R1408763-005 10/31/2014	MW-4B R1503148-007 4/29/2015	MW-4B R1506869-0005 8/19/2015	MW-4B R1510793-005 12/11/2015	MW-4B R1605971-008 6/7/2016	MW-4B R1612457-005, -017 11/23/2016	MW-4B R1704986-008 06/01/17	MW-4B R1709859-006 10/17/2017	MW-4B R1805745-006 6/20/2018	MW-4B R1809895-006 10/11/2018	MW-4B R1905853-001 6/21/2019	MW-4B R1910634-006 10/30/2019	MW-4B R2005293 6/19/2020	MW-4B R2010829 11/13/2020	MW-4B R2105683 6/8/2021	MW-4B R211850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	1.5J	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	0.98U	0.98U	0.98U	0.98U	1.3U	1.3U	1.4J	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	2.4 J	5.0U	5.0U	18	5.0U	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	0.35 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	0.32 BJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	0.28 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	3.9	3.9	5.3	5	6.4	5.1	4.7	4.6	4.4	5.2	3.8	3.1	4.8	3.6	5.6	6.1	4.3	1.0U	4.7	7.8	4.3	4.2	3.5	6.6	5.2	7.4	6.4
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	88	70	56	77	171	74	96	119	54	168	63	10	139	74	68	157	47	135	72	98.3	71	115	59	100	81	124	89
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.3	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	20U	4.0U	4.0U	4.0U	0.032	1.0U	1.0U	10	4.0U	10U	10U	1.0U	20U	10U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	1080	1100	854	892	1100	956	1120	1020	784	1330	969	405	1270	1090	939	1120	754	1150	894	1150	672	672	773	1190	906	1220	862
Field Measurements																														
--	Water Elevation	Feet	-	303.48	301.93	306.85	305.14	302.20	305.12	304.45	303.32	307.42	302.66	302.90	305.64	302.56	302.06	306.79	302.05	306.15	302.31	305.79	300.17	304.34	300.89	305.88	301.02	305.77	300.68	306.64
--	pH	Std. Units	-	7.81	7.67	7.83	7.67	7.80	7.82	7.68	7.80	8.00	8.00	7.60	8.00	7.80	7.70	7.90	7.80	7.90	7.70	8.00	7.83	8.37	7.51	7.36	8.05	7.09	7.81	7.83
	Temperature	C	-	9.0	11.6	10.5	9.9	12.7	11.4	11.1	12.9	8.3	9.6	12.4	10.5	10.4	12.3	11.5	10.6	10.3	10.2	12.5	10.4	13.9	10.3	12.4	12.0	12.2	11.0	12.6
--	Specific Conductance	mhos/c	-	4200	4100	3200	3900	4600	350	4300	4200	2600	4800	3700	1870	4500	4100	2600	4000	3000	4100	3100	4597	3898	1450	2761	4675	2601	4667	3278
--	Eh Redox Potential	mV	-	99	132	119	164	101	132	145	211	172	137	51	113	33	56	99	-10	-39	111	194	110	164	207.1	138.4	110.2	128.2	113	222
--	Turbidity	NTU	-	7.2	5.7	9.1	8.1	6.1	-	8.3	11.8	13.0	3.5	3.1	7.2	18.4	2.1	2.2	2.3	7.8	1.7	7.5	3.5	6.0	2.2	9.5	3.0	4.4	2.0	4.9
--	Dissolved Oxygen	mg/L	-	4.74	3.49	4.89	2.05	4.02	2.34	4.14	4.28	2.52	7.05	1.71	1.36	-	2.87	2.10	2.93	3.75	3.50	3.86	3.74	3.85	3.00	2.04	4.27	4.92	4.15	1.86
--	Ferrus Iron	mg/L	-	0.03	0.25	0.00	0.04	0.25	0.00	0.00	0.00	0.16	0.06	0.00	0.04	0.09	0.00	0.00	0.03	0.16	0.00	0.03	0.00	0.08	0.00	0.02	0.00	0.10	0.16	0.16

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 8
MW-5 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-5 R1102151-0078 4/20/2011	MW-5 R1104222-006 7/29/2011	MW-5 R1104222-006 11/17/2011	MW-5 R1201988-009 3/29/2012	MW-5 R1204156-006 6/28/2012	MW-5 R1206864-006 10/10/2012	MW-5 R1302598-008 4/16/2013	MW-5 R1306287-006 8/28/2013	MW-5 R1309370-006 12/11/2013	MW-5 R1403108-008 4/29/2014	MW-5 R1406796-006 8/29/2014	MW-5 R1408763-006 10/31/2014	MW-5 R1503148-008 4/29/2015	MW-5 R1506869-006 8/19/2015	MW-5 R1510793-006 12/11/2015	MW-5 R1605971-004 6/7/2016	MW-5 R1612457-006, -016 11/23/2016	MW-5 R1704986-009 06/01/17	MW-5 R1709859-007 10/17/2017	MW-5 R1805745-007 6/20/2018	MW-5 R1809895-007 10/11/2018	MW-5 R1905853-001 6/21/2019	MW-5 R1910634-007 10/30/2019	MW-5 R2005293 6/19/2020	MW-5 R2010829 11/13/2020	MW-5 R2105683 6/8/2021	MW-5 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	1.8U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.3U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	1.8U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	2.9U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	1.8U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	3.2U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	4.1U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	8.3U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	3.4U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	52	0.98U	2.1J	310D	2000D	3.5J	51	12	1.3U	63	27	1.3U	91	620 D	34	13	34	44	2.5 J	18	11	29B	5.0U	8.4	14	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	1.6U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	2.1U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.44J	2.1J	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	0.31 J	0.56 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	1.1U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	2.3U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.5U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	1.2U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	1.3U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	1.1U	0.21U	0.21U	0.21U	0.21U	0.21U	0.23 J	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	0.25 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	1.6U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	1.6U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.5U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	1.1U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	1.6U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	1.2U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.7U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	2.0 U	2.0U	2.0U	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	11	1.0U	1.0U	5.4	1.0U	1.0U	1.0U	1.1U	1.1U	1.4	1.1U	1.1U	1.5	1.1U	1.1U	1.1U
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	340	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	1090	100U	100U	100U	730	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	255	10U	10U	131	10U	44	10U	10U	10U	22	10U	18	22	17	75	12	26	264	86	10U	27	148	37	91	10	10U	10U
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	4.5	2.8	1.0U	5.1	1.8	1.0U	4.4	1.0U	1.0U	2.5	2.2	1.0U	1.8	1.0U	2.7	1.4	1.0U	1.0U	3.0	1.0U	2.7	1.1	1.7	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.010U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	5.5	58.1	75.4	11.7	56.7	81.6	5.4	60.7	18.2	12.5	51	61.2	11.2	71	75.5	58.2	59.7	4.9	79.1	50.7	65.8	62.6	64.5	47.4	68.5	64.5	53.3
Field Measurements																														
--	Water Elevation	Feet	-	321.63	317.97	316.92	320.80	324.35	316.40	321.67	318.10	319.24	321.18	318.47	317.24	320.86	317.48	317.25	319.10	315.76	320.99	318.00	319.22	316.61	320.19	318.00	319.11	315.57	319.04	318.70
--	pH	Std. Units	-	7.17	7.23	7.39	7.26	7.40	7.31	6.97	7.30	7.50	7.30	7.90	7.40	7.00	7.30	7.60	7.30	7.30	6.70	7.40	7.55	9.20	7.19	7.08	7.54	6.08	7.33	7.06
	Temperature	C	-	7.6	17.0	11.2	8.9	16.4	13.7	10.6	16.6	6.8	8.1	16.2	12.0	9.5	17.7	11.1	13.7	10.8	13.2	14.1	14.9	16.4	15.4	13.6	15.5	12.1	14.6	13.8
--	Specific Conductance	mhos/c	-	220	930	1030	240	1040	1150	170	970	480	340	780	990	190	1100	820	970	1100	230	1170	1106	1245	1020	689	1023	988	1216	990
--	Eh Redox Potential	mV	-	92	106	117	123	85	132	124	153	188	193	-11	140	-18	23	134	6	-29	-1	190	217	192	82.6	111.7	61.2	127	81	193
--	Turbidity	NTU	-	3.2	3.4	13.4	2.1	8.6	11.9	3.3	11.3	17.0	9.5	6.2	7.9	1.6	11.2	2.9	11.1	4.7	4.2	11.6	11.7	6.8	7.5	11.3	5.2	8.8	4.6	11.1
--	Dissolved Oxygen	mg/L	-	1.95	1.76	2.81	3.15	2.62	-	3.21	2.17	5.30	5.54	2.76	1.60	-	2.30	5.04	2.74	2.82	1.66	4.55	3.65	2.23	2.71	0.35	2.47	3.81	1.73	3.10
--	Ferrus Iron	mg/L	-	0.02	0.00	0.06	0.06	0.00	0.08	0.24	0.00	0.14	0.19	0.00	0.00	0.05	0.07	0.03	0.02	0.00	1.78	0.02	0.07	0.11	0.16	0.00	0.01	0.05	0.13	0.00

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 9
MW-9 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-9 R1102151-009 4/20/2011	MW-9 R1104222-007 7/29/2011	MW-9 R1104222-007 11/17/2011	MW-9 R120988-010 3/29/2012	MW-9 R1204156-007 6/28/2012	MW-9 R1206864-007 10/10/2012	MW-9 R1302598-009 4/16/2013	MW-9 R1306287-007 8/28/2013	MW-9 R1309370-007 12/11/2013	MW-9 R1403108-009 4/29/2014	MW-9 R1406796-007 8/29/2014	MW-9 R1408763-007 10/31/2014	MW-9 R1503148-009 4/29/2015	MW-9 R1506869-007 8/19/2015	MW-9 R1510793-007 12/11/2015	MW-9 R1605971-011 6/7/2016	MW-9 R1612457-007, -015 11/23/2016	MW-9 R1704986-010 06/01/17	MW-9 R1709859-008 10/17/2017	MW-9 R1805745-008 6/20/2018	MW-9 R1809895-008 10/11/2018	MW-9 R1905853-001 6/21/2019	MW-9 R1910634-007 10/30/2019	MW-9 R2005293 6/19/2020	MW-9 R2010829 11/13/2020	MW-9 R2105683 6/8/2021	MW-9 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	11	10	14	11	8.9	9.8	7.2	9.3	8.5	3.4	7.2	6.7	5.5	5.4	5.9	6.4	4.5	3.2	4.9	4.8	4.2	3.1	4.7	2.5	3.2	1.8	2.6
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	1.4J	0.93J	1.5	0.45J	1.1	0.57 J	0.71 J	0.52 J	1.2	0.72 J	0.56 J	0.39 J	0.83 J	0.68 J	0.45 J	1.0U	0.35 J	0.53 J	0.38 J	0.42 J	0.42J	0.5J	0.25J	0.66J	1.0U	0.39J
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.57J	0.58J	0.82J	0.46J	0.89J	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	0.29 J	0.36 J	1.0U	0.25J	1.0U	0.20J	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.2J	0.98U	1.2J	1.1J	2.1J	1.5J	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	5.0U	2.8 J	5.0U	9.0	5.0U	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.25 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.27 J	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	0.26 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.47J	0.61J	0.39J	0.73J	0.46J	0.63 J	0.67 J	0.60 J	0.30U	0.56 J	0.56 J	0.47 J	0.44 J	0.53 J	0.71 J	1.0U	0.45 J	0.87 J	0.52 J	0.61 J	0.47J	0.57J	0.52J	0.53J	0.53J	0.66J
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.62J	0.48J	0.55J	0.35J	0.63J	0.35 J	0.57 J	0.34 J	0.22U	0.68 J	0.55 J	0.25 J	0.43 J	0.38 J	0.36 J	1.0U	0.24 J	0.36 J	0.25 J	0.40 J	0.34J	0.44J	0.23J	0.38J	0.21J	0.4J
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	11	9.9	2.0U	8.2	2.0U	1.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.4	1.0U	1.0U	1.0U	1.0U	1.0U	1.1U	1.1U	1.3	1.1U	1.1U	1.1U	1.1U	1.1U	1.1U
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	36	13	16	11	26	32	28	20	28	16	18	42	17	31	15	11	10U	28	25	37.3	10U	22	10U	10U	10U	10U	10U
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	3.1	3.1	3.4	4.1	4.9	4.6	4.6	4.6	2.6	3.6	3.6	3.8	3.2	3.5	2.3	3.1	2.5	1.9	2.0	2.5	2.2	2.9	2.3	2	1.6	5.1	3.3
--	Nitrite (as N)	mg/L	-	3.0U	1.0U	1.0U	1.0U	0.040U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	73.3	68.7	67	57.6	52.9	56.1	57.9	57	63.6	58.5	50.2	52.3	65.3	53.3	60.4	50.5	50.8	57.7	65.5	52.3	55.1	91.1	59	50	51.6	53.5	58.5
Field Measurements																														
--	Water Elevation	Feet	-	320.43	317.19	316.43	319.96	317.81	316.15	320.90	317.37	318.39	321.71	317.56	316.60	319.81	316.87	316.65	318.51	315.76	320.48	317.63	318.57	316.50	319.28	317.33	318.32	315.58	318.71	318.18
--	pH	Std. Units	-	7.42	7.28	7.35	7.62	7.40	7.32	7.34	7.30	7.40	7.30	7.40	7.40	7.40	7.30	7.60	7.30	7.40	7.30	7.30	7.48	9.32	7.31	7.05	7.75	6.12	7.37	7.04
	Temperature	C	-	8.3	16.3	11.7	8.6	17.8	14.4	10.5	17.4	7.5	8.5	61.0	13.3	10.7	17.7	12.8	15.2	11.7	14.3	15.3	15.1	18.7	14.4	14.4	17.1	13.0	15.0	14.4
--	Specific Conductance	mhos/c	-	1040	1260	450	900	960	910	860	860	840	890	880	820	1010	890	780	820	870	870	870	884	885	458	929	984	750	911	881
--	Eh Redox Potential	mV	-	125	32	155	130	136	95	130	233	174	188	96	154	23	85	61	38	-46	99	197	167	144	227	165	91.2	134	149	198
--	Turbidity	NTU	-	45.4	12.6	58.5	3.6	65.4	29.3	18.4	36.2	45.0	37.9	5.3	3.5	14.0	3.6	2.8	1.7	9.3	4.8	4.2	3.3	3.8	9.0	11.3	2.5	7.8	1.9	11.5
--	Dissolved Oxygen	mg/L	-	2.54	1.68	5.01	2.70	3.77	4.31	2.91	5.22	4.61	7.33	4.41	3.15	-	5.30	4.07	6.78	5.90	3.10	4.92	3.31	5.67	1.71	4.82	2.92	6.94	4.18	2.68
--	Ferrus Iron	mg/L	-	0.14	0.10	0.11	0.01	0.00	0.37	0.06	0.00	0.51	0.83	0.05	0.00	0.06	0.15	0.00	0.02	0.02	0.03	0.06	0.00	0.02	0.00	0.00	0.00	0.12	0.22	0.16

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 10
MW-9B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-9B R1102151-010 4/20/2011	MW-9B R1104222-08 7/29/2011	MW-9B R1104222-08 11/17/2011	MW-9B R1201988-011 3/29/2012	MW-9B R1204156-008 6/28/2012	MW-9B R1206864-008 10/10/2012	MW-9B R1302598-010 4/16/2013	MW-9B R1306287-008 8/28/2013	MW-9B R1309370-008 12/11/2013	MW-9B R1403108-010 4/29/2014	MW-9B R1406796-0 8/29/2014	MW-9B R1408763-008 10/31/2014	MW-9B R1503148-010 4/29/2015	MW-9B R1506869-008 8/19/2015	MW-9B R1510793-008 12/11/2015	MW-9B R1605971-012 6/7/2016	MW-9B R1612457-008, -020 11/23/2016	MW-9B R1704986-011 06/01/17	MW-9B R1709859-009 10/17/2017	MW-9B R1805745-009 6/20/2018	MW-9B R1809895-009 10/11/2018	MW-9B R1905853-001 6/21/2019	MW-9B R1910634-009 10/30/2019	MW-9B R2005293 6/19/2020	MW-9B R2010829 11/13/2020	MW-9B R2105683 6/8/2021	MW-9B R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.7J	0.98U	0.98U	0.98U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	18	2.4J	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	7.5	7	7.3	6.9	7.5	7.3	4.9	7	4.1	4.2	4.3	3.2	7.1	2.6	1.4	11	3.7	4.3	3.3	6.3	4.7	3.7	1.1	5.5	4.7	6.1	4.5
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	200	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	30	41	37	35	52	41	34	34	34	33	31	26	34	28	26	24	40	26	25	29.1	31	32	28	30	26	28	24
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	2.0U	1.0U	1.0U	1.0U	0.039	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	671	834	643	698	684	722	700	632	675	720	66.1	678	687	678	702	642	640	633	677	656	620	590	652	644	638	645	617
Field Measurements																														
--	Water Elevation	Feet	-	302.05	300.74	305.55	304.09	301.21	303.95	302.85	302.28	306.69	302.41	302.01	304.99	301.61	301.36	306.06	301.44	305.34	301.46	304.79	300.25	303.29	299.99	303.58	300.01	304.85	300.29	305.49
--	pH	Std. Units	-	8.21	8.20	8.02	8.07	8.20	8.19	8.05	8.30	7.80	8.10	8.20	8.10	8.00	8.20	8.40	8.10	8.10	8.20	8.30	8.03	8.73	8.04	7.61	8.22	6.93	8.14	8.06
	Temperature	C	-	11.1	13.7	11.0	9.8	15.3	12.4	12.8	13.8	9.4	10.9	13.3	11.9	12.4	13.9	12.7	12.7	11.1	12.3	14.2	12.2	14.4	12.8	13.3	15.4	12.8	14.6	13.5
--	Specific Conductance	mhos/c	-	1980	1860	1750	2000	2200	1860	1870	1810	1840	2100	1820	1730	2000	1960	1660	1830	1740	1980	1780	1981	1739	1020	1349	1453	1312	1995	1750
--	Eh Redox Potential	mV	-	101	101	151	109	131	89	129	153	159	180	62	157	18	68	38	13	-87	71	104	151	120	217.5	129.7	97.6	117.9	95	188
--	Turbidity	NTU	-	11.2	7.8	4.2	7.5	7.7	3.6	8.0	6.5	6.6	13.1	5.1	2.5	2.8	9.3	1.2	4.9	5.8	4.8	3.9	5.8	3.8	8.5	3.7	1.8	5.4	3.9	1.3
--	Dissolved Oxygen	mg/L	-	1.94	2.21	3.86	3.32	2.27	2.31	3.11	2.76	3.00	6.51	2.54	1.97	-	2.48	2.31	1.79	3.77	2.37	4.14	2.41	2.63	1.68	2.34	1.95	3.68	2.25	1.79
--	Ferrus Iron	mg/L	-	0.00	0.36	0.00	0.00	0.06	0.00	-	0.00	0.08	0.25	0.00	0.05	0.03	0.10	0.00	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.09	0.23	0.00

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 11
MW-10 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-10 R1102151-011 4/20/2011	MW-10 R1104222-009 7/29/2011	MW-10 R1104222-009 11/17/2011	MW-10 R1201988-012 3/29/2012	MW-10 R1204156-009 6/28/2012	MW-10 R1206864-009 10/10/2012	MW-10 R1302598-011 4/16/2013	MW-10 R1306287-009 8/28/2013	MW-10 R1309370-009 12/11/2013	MW-10 R1403108-011 4/29/2014	MW-10 R1406796-009 8/29/2014	MW-10 R1408763-009 10/31/2014	MW-10 R1503148-011 4/29/2015	MW-10 R1506869-009 8/19/2015	MW-10 R1510793-009 12/11/2015	MW-10 R1605971-013 6/7/2016	MW-10 R1612457-009, -021 11/23/2016	MW-10 R1704986-012 06/01/17	MW-10 R1709859-010 10/17/2017	MW-10 R1805745-010 6/20/2018	MW-10 R1809895-010 10/11/2018	MW-10 R1905853-001 6/21/2019	MW-10 R1910634-010 10/30/2019	MW-10 R2005293 6/19/2020	MW-10 R2010829 11/13/2020	MW-10 R2105683 6/8/2021	MW-10 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23J	0.60J	0.23U	0.23U	0.46J	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.55 J	1.0U	1.0U	1.0U	0.37 J	1.0U	0.47 J	1.0U	1.0U	1.0U	1.0U	0.47J	1.0
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.0J	15	0.98U	0.98U	1.3U	1.3U	1.9J	1.5 J	1.3U	1.3U	1.3U	1.5 J	1.3U	1.3U	5.0U	5.0U	10 B	5.0U	5.0U	5.0U	14	2.8J	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	0.26 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.37J	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	2.0U	2.0U	2.0U	2.0U	6.2	1.0U	1.0U	12	240	1.0U	1.0U	20	1.0U	1.0U	3.4	1.0U	1.0U	1.0U	280	3.9	1.3	1.4	1.6	1.5	8	1.1U	4.3
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	310	530	100U	3190	100	100U	100U	330	1090	100U	100U	100U	100U	100U	100U	100U	100U	100U	910	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	18	48	726	2190	50	48	193	205	1180	77	23	234	254	10U	355	141	114	139	913	1300	1100	174	675	177	638	10U	839
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	2.8	8.4	7.6	1.7	5.8	5.8	2.1	2.5	1.2	1.0U	2.8	3.3	1.0U	3.8	3.4	1.9	1.0U	1.0U	1.0U	2.4	1.2	1.9	2.1	1.8	1.0U	5	1.7
--	Nitrite (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	0.018	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	41.3	44.3	44.3	39.1	50	53.5	35.7	50	46	36.7	40	38.6	42.7	46.7	46	53.6	59.0	69.8	41.1	50.0	51.3	59.2	46.4	43.6	56.9	52.7	46.5
Field Measurements																														
--	Water Elevation	Feet	-	322.02	322.15	317.01	320.92	318.62	316.51	322.09	318.18	319.37	320.98	318.58	317.32	321.07	317.69	317.29	319.15	315.73	321.22	318.07	319.21	316.80	320.13	314.27	319.21	315.48	319.12	318.73
--	pH	Std. Units	-	7.10	7.20	7.32	7.30	7.10	7.06	6.92	7.10	7.30	6.90	7.20	7.20	7.00	7.00	7.30	7.10	7.10	7.20	7.20	7.37	8.70	7.00	7.41	7.60	7.19	7.26	6.94
	Temperature	C	-	7.9	14.6	11.3	8.2	14.5	12.6	9.3	15.1	7.9	8.3	14.9	11.6	10.7	16.2	11.6	11.5	-	11.5	14.4	12.1	15.3	12.8	12.9	14.8	11.7	12.5	13.1
--	Specific Conductance	mhos/c	-	530	720	750	690	860	930	740	790	830	750	760	800	910	910	810	1000	1160	1080	860	958	1027	440	462	897	714	1005	1082
--	Eh Redox Potential	mV	-	120	84	149	114	193	93	138	59	34	204	45	155	15	75	77	10	-16	-26	92	226	138	223.1	126.1	92.7	104.5	111	209
--	Turbidity	NTU	-	30.5	7.3	156.0	13.8	9.9	9.2	4.4	11.2	18.0	6.4	3.9	3.7	2.5	6.4	4.5	6.0	8.0	1.5	9.0	1.4	1.8	7.4	3.8	5.6	11.7	8.8	6.8
--	Dissolved Oxygen	mg/L	-	2.98	3.00	4.05	5.35	2.45	5.92	2.79	3.12	2.14	8.22	3.48	3.75	-	6.39	4.85	3.48	2.81	2.30	3.46	3.55	5.37	3.16	4.17	2.79	5.19	4.49	1.58
--	Ferrus Iron	mg/L	-	0.01	0.00	0.50	0.04	0.05	0.00	0.00	0.18	1.53	0.49	0.00	0.07	0.86	0.08	0.04	0.00	0.00	0.11	0.30	0.00	0.00	0.00	0.01	0.07	0.16	0.10	0.18

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 12
MW-10B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-10B R1102151-013 4/20/2011	MW-10B R1201988-013 3/29/2012	MW-10B R1302598-012 4/16/2013	MW-10B R1403108-012 4/29/2014	MW-10B R1503148-012 4/29/2015	MW-10B R1605971-014 6/7/2016	MW-10B R1704986-013 6/1/2017	MW-10B R1805745-016 6/20/2018	MW-10B R1905853-001 6/21/2019	MW-10B R2005293 6/19/2020	MW-10B R2105683 6/8/2021
Volatile Organic Compounds														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	1.9	2.2	2.2	1.8	2.2	1.8	1.7	1.4	1.3	1.1
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.37J	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	1.4J	1.3U	1.3U	1.5 J	1.5 J	1.7 BJ	5.0U	7.5	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.32U	0.32U	0.60U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas														
74-82-8	Methane	µg/L	-	120D	190	210	180	170	57	110	36	3.7	1.7	2.8
Metals (Dissolved)														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	200	420	100U	100U	100U	630	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	49	62	87	79	78	66	105	65.7	36	45	23
Wet Chemistry														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	10U	10U	1.0U	5.0U	10U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	106	116	101	95.1	93	87.5	85.4	85.7	91	81.9	83
Field Measurements														
--	Water Elevation	Feet	-	304.61	306.42	305.72	304.39	305.13	306.90	307.95	307.60	308.38	308.47	308.68
--	pH	td. Unit	-	7.50	7.72	7.64	7.30	7.60	7.60	7.60	-	7.39	7.80	7.67
--	Temperature	C	-	10.8	10.9	11.8	10.0	12.6	12.8	11.6	11.5	11.9	13.8	12.1
--	Specific Conductance	mhos/c	-	1430	1430	1590	1680	1570	1490	1590	1526	1230	1516	1489
--	Eh Redox Potential	mV	-	104	-22	-10	200	21	-47	-68	10	213.4	115.6	110
--	Turbidity	NTU	-	1.4	4.0	5.7	12.4	8.3	15.6	8.9	6.7	11.3	4.0	3.9
--	Dissolved Oxygen	mg/L	-	1.96	1.22	1.86	6.01	-	1.82	3.14	2.59	7.92	7.83	5.37
--	Ferrus Iron	mg/L	-	0.01	0.19	0.79	0.33	0.24	0.06	0.71	0.00	0.21	0.12	0.29

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 13
MW-11 HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-11 R1102151-014 4/20/2011	MW-11 R1104222-010 7/29/2011	MW-11 R1104222-010 11/17/2011	MW-11 R1201988-014 3/29/2012	MW-11 R1204156-010 6/28/2012	MW-11 R1206864-010 10/10/2012	MW-11 R1302598-013 4/16/2013	MW-11 R1306287-010 8/28/2013	MW-11 R1309370-010 12/11/2013	MW-11 R1403108-013 4/29/2014	MW-11 R1406796-010 8/29/2014	MW-11 R1408763-010 10/31/2014	MW-11 R1503148-013 4/29/2015	MW-11 R1506869-010 8/19/2015	MW-11 R1510793-010 12/11/2015	MW-11 R1605971-009 6/7/2016	MW-11 R1612457-010, -022 11/23/2016	MW-11 R1704986-014 06/01/17	MW-11 R1709859-011 10/17/2017	MW-11 R1805745-011 6/20/2018	MW-11 R1809895-011 10/11/2018	MW-11 R1905853-001 6/21/2019	MW-11 R1910634-011 10/30/2019	MW-11 R2005293 6/19/2020	MW-11 R2010829 11/13/2020	MW-11 R2105683 6/8/2021	MW-11 R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	8.4	0.23U	0.23U	3.6	0.23U	0.36U	3.8	0.36U	0.36U	3.3	0.36U	0.36U	2.7	0.36U	0.36U	1.0U	1.0U	1.5	1.0U	1.0U	1.0U	2	0.63J	1.0U	0.42J	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	1.9J	1.9J	0.76J	1.4	1.9	0.25J	1.8	1.8	0.24 J	1.6	1.6	0.40 J	1.3	1.9	1.8	1.6	1.0U	2.2	1.6	1.7	0.27J	0.84J	1.4	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	0.32 J	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.3J	2.3J	0.98U	0.98U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	2.0 J	5.0U	5.0U	13	5.0U	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.21J	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	0.34 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.4	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.25 J	0.21U	0.21U	1.0U	1.0U	1.0U	0.22 J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.31J	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23J	0.23J	0.23J	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	2.0U	230D	180D	5.3	220D	87	1.0U	150	160	1.0U	120 D	44	1.0U	42	76	92	23	1.0U	57	65	14	1.1U	1.1U	58	1.1U	1.1U	1.1U
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	170	390	100U	310	390	100U	230	290	100U	200	270	100U	220	210	120	100U	100U	100U	100U	100U	100U	120	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	10U	260	188	134	204	210	10U	209	203	10U	172	184	10U	210	161	121	168	10U	146	116	105	107	770	100	10U	454	794
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.4	1.0U	1.0U	1.0U	1.0U	1.0U	1.3	1.0U	1.0U	1.6	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	10U	4.0U	4.0U	3.0U	0.010U	1.0U	1.0U	4.0U	4.0U	1.0U	10U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	60.7	74.5	76.6	67.3	71.6	78.9	45.1	76.6	77.5	50.7	72.1	76.3	54	71.2	78.9	77.8	81.6	49.7	85.0	76.3	81.7	51.9	64.9	70.9	52.0	67.6	45.0
Field Measurements																														
--	Water Elevation	Feet	-	315.14	311.91	311.45	314.38	312.41	310.64	315.65	312.14	313.12	314.80	312.52	311.45	314.47	311.58	311.85	312.83	310.22	314.76	312.17	313.22	310.77	314.54	313.69	313.53	312.35	313.88	313.84
--	pH	Std. Unit	-	7.36	7.16	7.34	7.43	7.30	7.20	7.22	7.20	7.30	7.20	7.30	7.30	7.30	7.20	7.50	7.30	7.30	7.20	7.40	7.57	9.10	6.92	7.01	7.90	6.19	7.23	6.86
	Temperature	C	-	7.7	13.1	11.3	8.8	14.3	12.1	9.0	13.6	6.8	6.9	12.8	11.4	10.3	14.7	12.4	11.0	9.8	11.0	13.2	10.2	14.7	11.2	13.2	12.3	12.3	13.7	13.7
--	Specific Conductance	mhos/c	-	1110	1710	1680	1490	1810	1600	790	1630	1670	790	1600	1530	890	1410	1390	1440	1350	850	1330	1361	1305	980	741	1294	703	1083	898
--	Eh Redox Potential	mV	-	119.1	4	-34	126	8	-22	127	36	174	163	2	31	5	-1	66	29	-51	152	133	43	58	220.3	94.7	72.6	133.8	120	204
--	Turbidity	NTU	-	2.0	2.3	6.1	7.6	30.6	5.0	4.7	13.2	17.0	11.0	7.2	4.2	10.7	16.0	5.7	22.9	6.6	1.0	48.7	1.2	15.9	4.9	3.2	8.5	11.4	1.0	0.3
--	Dissolved Oxygen	mg/L	-	5.79	1.08	4.41	2.45	1.74	1.84	5.85	1.62	3.09	8.91	1.35	1.60	-	2.28	1.59	1.37	2.24	3.83	3.51	2.33	2.67	1.69	3.31	1.09	6.24	2.10	1.38
--	Ferrus Iron	mg/L	-	0.05	0.72	0.46	0.00	0.43	0.42	0.00	0.58	0.52	0.36	0.20	0.31	0.02	0.12	0.40	0.18	0.18	0.00	0.22	0.01	0.22	0.15	0.02	0.00	0.04	0.16	0.00

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 14
MW-11B HISTORICAL GROUNDWATER QUALITY
NOURYON
BURT, NEW YORK

CAS	Parameter	Units	6NYCRR Part 703.5 Action Limits	MW-11B R1102151-015 4/20/2011	MW-11B R104222-011 7/29/2011	MW-11B R104222-011 11/17/2011	MW-11B R1201988-015 3/29/2012	MW-11B R1204156-011 6/28/2012	MW-11B R1206864-011 10/10/2012	MW-11B R1302598-014 4/16/2013	MW-11B R1306287-011 8/28/2013	MW-11B R1309370-011 12/11/2013	MW-11B R1403108-014 4/29/2014	MW-11B R1406796-011 8/29/2014	MW-11B R1408763-011 10/31/2014	MW-11B R1503148-014 4/29/2015	MW-11B R1506869-011 8/19/2015	MW-11B R1510793-011 12/11/2015	MW-11B R1605971-010 6/7/2016	MW-11B R1612457-011, -022 11/23/2016	MW-11B R1704986-015 06/01/17	MW-11B R1709859-012 10/17/2017	MW-11B R1805745-012 6/20/2018	MW-11B R1809895-012 10/11/2018	MW-11B R1905853-001 6/21/2019	MW-11B R1910634-012 10/30/2019	MW-11B R2005293 6/19/2020	MW-11B R2010829 11/13/2020	MW-11B R2105683 6/8/2021	MW-11B R2111850 11/9/2021
Volatile Organic Compounds																														
71-55-6	1,1,1-Trichloroethane (TCA)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-34-5	1,1,2,2-Tetrachloroethane	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-00-5	1,1,2-Trichloroethane	µg/L	1	5.0U	0.23U	0.23U	0.23U	0.23U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-34-3	1,1-Dichloroethane (1,1-DCA)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-35-4	1,1-Dichloroethene (1,1-DCE)	µg/L	5	5.0U	0.29U	0.29U	0.29U	0.29U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	0.57U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
107-06-2	1,2-Dichloroethane	µg/L	0.6	5.0U	0.20U	0.20U	0.20U	0.20U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
540-59-0	1,2-Dichloroethene (total)	µg/L	5	-	0.40U	0.40U	0.40U	0.40U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	0.63U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
78-87-5	1,2-Dichloropropane	µg/L	1	5.0U	0.28U	0.28U	0.28U	0.28U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
78-93-3	2-Butanone (Methyl Ethyl Ketone)	µg/L	50	10U	0.51U	0.51U	0.51U	0.51U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	0.81U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
591-78-6	2-Hexanone	µg/L	50	10U	0.35U	0.35U	0.35U	0.35U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	1.7U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
108-10-1	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	-	10U	0.27U	0.27U	0.27U	0.27U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	0.67U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
67-64-1	Acetone	µg/L	50	20U	2.0J	1.0J	0.98U	0.98U	1.3U	1.3U	1.3U	1.3U	1.3U	1.4 J	1.3U	1.3U	1.3U	1.3U	5.0U	5.0U	5.0U	5.0U	2.4 J	2.7 J	14	3.1J	5.0U	5.0U	5.0U	5.0U
71-43-2	Benzene	µg/L	1	5.0U	0.21U	0.21U	0.21U	0.21U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-27-4	Bromodichloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-25-2	Bromoform	µg/L	50	5.0U	0.27U	0.27U	0.27U	0.27U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	0.42U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-83-9	Bromomethane (Methyl Bromide)	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-15-0	Carbon disulfide	µg/L	-	10U	0.20U	0.20U	0.20U	0.20U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
56-23-5	Carbon tetrachloride	µg/L	5	5.0U	0.27U	0.27U	0.27U	0.27U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	0.45U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-90-7	Chlorobenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	0.29U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-00-3	Chloroethane	µg/L	5	5.0U	0.31U	0.31U	0.31U	0.31U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
67-66-3	Chloroform (Trichloromethane)	µg/L	7	5.0U	0.22U	0.22U	0.22U	0.22U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
74-87-3	Chloromethane (Methyl Chloride)	µg/L	-	5.0U	0.24U	0.24U	0.24U	0.24U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	0.21U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
124-48-1	Dibromochloromethane	µg/L	50	5.0U	0.20U	0.20U	0.20U	0.20U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	0.31U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-09-2	Dichloromethane (Methylene Chloride)	µg/L	5	5.0U	0.22U	0.22U	0.22U	0.22U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.60U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.58J	1.0U	1.0U	1.0U
100-41-4	Ethylbenzene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
100-42-5	Styrene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-4	Tetrachloroethene (PCE)	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	0.30U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
108-88-3	Toluene	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
79-01-6	Trichloroethene (TCE)	µg/L	5	5.0U	0.23U	0.23U	0.23U	0.23U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	0.22U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
75-01-4	Vinyl chloride	µg/L	2	5.0U	0.23U	0.23U	0.23U	0.23U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	0.32U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-01-5	cis-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	0.24U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
179061-23-1	Xylene - m,p	µg/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
95-47-6	Xylene - o	ug/L	5	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
10061-02-6	trans-1,3-Dichloropropene	µg/L	0.4	5.0U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dissolved Gas																														
74-82-8	Methane	µg/L	-	30	37	27	31	23	11	21	16	23	40	17	16	22	15	25	17	11	27	10	7.1	5.7	9.8	26	8.1	8.9	4.4	6.9
Metals (Dissolved)																														
7439-89-6	Iron (Dissolved)	µg/L	-	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U	100U
7439-96-5	Manganese (Dissolved)	µg/L	-	23	15	32	45	17	22	31	16	37	31	18	18	21	16	32	16	29	15	18	10.8	10U	10U	20	10U	10U	10U	10U
Wet Chemistry																														
--	Nitrate (as N)	mg/L	-	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Nitrite (as N)	mg/L	-	10U	1.0U	1.0U	4.0U	0.010U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
--	Sulfate	mg/L	-	164	92.5	379	300	86.3	220	191	108	348	91.7	85.9	158	128	97.3	351	82.3	351	76.7	184	88.0	168.0	77.3	143.0	79.5	189.0	71.4	167.0
Field Measurements																														
--	Water Elevation	Feet	-	303.10	301.66	306.20	304.87	301.89	304.79	303.57	303.03	306.92	302.50	302.74	306.36	302.47	301.83	306.30	302.01	305.75	302.32	305.49	301.05	304.07	300.86	305.55	300.98	305.45	300.73	306.40
--	pH	Std. Units	-	8.11	8.07	8.02	8.03	8.20	8.34	8.00	8.20	8.30	8.20	8.10	8.30	8.20	8.20	8.40	8.10	8.20	8.20	8.30	8.07	8.87	7.85	7.43	8.22	6.80	8.23	8.09
	Temperature	C	-	9.8	12.1	10.4	10.7	12.5	10.7	11.5	12.2	8.7	9.4	11.7	10.7	11.2	13.2	12.4	11.1	10.4	11.0	12.3	10.4	13.5	11.1	11.8	12.0	11.3	11.8	12.2
--	Specific Conductance	mhos/c	-	1060	740	1550	1570	850	1170	1200	820	1530	840	790	880	970	850	1330	780	1310	840	950	820	927	378	429	794	740	764	926
--	Eh Redox Potential	mV	-	87	117	48	145	117	48	121	210	174	162	80	146	-2	6.8	-29	14	-84	158	186	64	70	218.6	132.4	85.6	120	111	212
--	Turbidity	NTU	-	2.3	0.8	1.9	1.5	1.6	4.1	1.7	3.9	5.7	3.5	2.4	2.1	1.7	1.4	1.1	1.9	3.1	-	3.0	0.5	2.7	2.0	2.9	0.7	2.4	1.3	1.8
--	Dissolved Oxygen	mg/L	-	2.84	4.38	4.40	4.71	4.41	4.70	4.45	5.84	3.64	6.58	4.51	1.53	-	5.67	2.03	6.05	4.45	4.94	5.45	5.13	5.03	3.86	2.03	4.35	3.73	4.99	2.56
--	Ferrus Iron	mg/L	-	0.01	0.19	0.00	0.00	0.00	0.03	0.20	0.04	0.09	0.03	0.00	0.07	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.04	0.00	0.15	0.10

Notes:

-	Not analyzed
J	Estimated concentration
U	Not present at or above the associated vaule
##	Above 6 NYCRR Part 703.5 standards
B	Analyte was detected in associated method blank at a concentration that may have contributed to sample result
D	Diluted sample result
E	Concentration exceeded calibration range for analysis

TABLE 15

2021 GROUNDWATER STANDARD EXCEEDANCES

NOURYON

BURT, NEW YORK

PARAMETER	6 NYCRR PART 703 STANDARD OR [GUIDANCE VALUE]	MONITORING WELL LOCATION													
		MW-1		MW-1B		MW-2		MW-3		MW-3B		MW-4		MW-4B	
		Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter
Trichloroethene	5 ug/L	-	8	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 15

2021 GROUNDWATER STANDARD EXCEEDANCES

NOURYON

BURT, NEW YORK

PARAMETER	6 NYCRR PART 703 STANDARD OR [GUIDANCE VALUE]	MONITORING WELL LOCATION													
		MW-5		MW-9		MW-9B		MW-10		MW-10B		MW-11		MW-11B	
		Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter	Second Quarter	Fourth Quarter
Trichloroethene	5 ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 16

2021 SECOND QUARTER FIELD MEASUREMENTS

NOURYON FUNCTIONAL CHEMICALS, LLC

BURT, NEW YORK

Well ID	Well Type	Top of Casing (feet)	Depth to Water (feet BTOC)	Water Elevation (feet)	pH (units)	Temp. (°C)	Conductivity (umhos/cm)	Eh-Redox Potential (Millivolts)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)
MW-1	Background - Overburden	328.51	10.23	318.28	7.34	11.33	766	68.0	8.15	1.87	0.32
MW-1B	Background - Bedrock	328.29	9.49	318.80	7.64	12.0	3653	-27.0	5.64	1.44	1.90
MW-2	Source Area - Overburden	327.58	8.47	319.11	7.56	16.1	607	111.0	0.98	8.08	0.13
MW-3	Downgradient Boundary - Overburden	322.58	5.33	317.25	7.57	13.7	1040	97.0	2.07	7.41	0.08
MW-3B	Downgradient Boundary - Bedrock	321.85	11.86	309.99	8.10	12.3	587	54.0	9.60	1.95	0.16
MW-4	Downgradient Boundary - Overburden	323.12	9.24	313.88	7.47	12.6	725	117.0	3.94	7.85	0.14
MW-4B	Downgradient Boundary - Bedrock	323.66	22.98	300.68	7.81	11.0	4667	113.0	1.98	4.15	0.16
MW-5	Downgradient - Overburden	324.68	5.64	319.04	7.33	58.3	1216	81.0	4.62	7.73	0.13
MW-9	Downgradient - Overburden	325.03	6.32	318.71	7.37	15.0	911	149.0	1.85	4.18	0.22
MW-9B	Downgradient - Bedrock	325.21	24.92	300.29	8.14	14.6	1945	95.0	3.89	2.25	0.23
MW-10	Downgradient Offset - Overburden	328.39	9.27	319.12	7.26	12.5	1005	111.0	8.77	4.49	0.10
MW-10B	Downgradient Offset - Bedrock	328.12	19.44	308.68	7.67	12.1	1489	110.0	3.92	5.37	0.29
MW-11	Downgradient Boundary - Overburden	325.76	11.88	313.88	7.23	11.4	1083	120.0	0.96	2.10	0.16
MW-11B	Downgradient Boundary - Bedrock	325.32	24.59	300.73	8.23	11.8	764	111.0	1.30	4.99	0.15

Notes:

BTOC: Below Top of Casing.

mg/L: Milligram/liter.

umohs/cm: Micro-ohms/centimeter.

NTU: Nephelometric Turbidity Unit.

Eh-Redox: Oxygen Release Potential

*: Analytical upper limit

- : Not Sampled

TABLE 17

2021 FOURTH QUARTER FIELD MEASUREMENTS

NOURYON FUNCTIONAL CHEMICALS, LLC

BURT, NEW YORK

Well ID	Well Type	Top of Casing (feet)	Depth to Water (feet BTOC)	Water Elevation (feet)	pH (units)	Temp. (°C)	Conductivity (umhos/cm)	Eh-Redox Potential (Millivolts)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Ferrous Iron (mg/L)
MW-1	Background - Overburden	328.51	10.60	317.91	6.95	13.2	629	218.0	30.60	1.59	0.00
MW-1B	Background - Bedrock	328.29	-	-	-	-	-	-	-	-	-
MW-2	Source Area - Overburden	327.58	8.83	318.75	7.03	15.9	719	195.0	5.53	1.25	0.20
MW-3	Downgradient Boundary - Overburden	322.58	3.21	319.37	7.28	12.6	842	150.0	4.18	5.69	0.11
MW-3B	Downgradient Boundary - Bedrock	321.85	-	-	-	-	-	-	-	-	-
MW-4	Downgradient Boundary - Overburden	323.12	8.25	314.87	7.24	13.6	723	213.0	1.53	5.50	0.12
MW-4B	Downgradient Boundary - Bedrock	323.66	17.02	306.64	7.83	12.6	3278	222.0	4.94	1.86	0.16
MW-5	Downgradient - Overburden	324.68	5.98	318.70	7.06	13.8	990	193.0	11.10	3.10	0.00
MW-9	Downgradient - Overburden	325.03	6.85	318.18	7.09	14.4	881	198.0	11.45	2.68	0.16
MW-9B	Downgradient - Bedrock	325.21	19.72	305.49	8.06	13.5	1750	188.0	1.34	1.79	0.00
MW-10	Downgradient Offset - Overburden	328.39	9.66	318.73	6.94	13.1	1082	209.0	6.80	1.58	0.18
MW-10B	Downgradient Offset - Bedrock	328.12	-	-	-	-	-	-	-	-	-
MW-11	Downgradient Boundary - Overburden	325.76	11.92	313.84	6.86	13.7	898	204.0	0.34	1.38	0.00
MW-11B	Downgradient Boundary - Bedrock	325.32	18.92	306.40	8.09	12.2	926	212.0	1.84	2.56	0.10

Notes:

BTOC: Below Top of Casing.

mg/L: Milligram/liter.

umohs/cm: Micro-ohms/centimeter.

NTU: Nephelometric Turbidity Unit.

Eh-Redox: Oxygen Release Potential

*: Analytical upper limit

- : Not Sampled

Table 18
2021 SUMMARY OF MNA INDICATOR PARAMETER DATA
NOURYON

Well ID	ORP Millivolts	ORP Millivolts	Average ORP Millivolts	DO mg/L	DO mg/L	Average DO mg/L
	06/08/21	11/09/21	2021	06/08/21	11/09/21	2021
MW-1	68.0	218.0	143.0	1.9	1.6	1.7
MW-1B	-270.0	SNR	-270.0	1.4	SNR	1.4
MW-2	111.0	195.0	153.0	8.1	1.3	4.7
MW-3	97.0	150.0	123.5	7.4	5.7	6.6
MW-3B	54.0	SNR	54.0	2.0	SNR	2.0
MW-4	117.0	213.0	165.0	7.9	5.5	6.7
MW-4B	113.0	222.0	167.5	4.2	1.9	3.0
MW-5	81.0	193.0	97.2	1.7	3.1	2.4
MW-9	149.0	198.0	173.5	4.2	2.7	3.4
MW-9B	95.0	188.0	141.5	2.3	1.8	2.0
MW-10	111.0	209.0	160.0	4.5	1.6	3.0
MW-10B	110.0	SNR	110.0	5.4	SNR	5.4
MW-11	120.0	204.0	162.0	2.1	1.4	1.7
MW-11B	111.0	212.0	161.5	5.0	2.6	3.8
Average	76.2	200.2	138.2	4.13	2.63	3.38
Min	-270.0	150.0	-270.0	1.44	1.25	1.25
Max	149.0	222.0	222.0	8.08	5.69	8.08

Note: Highlighted cells indicate results consistent with reducing conditions in groundwater
SNR = Sampling Not Required
ND = Analyte Not Detected

Table 18
2021 SUMMARY OF MNA INDICATOR PARAMETER DATA
NOURYON

Well ID	Dissolved Iron ug/L	Dissolved Iron ug/L	Average ug/L	Dissolved Mn ug/L	Dissolved Mn ug/L	Average ug/L
	06/08/21	11/09/21	2021	06/08/21	11/09/21	2021
MW-1	550.0	ND	550.0	490.0	46.0	268.0
MW-1B	1870.0	SNR	1870.0	844.0	SNR	844.0
MW-2	150.0	ND	150.0	39.0	530.0	284.5
MW-3	ND	ND	ND	11.0	ND	11.0
MW-3B	ND	SNR	ND	73.0	SNR	73.0
MW-4	ND	ND	ND	ND	ND	ND
MW-4B	ND	ND	ND	124.0	89.0	106.5
MW-5	ND	ND	ND	ND	ND	ND
MW-9	ND	ND	ND	ND	ND	ND
MW-9B	ND	ND	ND	28.0	24.0	26.0
MW-10	ND	ND	ND	ND	839.0	839.0
MW-10B	ND	SNR	ND	23.0	SNR	23.0
MW-11	ND	ND	ND	454.0	794.0	624.0
MW-11B	ND	ND	ND	ND	ND	ND
Average	857	0	428	232	387	309
Min	150	0	0	11	24	11
Max	1870	0	1870	844	839	844

Note: Highlighted cells indicate results consistent with reducing conditions in groundwater
SNR = Sampling Not Required
ND = Analyte Not Detected

Table 18
2021 SUMMARY OF MNA INDICATOR PARAMETER DATA
NOURYON

Well ID	Sulfate mg/L	Sulfate mg/L	Average SO_4 mg/L	Nitrate mg/L	Nitrate mg/L	Average NO_3 mg/L	Methane ug/L	Methane ug/L	Average CH_4 ug/L
	06/08/21	11/09/21	2021	06/08/21	11/09/21	2021	06/08/21	11/09/21	2021
MW-1	82.2	45.3	63.8	ND	ND	ND	3.0	1.8	2.4
MW-1B	1390.0	SNR	1390.0	ND	SNR	ND	3.0	SNR	3.0
MW-2	87.5	76.1	81.8	3.2	ND	3.2	15.0	540.0	277.5
MW-3	98.3	65.4	81.9	ND	ND	ND	ND	ND	ND
MW-3B	45.2	SNR	45.2	ND	SNR	ND	21.0	SNR	21.0
MW-4	28.2	27.4	27.8	ND	ND	ND	ND	ND	ND
MW-4B	1220.0	862.0	1041.0	ND	ND	ND	7.4	6.4	6.9
MW-5	64.5	53.3	58.9	ND	ND	ND	ND	ND	ND
MW-9	53.5	58.5	56.0	5.1	3.3	4.2	ND	ND	ND
MW-9B	695.0	617.0	656.0	ND	ND	ND	6.1	4.5	5.3
MW-10	52.7	46.5	49.6	5.0	1.7	3.4	ND	4.3	4.3
MW-10B	83.0	SNR	83.0	ND	SNR	ND	2.8	SNR	2.8
MW-11	67.6	45.0	56.3	ND	ND	ND	ND	ND	ND
MW-11B	71.4	167.0	119.2	ND	ND	ND	4.4	6.9	5.7
Average	288.5	187.6	238.0	4	3	3.5	7.8	94.0	50.9
Min	28.2	27.4	27.4	3.2	1.7	1.7	2.8	1.8	1.8
Max	1390.0	862.0	1390.0	5.1	3.3	5.1	21.0	540.0	540.0

Note: Highlighted cells indicate results consistent with reducing conditions in groundwater
SNR = Sampling Not Required
ND = Analyte Not Detected

Figures



SOURCE REFERENCE:
NEW YORK STATE GIS CLEARINGHOUSE, 2008.

1000' 0 1000'
1"=1000'

Barton & Loguidice

NOURYON

SITE LOCATION MAP

TOWN OF BURT NIAGARA COUNTY, NEW YORK

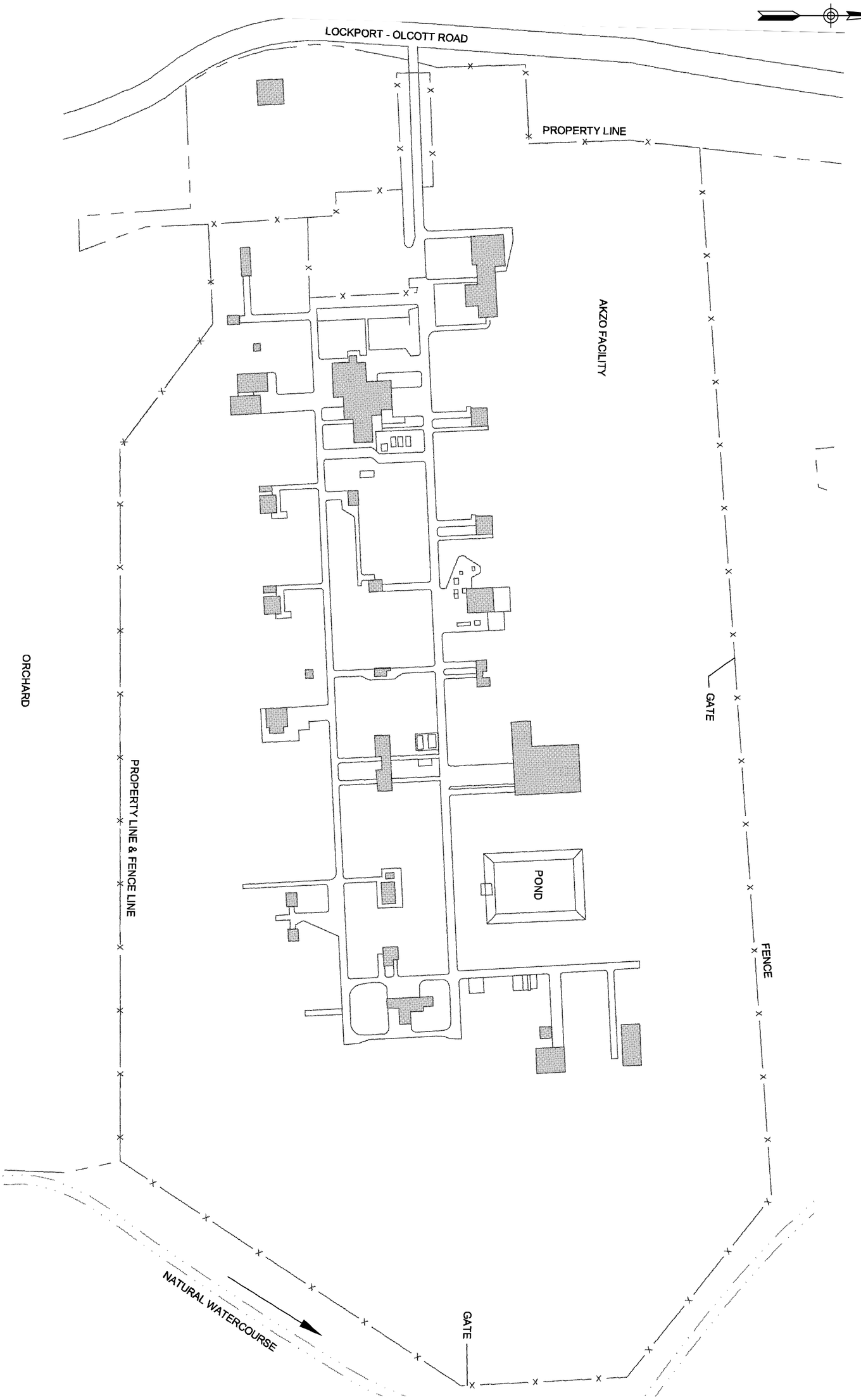
Date	Scale
FEBRUARY 2022	AS SHOWN

Figure Number
1

Project Number
1398.001.021

Plotted: Feb 28, 2022 - 12:02PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546665\L\L\1398001021_JUNE_2021_FIG1 (ID 2546665).dwg

Plotted: Feb 28, 2022 – 12:04PM SYR By: bas
Z:\BL-Vault\ID2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546667\L\L\1398001021_JUNE_2021_FIGS 2-3 (ID 2546667).dwg



Project Number	Figure Number	Scale	Date	
1398.001.021	2	1"=200'	FEBRUARY 2022	Barton & Loguidice

NOURYON

SITE LAYOUT

TOWN OF BURT NIAGARA COUNTY, NEW YORK

WELL LOCATIONS

NIAGARA COUNTY, NEW YORK

NOURYON

TOWN OF BURT

N

FENCE

GATE

MW-3B
MW-3

PROPERTY LINE

AKZO FACILITY

MW-6

MW-6, MW-7 AND MW-8
REMOVED FROM 2011
MONITORING PROGRAM

MW-5

MW-8

MW-7

POND

MW-4

MW-4B

MW-11

MW-11B

LOCKPORT - OLCOTT ROAD

MW-2

MW-9

MW-9B

MW-1B
MW-1

GATE

PZ-02

MW-10B

MW-10

NATURAL WATERCOURSE

PZ-03

PROPERTY LINE & FENCE LINE

ORCHARD

NOTE:

WELLS SURVEYED BY CRA FALL 2006/SPRING 2007 WITH REFERENCED ELEVATION OF 100.00'. WELLS RESURVEYED SPRING 2007 IN STATE PLANE NY WEST NAD83 VERTICAL DATUM NAVD88.

SOURCE:

TRC FIGURE FACILITY LOCATION MAP PJ.#19045

LEGEND:

MONITORING WELL

PIEZOMETER

Barton & Loguidice

Date	FEBRUARY 2022
Scale	1"=200'
Figure Number	3
Project Number	1398.001.021

Plotted: Feb 28, 2022 – 12:04PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546667\LL\1398001021_JUNE_2021_FIGS 2-3 (ID 2546667).dwg

N

MW-3
(317.25)

PROPERTY LINE

AKZO FACILITY

FENCE

GATE

317

316

315

314

318

319

MW-4
(314.87)

MW-11
(313.88)

MW-9
(318.71)

MW-10
(319.12)

MW-2
(319.11)

MW-5
(318.70)

POND

MW-1
(318.28)

GATE

LOCKPORT - OLCOTT ROAD

NATURAL WATERCOURSE

PROPERTY LINE & FENCE LINE

ORCHARD

NOTE:
WELLS SURVEYED BY CRA FALL 2006/SPRING 2007 WITH REFERENCED ELEVATION OF 100.00'. WELLS RESURVEYED SPRING 2007 IN STATE PLANE NY WEST NAD83 VERTICAL DATUM NAVD88.

SOURCE:
TRC FIGURE FACILITY LOCATION MAP PJ.#19045

LEGEND:

MONITORING WELL

322.02 GROUNDWATER ELEVATION (FT. AMSL)

GENERALIZED POTENTIOMETRIC SURFACE OVERBURDEN JUNE 2021

NOURYON

NIAGARA COUNTY, NEW YORK

TOWN OF BURT

Barton & Loguidice

Date
FEBRUARY 2022

Scale
1"=200'

Figure Number
4

Project Number
1398.001.021

Plotted: Feb 28, 2022 - 12:25PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546668\L\L\1398001021_JUNE_2021_FIGS 4-5 (ID 2546668).dwg

N

FENCE

GATE

MW–3B
(309.99)

AKZO FACILITY

PROPERTY LINE

MW–4B
(300.68)

MW–11B
(300.73)

LOCKPORT - OLCOTT ROAD

MW–9B
(300.29)

MW–10B
(308.68)

302

304

306

308

310

312

314

316

318

POND

MW–1B
(318.80)

GATE

NATURAL WATERCOURSE

PROPERTY LINE & FENCE LINE

ORCHARD

NOTE:
WELLS SURVEYED BY CRA FALL 2006/SPRING 2007 WITH REFERENCED ELEVATION OF 100.00'. WELLS RESURVEYED SPRING 2007 IN STATE PLANE NY WEST NAD83 VERTICAL DATUM NAVD88.

SOURCE:
TRC FIGURE FACILITY LOCATION MAP PJ.#19045

LEGEND:
MONITORING WELL
319.43 GROUNDWATER ELEVATION (FT. AMSL)

GENERALIZED POTENTIOMETRIC SURFACE BEDROCK JUNE 2021

NOURYON

NIAGARA COUNTY, NEW YORK

TOWN OF BURT

Barton & Loguidice

Date
FEBRUARY 2022

Scale
1"=200'

Figure Number
5

Project Number
1398.001.021

Plotted: Feb 28, 2022 - 12:33PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546668\L\L\1398001021_JUNE_2021_FIGS 4-5 (ID 2546668).dwg

N

MW-3
(319.37)

FENCE

GATE

AKZO FACILITY

PROPERTY LINE

314

316

318

MW-4
(314.87)

MW-11
(313.84)

LOCKPORT - OLCOTT ROAD

MW-9
(318.18)

MW-5
(318.70)

POND

MW-2
(318.75)

MW-10
(318.73)

318

GATE

MW-1
(317.91)

NATURAL WATERCOURSE

PROPERTY LINE & FENCE LINE

ORCHARD

NOTE:
WELLS SURVEYED BY CRA FALL 2006/SPRING 2007 WITH REFERENCED ELEVATION OF 100.00'. WELLS RESURVEYED SPRING 2007 IN STATE PLANE NY WEST NAD83 VERTICAL DATUM NAVD88.

SOURCE:
TRC FIGURE FACILITY LOCATION MAP PJ.#19045

LEGEND:

MONITORING WELL

315.73 GROUNDWATER ELEVATION (FT. AMSL)

GENERALIZED POTENTIOMETRIC SURFACE OVERBURDEN NOVEMBER 2021

NOURYON

NIAGARA COUNTY, NEW YORK

TOWN OF BURT

Barton & Loguidice

Date
FEBRUARY 2022

Scale
1"=200'

Figure Number
6

Project Number
1398.001.021

Plotted: Feb 28, 2022 - 12:41PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546666\L\L\1398001021_JUNE_2021_FIGS 6-7 (ID 2546666).dwg

N

FENCE

GATE

MW-3B
(NA)

AKZO FACILITY

PROPERTY LINE

MW-4B
(305.77)

MW-11B
(305.45)

LOCKPORT - OLCOTT ROAD

MW-9B
(304.85)

MW-10B
(NA)

INSUFFICIENT DATA

POND

MW-1B
(NA)

GATE

NATURAL WATERCOURSE

PROPERTY LINE & FENCE LINE

ORCHARD

NOTE:
WELLS SURVEYED BY CRA FALL 2006/SPRING 2007 WITH REFERENCED ELEVATION OF 100.00'. WELLS RESURVEYED SPRING 2007 IN STATE PLANE NY WEST NAD83 VERTICAL DATUM NAVD88.

SOURCE:
TRC FIGURE FACILITY LOCATION MAP PJ.#19045

LEGEND:

MONITORING WELL

302.06 GROUNDWATER ELEVATION (FT. AMSL)

GENERALIZED POTENTIOMETRIC SURFACE BEDROCK NOVEMBER 2021

NOURYON

NIAGARA COUNTY, NEW YORK

TOWN OF BURT

Barton & Loguidice

Date
FEBRUARY 2022

Scale
1"=200'

Figure Number
7

Project Number
1398.001.021

Plotted: Feb 28, 2022 - 12:42PM SYR By: bas
Z:\BL-Vault\D2\18217AD2-1C71-4823-8927-99D5C4054147\0\2546000-2546999\2546666\L\L\1398001021_JUNE_2021_FIGS 6-7 (ID 2546666).dwg

Appendix A

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE: Nouryon Chemical LLC
SAMPLE LOCATION: MW-1 Pump-X
CLIENT: Nouryon Chemical LLC
JOB #: 1398.001.021
Weather Conditions: cloudy
Temp: 75°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	10.23
Measured Well Depth (feet)*:	18
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.27

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or TJB
Date: 6-7-21
Time: 10:50

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 3.80
Volume of Water Purged (gallons): 4.00

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 10:37 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: Trace Fines
Odor: None

Field Measured Parameters

pH (Standard Units)	7.34	Sp. Conductivity (umhos/cm)	765.8
Temperature (F)	52.4	Eh-Redox Potential (mV)	68.0
Turbidity (NTUs)	8.15	Dissolved Oxygen (mg/L)	1.87
		Ferrous Iron or Fe II (mg/L)	0.32

Samples Collected (Number/Type) Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium
8 both x2 = 16

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS: Pump-X

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-1B
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	P.C.	Temp:	80s

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	9.49
Measured Well Depth (feet)*:	47
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	6.12

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or TJB
Date: 6-2-21
Time: 1044

PURGING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 18.36
Volume of Water Purged (gallons): 14.50 1/2 Gallon

Did well purge dry?	No	[X]	Yes	[X]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: immediate

SAMPLING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 1057 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.64	Sp. Conductivity (umhos/cm)	3653.0
Temperature (F)	53.6	Eh-Redox Potential (mV)	-270
Turbidity (NTUs)	5.64	Dissolved Oxygen (mg/L)	1.44
		Ferrous Iron or Fe II (mg/L)	1.90

Samples Collected (Number/Type) Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium
8 bottles

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
Finish Purging at 11:17 on 6/2/12 - Red/orange Accuvac

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	**Nouryon Chemical LLC**	**SAMPLE LOCATION:**	**MW-5**
CLIENT:	**Nouryon Chemical LLC**	**JOB #:**	**1398.001.021**
Weather Conditions:	P.C.	Temp:	80°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.64
Measured Well Depth (feet)*:	15
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.44

*depth from measuring point

Measuring point: ~~Top of Riser~~
Measured by: (BJM) or TJB
Date: 6/7/21
Time: 11:07

PURGING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 4.44
Volume of Water Purged (gallons): 4.50

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[ ]	Recovery Time: N/A

SAMPLING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: **BJM/ TJB** Time: 11:06 Date: 6/8/**2021**

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.33	Sp. Conductivity (umhos/cm)	1216.0
Temperature (F)	58.3	Eh-Redox Potential (mV)	81.0
Turbidity (NTUs)	4.62	Dissolved Oxygen (mg/L)	1.73
		Ferrous Iron or Fe II (mg/L)	0.13

Samples Collected (Number/Type) 8 ~~bottles~~ Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-3
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	P.C.	Temp:	90's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.33
Measured Well Depth (feet)*:	16.8
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.84

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or TJB
Date: 6/7/21
Time: 11:54

PURGING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 5.51
Volume of Water Purged (gallons): 5.50

Did well purge dry? No [X] Yes [ ] 1/2 Gallon
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/ TJB Time: 12:03 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.57	Sp. Conductivity (umhos/cm)	1040.0
Temperature (F)	56.6	Eh-Redox Potential (mV)	97.0
Turbidity (NTUs)	2.07	Dissolved Oxygen (mg/L)	7.41
		Ferrous Iron or Fe II (mg/L)	0.08

Samples Collected (Number/Type) 8 Bottles
Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
Finished purging @ 12:08 6/7/21

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-3B
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	P.C.	Temp:	85°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	11.86
Measured Well Depth (feet)*:	37.2
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	4.05

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or TJB
Date: 6/7/21
Time: 11:58

PURGING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 12.16
Volume of Water Purged (gallons): 12.25

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/ TJB Time: 12:08 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear - Trace Haze Sediment: Trace fine
Odor: None

Field Measured Parameters

pH (Standard Units)	8.10	Sp. Conductivity (umhos/cm)	586.8
Temperature (F)	54.2	Eh-Redox Potential (mV)	54.0
Turbidity (NTUs)	9.60	Dissolved Oxygen (mg/L)	1.95
		Ferrous Iron or Fe II (mg/L)	0.16

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS: Finished purging @ 12:15 on 6/7/21

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-4
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	P.C.	Temp:	80's

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	9.24
Measured Well Depth (feet)*:	16
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.08

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 12:47

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 3.24
Volume of Water Purged (gallons): 3.25

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 12:39 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.47	Sp. Conductivity (umhos/cm)	724.6
Temperature (F)	54.7	Eh-Redox Potential (mV)	117.0
Turbidity (NTUs)	~~3.44~~ 2.94	Dissolved Oxygen (mg/L)	7.85
		Ferrous Iron or Fe II (mg/L)	0.14

Samples Collected (Number/Type) 2 bottles — Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
purge end 12:55

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-4B
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	Cloudy	Temp:	80°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	22.98
Measured Well Depth (feet)*:	40.9
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	2.96

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 12:44

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 8.00
Volume of Water Purged (gallons): 3.75 1/3 Casing

Did well purge dry?	No [ ]	Yes	[X]	
Did well recover?	No [ ]	Yes	[X]	Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 12:51 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.81	Sp. Conductivity (umhos/cm)	4667.0
Temperature (F)	51.8	Eh-Redox Potential (mV)	113.0
Turbidity (NTUs)	1.98	Dissolved Oxygen (mg/L)	4.15
		Ferrous Iron or Fe II (mg/L)	0.16

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
Purge end 15:10

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-11
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	cloudy / drizzle	Temp:	80°

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	11.88
Measured Well Depth (feet)*:	21.1
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.48

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 13:24

PURGING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 4.45
Volume of Water Purged (gallons): 4.50

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/ TJB Time: 13:30 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.23	Sp. Conductivity (umhos/cm)	1083.0
Temperature (F)	52.6	Eh-Redox Potential (mV)	120.0
Turbidity (NTUs)	0.46	Dissolved Oxygen (mg/L)	2.10
		Ferrous Iron or Fe II (mg/L)	0.16

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS: purge end 13:36

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-11B
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	Cloudy / Light Rain	Temp:	80°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	24.59
Measured Well Depth (feet)*:	52.38
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	~~0~~ 4.45

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 13:25

PURGING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 13.34
Volume of Water Purged (gallons): 13.50

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/ TJB Time: 13:39 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	8.23	Sp. Conductivity (umhos/cm)	763.6
Temperature (F)	53.3	Eh-Redox Potential (mV)	111.0
Turbidity (NTUs)	1.30	Dissolved Oxygen (mg/L)	4.99
		Ferrous Iron or Fe II (mg/L)	0.15

Samples Collected (Number/Type) 9 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
purge end 13:40

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-9
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	Cloudy / Rain	Temp:	80's F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.32
Measured Well Depth (feet)*:	17.4
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.77

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or TJB
Date: 6/7/21
Time: 13:49

PURGING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 5.32
Volume of Water Purged (gallons): 5.50

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: overnight

SAMPLING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 14:12 Date: 6/8 /2021

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.37	Sp. Conductivity (umhos/cm)	911.4
Temperature (F)	59.0	Eh-Redox Potential (mV)	149.0
Turbidity (NTUs)	1.95	Dissolved Oxygen (mg/L)	4.18
		Ferrous Iron or Fe II (mg/L)	0.22

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
purge end 14:12 - rain storm delay

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE: Nouryon Chemical LLC
SAMPLE LOCATION: MW-9B (MS/MSD)
CLIENT: Nouryon Chemical LLC
JOB #: 1398.001.021
Weather Conditions: Cloudy / Drizzle
Temp:

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	24.92
Measured Well Depth (feet)*:	42.2
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	2.76

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 13:50

PURGING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 8.24
Volume of Water Purged (gallons): 5.00
Did well purge dry? No [ ] Yes [X] 1/2 Gallon
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/ TJB Time: 14:18 Date: 6/7/2021

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	@ 8.14	Sp. Conductivity (umhos/cm)	1445.0
Temperature (F)	58.3	Eh-Redox Potential (mV)	95.0
Turbidity (NTUs)	3.89	Dissolved Oxygen (mg/L)	2.25
		Ferrous Iron or Fe II (mg/L)	0.23

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
(MS/MSD) pump end 14:20

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Chemical LLC**	**SAMPLE LOCATION:**	**MW-10**
CLIENT:	**Nouryon Chemical LLC**	**JOB #:**	**1398.001.021**
Weather Conditions:	P-C-	Temp:	80°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	9.22
Measured Well Depth (feet)*:	17.6
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.33

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 14:25

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): ~~4~~ 4.0
Volume of Water Purged (gallons): 4.5

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: **BJM/ TJB** Time: 14:34 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: Clear - Slight Haze Sediment: None to Trace Fine
Odor: None

Field Measured Parameters

pH (Standard Units)	7.26	Sp. Conductivity (umhos/cm)	1005.0
Temperature (F)	54.5	Eh-Redox Potential (mV)	111.0
Turbidity (NTUs)	8.77 ~~4.24~~	Dissolved Oxygen (mg/L)	~~0~~ 4.99
		Ferrous Iron or Fe II (mg/L)	0.10

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
pump end 14:36

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Chemical LLC**	**SAMPLE LOCATION:**	**MW-10B**
CLIENT:	**Nouryon Chemical LLC**	**JOB #:**	**1398.001.021**
Weather Conditions:	P.C.	Temp:	80

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	19.44
Measured Well Depth (feet)*:	46.6
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	4.2 X

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: 14:26

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 12.74
Volume of Water Purged (gallons): 6.50

Did well purge dry?	No [ ]	Yes	[X]	
Did well recover?	No [ ]	Yes	[X]	Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: **BJM/ TJB** Time: 14:38 Date: 6/8 **/2021**

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.67	Sp. Conductivity (umhos/cm)	1489.0
Temperature (F)	53.8	Eh-Redox Potential (mV)	110.0
Turbidity (NTUs)	3.92	Dissolved Oxygen (mg/L)	5.37
		Ferrous Iron or Fe II (mg/L)	0.29

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:

end purge ~~14:38~~ 14:39

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	Nouryon Chemical LLC	**SAMPLE LOCATION:**	MW-2
CLIENT:	Nouryon Chemical LLC	**JOB #:**	1398.001.021
Weather Conditions:	P.C.	Temp:	80°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.47
Measured Well Depth (feet)*:	16.4
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.27

*depth from measuring point

Measuring point: Top of Riser
Measured by: BJM or (TJB)
Date: 6/7/21
Time: ~~14:42~~ 14:52

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): ~~3.81~~
Volume of Water Purged (gallons): 4.00

Did well purge dry?	No [X]	Yes [ ]		
Did well recover?	No [ ]	Yes [X]	Recovery Time:	overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/ TJB Time: 15:06 Date: 6/8/2021

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None - faint/stale

Field Measured Parameters

pH (Standard Units)	7.56	Sp. Conductivity (umhos/cm)	606.8
Temperature (F)	61.0	Eh-Redox Potential (mV)	111.0
Turbidity (NTUs)	0.48	Dissolved Oxygen (mg/L)	8.08
		Ferrous Iron or Fe II (mg/L)	0.13

Samples Collected (Number/Type) 8 bottles — Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: ____

COMMENTS:
purge on 15:08 1ST Time NO faint /Stale/ earthy odor

Calibration Record

Project No: Akzo Nobel

Date: 6-8-21

Calibrated By: TJB

Time: 0955

pH Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
pH 4:	4.00	(+/- 1.0 pH, pH 3.0 - 5.0)
pH 7:	7.00	(+/- 1.5 pH, pH 5.5 - 8.5)
pH 10:	10.01	(+/- 1.0 pH, ph 9.0 - 11.0)

Sp.Conductivity
Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
7000 uS	7004	(+/- 1.0 % Error)

ORP Instrument Model:

Standard Solution	Calibration Reading	Acceptable Range
		Myron 6p ORP calibration is calculated by pH and SPC values

Turbidimeter Model: LaMotte 2020we

Standard Solution	Calibration Reading	Acceptable Range
0.0	Blank	Blank 0.0 NTU
1.0	0.99	(0.5-1.5 NTU)
10.0	10.01	(8-12 NTU)

Dissolved Oxygen Meter Model: YSI EcoSense

Saturated Air	Air Pressure (MB)	Calibration Reading	Acceptable Range
100%			(+/- 5.0% Error, 95-105%)

Comments ORP cal'd w/ pH

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

3901 Coconut Palm Dr. Ste 107
Tampa, FL 33619
Direct: 813-620-1001

Pine Environmental Services, Inc.

Instrument ID 44297
Description YSI PRO ODO Disolved Oxygen Meter
Calibrated 6/2/2021 2:20:42PM

Manufacturer YSI
Model Number PRO ODO
Serial Number/ Lot Number 18K104806
Location Florida
Department

State Certified
Status Pass
Temp °C 23.5
Humidity % 54

Calibration Specifications

Group # 1
Group Name Disolved Oxygen Span
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.00 / 100.00	%	100.00	%	113.70	100.00	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Donny Mahadeo

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T050691

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Akzo Nobel	
Project Number: 1398.003.001	Report To: Brian McGrath
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614	
Phone # 585-325-7190	FAX #
Sampler Signature	Sampler Printed Name: Brian T. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-11		6/8/21	13:30	Liquid	8	X	X	X	X	X	X	X	
MW-11B		6/8/21	13:39	Liquid	8	X	X	X	X	X	X	X	
MW-1B		6/8/21	10:52	Liquid	8	X	X	X	X	X	X	X	
MW-3B		6/8/21	12:08	Liquid	8	X	X	X	X	X	X	X	
MW-10B		6/8/21	14:38	Liquid	8	X	X	X	X	X	X	X	
Trip Blank				Liquid	3			X					
17.				Liquid									
18.				Liquid									
19.				Liquid									
20.				Liquid									

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements

X I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Cilibration Summaries

___ IV. Data Validation Report with Raw Data

EData _____Yes _____No

Invoice Information

P.O.#_____

Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: B+L	Printed Name: Daniel Wald	Printed Name	Printed Name	Printed Name	Printed Name
Firm: 6/8/21 1720	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 6/8/21 1720	Date/Time	Date/Time	Date/Time	Date/Time

pg 2 of 2

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# T050691

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Nouryon
Project Number: 1398.003.001
Report To: Brian McGrath
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614
Phone #: 585-325-7190
FAX #:
Sampler Signature:
Sampler Printed Name: Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-1		6/8/21	10:32	Liquid	8	X	X	X	X	X	X	X	
Dupe-1		6/8/21	—	Liquid	8	X	X	X	X	X	X	X	
MW-2		6/8/21	15:06	Liquid	8	X	X	X	X	X	X	X	
MW-3		6/8/21	12:03	Liquid	8	X	X	X	X	X	X	X	
MW-4		6/8/21	12:39	Liquid	8	X	X	X	X	X	X	X	
MW-4B		6/8/21	12:51	Liquid	8	X	X	X	X	X	X	X	
MW-5		6/8/21	11:06	Liquid	8	X	X	X	X	X	X	X	
MW-9		6/8/21	14:12	Liquid	8	X	X	X	X	X	X	X	
MW-9B	MS/MSD	6/8/21	14:18	Liquid	16	X	X	X	X	X	X	X	
MW-10		6/8/21	14:34	Liquid	8	X	X	X	X	X	X	X	

Special Instructions/Comments:

Turnaround Requirements
- ___ RUSH (SURCHARGES APPLY)
- X Standard

REQUESTED FAX DATE

Requested Report Date

Report Requirements
- X I. Results Only
- X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ___ III. Results + QC and Cilibration Summaries
- ___ IV. Data Validation Report with Raw Data

EData _____Yes _____No

Invoice Information

P.O.#

Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Brian J. McGrath	Signature:	Signature	Signature	Signature	Signature
Printed Name: B+L	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: 6/8/21 1720	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 6/8/21 1720	Date/Time	Date/Time	Date/Time	Date/Time

Pg 1 of 2

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-1 (Dupe-X)
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	Sunny	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	10.6
Measured Well Depth (feet)*:	18
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.18

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 11:53 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 3.5
Volume of Water Purged (gallons): 3.5

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/~~JMW3~~ Time: 04:40 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Slight Brownish Sediment: Lots of Fines
Odor: None

Field Measured Parameters

pH (Standard Units)	6.45	Sp. Conductivity (umhos/cm)	628.4
Temperature (F) C	13.2	Eh-Redox Potential (mV)	218.0
Turbidity (NTUs)	30.6	Dissolved Oxygen (mg/L)	1.54
		Ferrous Iron or Fe II (mg/L)	0.00

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium
x2 = 16 bottles Dupe X

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:
Concrete protective casing Frost Heave - will check #2 2022

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Polymer Chemistry**	**SAMPLE LOCATION:**	**MW-5**
CLIENT:	**Nouryon Polymer Chemistry**	**JOB #:**	**1398.001.021**
Weather Conditions:	Sunny	Temp:	65

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.98
Measured Well Depth (feet)*:	15
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.44

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 1210 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 4.33
Volume of Water Purged (gallons): 4.5

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/~~JMW~~ Time: 1016 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Slight white Haze Sediment: Fines Present
Odor: None

Field Measured Parameters

pH (Standard Units)	7.06	Sp. Conductivity (umhos/cm)	990.4
Temperature (F) C	13.8	Eh-Redox Potential (mV)	193.0
Turbidity (NTUs)	11.1	Dissolved Oxygen (mg/L)	3.10
		Ferrous Iron or Fe II (mg/L)	0.0

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: _____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Polymer Chemistry**	**SAMPLE LOCATION:**	**MW-3**
CLIENT:	**Nouryon Polymer Chemistry**	**JOB #:**	**1398.001.021**
Weather Conditions:	Sunny	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.21
Measured Well Depth (feet)*:	16.8
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	2.17

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 12:29 Date: 11/ 8 /21

PURGING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 6.52
Volume of Water Purged (gallons): 6.5 1/2 Gal/e

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM ~~JMW3~~ Time: 10:44 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.28	Sp. Conductivity (umhos/cm)	842.3
Temperature (F)(C)	12.6	Eh-Redox Potential (mV)	150.0
Turbidity (NTUs)	4.18	Dissolved Oxygen (mg/L)	5.69
		Ferrous Iron or Fe II (mg/L)	0.11

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-4
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	Sunny	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.25
Measured Well Depth (feet)*:	16
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.24

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 12:30 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 3.72
Volume of Water Purged (gallons): 3.75

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM~~/JMW3~~ Time: 13:37 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	7.24	Sp. Conductivity (umhos/cm)	722.8
Temperature (~~F~~) C	13.6	Eh-Redox Potential (mV)	213.0
Turbidity (NTUs)	1.53	Dissolved Oxygen (mg/L)	5.50
		Ferrous Iron or Fe II (mg/L)	0.12

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Polymer Chemistry**	**SAMPLE LOCATION:**	**MW-4B**
CLIENT:	**Nouryon Polymer Chemistry**	**JOB #:**	**1398.001.021**
Weather Conditions:	Sunny	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	17.02
Measured Well Depth (feet)*:	40.9
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	3.82

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 12:40 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 11.46
Volume of Water Purged (gallons): 5.5

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: ~~BJM/JMW3~~ BJM Time: 11:50 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: Trace fines
Odor: None

Field Measured Parameters

pH (Standard Units)	7.83	Sp. Conductivity (umhos/cm)	3278.0
Temperature (~~F~~) C	12.6	Eh-Redox Potential (mV)	222.0
Turbidity (NTUs)	4.94	Dissolved Oxygen (mg/L)	1.86
		Ferrous Iron or Fe II (mg/L)	0.16

Samples Collected (Number/Type) Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-11
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	P.C	Temp:	45°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	11.92
Measured Well Depth (feet)*:	21.1
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.47

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 13:35 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 4.41
Volume of Water Purged (gallons): 5.00

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: ____

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/~~JMW~~ Time: 12:23 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	6.86	Sp. Conductivity (umhos/cm)	848.4
Temperature (C)	13.7	Eh-Redox Potential (mV)	204.0
Turbidity (NTUs)	0.34	Dissolved Oxygen (mg/L)	1.38
		Ferrous Iron or Fe II (mg/L)	0.06

Samples Collected (Number/Type) Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS: purge water was Brn tinted w/ settleable solids (Brn) throughout

B&L Form No. 127 Rev. 4/14 (BJM)

Ust have been in this well before, but this purge water seems different - No odor change
11/4/21 - well cleared up for parameters

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-11B
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	Clear	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	18.42
Measured Well Depth (feet)*:	52.38
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	5.35

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 13:~~40~~ 41 Date: 11/ 8 /21

PURGING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 16.06
Volume of Water Purged (gallons): 16.25

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment: Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/~~JMW3~~ Time: 12:40 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	~~9~~ 9.09	Sp. Conductivity (umhos/cm)	925.9
Temperature (~~F~~) C	12.2	Eh-Redox Potential (mV)	212.0
Turbidity (NTUs)	1.94	Dissolved Oxygen (mg/L)	2.56
		Ferrous Iron or Fe II (mg/L)	0.10

Samples Collected (Number/Type) Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: _____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE:	**Nouryon Polymer Chemistry**	**SAMPLE LOCATION:**	**MW-9**
CLIENT:	**Nouryon Polymer Chemistry**	**JOB #:**	**1398.001.021**
Weather Conditions:	Cloudy	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.85
Measured Well Depth (feet)*:	17.4
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.69

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 14:30 Date: 11/ 8 /21

PURGING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 5.06
Volume of Water Purged (gallons): 5.25

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: overnight

SAMPLING METHOD

Equipment:						
	Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
	Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
	Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/~~JMW~~ Time: 13:12 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Slight Haze Sediment: Fines Present
Odor: None

Field Measured Parameters

pH (Standard Units)	7.09	Sp. Conductivity (umhos/cm)	881.2
Temperature (F)	14.4	Eh-Redox Potential (mV)	198.0
Turbidity (NTUs)	11.45	Dissolved Oxygen (mg/L)	2.68
		Ferrous Iron or Fe II (mg/L)	0.16

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-9B
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	Cloudy	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	19.72
Measured Well Depth (feet)*:	42.2
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	3.50

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 14:40 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 10.79
Volume of Water Purged (gallons): 6.75

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/~~JMW~~ Time: 13:25 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: None
Odor: None

Field Measured Parameters

pH (Standard Units)	8.06	Sp. Conductivity (umhos/cm)	1750.0
Temperature (F) C	13.5	Eh-Redox Potential (mV)	188.0
Turbidity (NTUs)	1.34	Dissolved Oxygen (mg/L)	1.79
		Ferrous Iron or Fe II (mg/L)	0.0

Samples Collected (Number/Type) 8 bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

Barton & Loguidice

FIELD SAMPLING DATA SHEET

SITE: Nouryon Polymer Chemistry
SAMPLE LOCATION: MW-10 (MS/MSD)
CLIENT: Nouryon Polymer Chemistry
JOB #: 1398.001.021
Weather Conditions: Cloudy
Temp: 65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	9.66
Measured Well Depth (feet)*:	17.6
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.27

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 14:55 Date: 11/ 8 /21

PURGING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Calculate Volume of Water to Be Purged (gallons): 3.81
Volume of Water Purged (gallons): 4.00

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:
Bailer [X] Submersible Pump [ ] Air Lift System [ ]
Bladder Pump [ ] Foot Valve [ ] Peristaltic Pump [ ]
Dedicated [X] *Non-dedicated* [ ]

Sampled by: BJM/~~JMW~~ Time: 14:00 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: clear Sediment: Trace Rinds
Odor: Faint Sulfur

Field Measured Parameters

pH (Standard Units)	6.94	Sp. Conductivity (umhos/cm)	1082.0
Temperature (~~F~~)C	13.1	Eh-Redox Potential (mV)	209.0
Turbidity (NTUs)	6.80	Dissolved Oxygen (mg/L)	1.58
		Ferrous Iron or Fe II (mg/L)	0.18

Samples Collected (Number/Type) 8 Bottles x 2 = 16 Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202'

COMMENTS:

(MS/MSD)

FIELD SAMPLING DATA SHEET

Barton & Loguidice

SITE:	Nouryon Polymer Chemistry	**SAMPLE LOCATION:**	MW-2
CLIENT:	Nouryon Polymer Chemistry	**JOB #:**	1398.001.021
Weather Conditions:	Cloudy	Temp:	65°F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	3.83
Measured Well Depth (feet)*:	16.4
Well Casing Diameter (inches):	2"
Volume in Well Casing (gallons):	1.21

*depth from measuring point

Measuring Point: Top of Riser [X]
Other (specify):
Measured by: BJM
Time: 15:14 Date: 11/ 8 /21

PURGING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Calculate Volume of Water to Be Purged (gallons): 3.63
Volume of Water Purged (gallons): 3.75

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: overnight

SAMPLING METHOD

Equipment:

Bailer	[X]	Submersible Pump	[ ]	Air Lift System	[ ]
Bladder Pump	[ ]	Foot Valve	[ ]	Peristaltic Pump	[ ]
Dedicated	[X]	*Non-dedicated*	[ ]		

Sampled by: BJM/JMW Time: 14:25 Date: 11/09/21

SAMPLING DATA

Sample Appearance
Color: Slight Haze Sediment: Fines Present
Odor: None

Field Measured Parameters

pH (Standard Units)	7.03	Sp. Conductivity (umhos/cm)	719.0
Temperature (F)C	15.4	Eh-Redox Potential (mV)	195.0
Turbidity (NTUs)	5.53	Dissolved Oxygen (mg/L)	1.25
		Ferrous Iron or Fe II (mg/L)	0.20

Samples Collected (Number/Type) 8 Bottles Voc's, Nitrate, Nitrite, Sulfate, Methane, and Dissolved Iron and Magnesium

Samples Delivered to: ALS Labs Time: ____ Date: 11 / 9 /202

COMMENTS:

Eco-Rental Solutions

Calibration Certificate

rev 8/9/11

Work Order No.: SE-096655
Date of Service: 11/04/21
Order Time: 4:33:57 PM

Unit Under Test: Lamotte 2020WE Turbidity Meter

Asset No.: FA01464
Serial No: 4451-2214

Technician: Judson Goode

Initials:

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
Turbidity Free Water	Lot#6GE1000 Exp: N/A	1
1.0 NTU AMCO Turbidity Standard	Lot No.21010248 Exp. 04/22	1
10 NTU AMCO Turbidity Standard	Lot No. 21140199 Exp.04/22	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

Eco-Rental Solutions

Calibration Certificate

rev 8/9/11

Work Order No.: SE-096490
Date of Service: 11/01/21
Order Time: 3:38:35 PM

Unit Under Test: Myron 6P Ultrameter

Asset No.: FA00596
Serial No: 6218870

Technician: Judson Goode

Initials:

TEST	Specification	Result
Standard Calibration	Pass/Fail	Pass

TEST STANDARDS USED:

DESCRIPTION	LOT NO./EXPIRATION DATE	QUANTITY
7.00 mS Conductivity Standard Solution	Lot No. 1GH744 Exp. 08/22	1
pH 7.00 Standard Solution	Lot No. 0GH349 Exp. 11/22	1
pH 10.00 Standard Solution	Lot No. 0GH940 Exp. 08/2022	1
pH 4.00 Standard Solution	Lot No. 0GH202 Exp. 08/2022	1
ORP Standard Solution	Lot No.19G100228 exp. 07/09/24	1

TEST EQUIPMENT USED:

DESCRIPTION	ASSET NO.	SERIAL NO.	DATE OF LAST CAL	DATE CAL DUE

Test Equipment and standards are traceable to National standards.

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR#_____

T050691

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Akzo Nobel	
Project Number: 1398.003.001	Report To Brian McGrath
Company / Address Barton & Loguidice, PC 11 Centre Park Suite 203 Rochester NY, 14614	
Phone # 585-325-7190	FAX #
Sampler Signature	Sampler Printed Name Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-11		09/09/21	12:23	Liquid	8	X	X	X	X	X	X	X	
MW-11B		11/9/21	12:40	Liquid	8	X	X	X	X	X	X	X	
Trip Blank				Liquid	3			X					
14.				Liquid									
15.				Liquid									
16.				Liquid									
17.				Liquid									
18.				Liquid									
19.				Liquid									
20.				Liquid									

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Cilibration Summaries

___ IV. Data Validation Report with Raw Data

EData ____Yes ____No

Invoice Information

P.O.#_____

Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name Brian J. McGrath	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm B+L	Firm ASL	Firm	Firm	Firm	Firm
Date/Time 09/09/21 16:23	Date/Time 11/09/21 16:	Date/Time	Date/Time	Date/Time	Date/Time

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

T050691

ALS Environmental
1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

Project Name: Nouryon	
Project Number: 1398.003.001	Report To Brian McGrath
Company / Address Barton & Loguidice, PC 11 Centre Park Suite 203 Rochester NY, 14614	
Phone # 585-325-7190	FAX #
Sampler Signature:	Sampler Printed Name: Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-1		11/9/21	09:40	Liquid	8	X	X	X	X	X	X	X	
Dupe-X		11/9/21	—	Liquid	8	X	X	X	X	X	X	X	
MW-2			14:25	Liquid	8	X	X	X	X	X	X	X	
MW-3			10:44	Liquid	8	X	X	X	X	X	X	X	
MW-4			11:37	Liquid	8	X	X	X	X	X	X	X	
MW-4B			11:50	Liquid	8	X	X	X	X	X	X	X	
MW-5			10:16	Liquid	8	X	X	X	X	X	X	X	
MW-9			13:12	Liquid	8	X	X	X	X	X	X	X	
MW-9B			13:25	Liquid	8	X	X	X	X	X	X	X	
MW-10 (MS/MSD)			14:00	Liquid	16	X	X	X	X	X	X	X	MS/MSD

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Cilibration Summaries

___ IV. Data Validation Report with Raw Data

EData _____Yes _____No

Invoice Information

P.O.# _____

Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Brian J. McGrath	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: B+L	Firm	Firm	Firm	Firm	Firm
Date/Time: 11/9/21 16:23	Date/Time: 11/9/21 16:23	Date/Time	Date/Time	Date/Time	Date/Time

Appendix B

June 17, 2021 Service Request No:R2105683

Mr. Brian McGrath
Barton & Loguidice, PC
11 Centre Park
Suite 203
Rochester, NY 14614

Laboratory Results for: Nouryon

Dear Mr.McGrath,

Enclosed are the results of the sample(s) submitted to our laboratory June 08, 2021
For your reference, these analyses have been assigned our service request number **R2105683.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Barton & Loguidice, DPC
Project: Nouryon
Sample Matrix: Water

Service Request: R2105683
Date Received: 06/08/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Sixteen water samples were received for analysis at ALS Environmental on 06/08/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 06/15/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/15/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 06/15/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Approved by _____ Date 06/17/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1			Lab ID: R2105683-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	82.2			2.0	mg/L	300.0
Iron, Dissolved	550			100	ug/L	200.7
Manganese, Dissolved	490			10	ug/L	200.7
Methane, Dissolved	3.0			1.1	ug/L	RSK 175

CLIENT ID: Dupe-1			Lab ID: R2105683-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	82.1			2.0	mg/L	300.0
Iron, Dissolved	550			100	ug/L	200.7
Manganese, Dissolved	481			10	ug/L	200.7
Methane, Dissolved	3.1			1.1	ug/L	RSK 175

CLIENT ID: MW-2			Lab ID: R2105683-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	3.2			1.0	mg/L	300.0
Sulfate	87.5			2.0	mg/L	300.0
Iron, Dissolved	150			100	ug/L	200.7
Manganese, Dissolved	39			10	ug/L	200.7
Methane, Dissolved	15			1.1	ug/L	RSK 175

CLIENT ID: MW-3			Lab ID: R2105683-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	98.3			2.0	mg/L	300.0
Manganese, Dissolved	11			10	ug/L	200.7

CLIENT ID: MW-4			Lab ID: R2105683-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	28.2			2.0	mg/L	300.0

CLIENT ID: MW-4B			Lab ID: R2105683-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	1220			40	mg/L	300.0
Manganese, Dissolved	124			10	ug/L	200.7
Methane, Dissolved	7.4			1.1	ug/L	RSK 175

CLIENT ID: MW-5			Lab ID: R2105683-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	64.5			2.0	mg/L	300.0
Acetone	14		5.0	5.0	ug/L	8260C

CLIENT ID: MW-9			Lab ID: R2105683-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	5.1			1.0	mg/L	300.0
Sulfate	53.5			2.0	mg/L	300.0
1,1,1-Trichloroethane (TCA)	1.8		0.20	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-9			Lab ID: R2105683-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Tetrachloroethene (PCE)	0.53	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	0.21	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-9B			Lab ID: R2105683-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	645			40	mg/L	300.0
Manganese, Dissolved	28			10	ug/L	200.7
Methane, Dissolved	6.1			1.1	ug/L	RSK 175

CLIENT ID: MW-10			Lab ID: R2105683-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	5.0			1.0	mg/L	300.0
Sulfate	52.7			2.0	mg/L	300.0
1,1,1-Trichloroethane (TCA)	0.47	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-11			Lab ID: R2105683-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	67.6			2.0	mg/L	300.0
Manganese, Dissolved	454			10	ug/L	200.7

CLIENT ID: MW-11B			Lab ID: R2105683-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	71.4			2.0	mg/L	300.0
Methane, Dissolved	4.4			1.1	ug/L	RSK 175

CLIENT ID: MW-1B			Lab ID: R2105683-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	1390			40	mg/L	300.0
Iron, Dissolved	1870			100	ug/L	200.7
Manganese, Dissolved	844			10	ug/L	200.7
2-Butanone (MEK)	1.2	J	0.78	5.0	ug/L	8260C
Methane, Dissolved	3.0			1.1	ug/L	RSK 175

CLIENT ID: MW-3B			Lab ID: R2105683-014			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	45.2			2.0	mg/L	300.0
Manganese, Dissolved	73			10	ug/L	200.7
Methane, Dissolved	21			1.1	ug/L	RSK 175

CLIENT ID: MW-10B			Lab ID: R2105683-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	83.0			2.0	mg/L	300.0
Manganese, Dissolved	23			10	ug/L	200.7
1,1-Dichloroethane (1,1-DCA)	1.1		0.20	1.0	ug/L	8260C
Methane, Dissolved	2.8			1.1	ug/L	RSK 175

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-10B			Lab ID: R2105683-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Barton & Loguidice, DPC **Service Request:**R2105683
Project: Nouryon/1398.003.001

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2105683-001	MW-1	6/8/2021	1032
R2105683-002	Dupe-1	6/8/2021	
R2105683-003	MW-2	6/8/2021	1506
R2105683-004	MW-3	6/8/2021	1203
R2105683-005	MW-4	6/8/2021	1239
R2105683-006	MW-4B	6/8/2021	1251
R2105683-007	MW-5	6/8/2021	1106
R2105683-008	MW-9	6/8/2021	1412
R2105683-009	MW-9B	6/8/2021	1418
R2105683-010	MW-10	6/8/2021	1434
R2105683-011	MW-11	6/8/2021	1330
R2105683-012	MW-11B	6/8/2021	1339
R2105683-013	MW-1B	6/8/2021	1057
R2105683-014	MW-3B	6/8/2021	1208
R2105683-015	MW-10B	6/8/2021	1438
R2105683-016	Trip Blank	6/8/2021	

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T050691

ALS Environmental

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003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Nouryon
Project Number: 1398.003.001
Report To: Brian McGrath
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614
Phone #: 585-325-7190
FAX #:
Sampler Signature:
Sampler Printed Name: Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-1		6/8/21	10:32	Liquid	8	X	X	X	X	X	X	X	
Dupe-1		6/8/21	—	Liquid	8	X	X	X	X	X	X	X	
MW-2		6/8/21	15:06	Liquid	8	X	X	X	X	X	X	X	
MW-3		6/8/21	12:03	Liquid	8	X	X	X	X	X	X	X	
MW-4		6/8/21	12:39	Liquid	8	X	X	X	X	X	X	X	
MW-4B		6/8/21	12:51	Liquid	8	X	X	X	X	X	X	X	
MW-5		6/8/21	11:06	Liquid	8	X	X	X	X	X	X	X	
MW-9		6/8/21	14:12	Liquid	8	X	X	X	X	X	X	X	
MW-9B MS/MSD		6/8/21	14:18	Liquid	16	X	X	X	X	X	X	X	
MW-10		6/8/21	14:34	Liquid	8	X	X	X	X	X	X	X	

Special Instructions/Comments:

Turnaround Requirements
___ RUSH (SURCHARGES APPLY)
X Standard
_____ REQUESTED FAX DATE
_____ Requested Report Date

Report Requirements
X I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
___ III. Results + QC and Calibration Summaries
___ IV. Data Validation Report with Raw Data
EData ____Yes ____No

Invoice Information
P.O.#_____
Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Brian J. McGrath	Signature:	Signature	Signature	Signature	Signature
Printed Name: B+L	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: 6/8/21 1720	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 6/8/21 1720	Date/Time	Date/Time	Date/Time	

R2105683
Barton & Loguidice, PC
Nouryon
5

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T050691

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www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Akzo Nobel	
Project Number: 1398.003.001	Report To: Brian McGrath
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614	
Phone # 585-325-7190	FAX #
Sampler Signature	Sampler Printed Name: Brian T. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-11		6/8/21	13:30	Liquid	8	X	X	X	X	X	X	X	
MW-11B		6/8/21	13:39	Liquid	8	X	X	X	X	X	X	X	
MW-1B		6/8/21	10:52	Liquid	8	X	X	X	X	X	X	X	
MW-3B		6/8/21	12:08	Liquid	8	X	X	X	X	X	X	X	
MW-10B		6/8/21	14:38	Liquid	8	X	X	X	X	X	X	X	
Trip Blank				Liquid	3			X					
17.				Liquid									
18.				Liquid									
19.				Liquid									
20.				Liquid									

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

X I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Cilibration Summaries

___ IV. Data Validation Report with Raw Data

EData ____Yes ____No

Invoice Information

P.O.# _____

Bill To: B&L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Brian T. McGrath	Signature	Signature	Signature	Signature	Signature
Printed Name: B&L	Printed Name: Daniel Wald	Printed Name	Printed Name	Printed Name	Printed Name
Firm: 6/8/21 1720	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 6/8/21/1720	Date/Time	Date/Time	Date/Time	Date/Time

R2105683 5
Barton & Loguidice, PC
Nouryon

Cooler Receipt and Preservation Check Form

R2105683 5
Barton & Loguidice, PC
Nouryon

Project/Client BTL Folder Number

Cooler received on 6/18/21 by: dlw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y N	5a	**Perchlorate** samples have required headspace?	Y N NA
2	**Custody papers** properly completed (ink, signed)?	Y N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N NA
3	Did all bottles arrive in good **condition** (unbroken)?	Y N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: ~~Wet Ice~~ **Dry Ice Gel packs** present?	Y N	7	Soil VOA received as: Bulk Encore 5035set	NA

3. Temperature Readings Date: 6/18/21 Time: 1730 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	4.9	5.7C					
Within 0-6°C?	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R007 by dlw on 6/18/21 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 6/19/21 Time: 7005 by: dlw

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	725419	HNO_3	✓		1120092					
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 21-03-03, 2596

Explain all Discrepancies/ Other Comments:
* 1 Vial: MW-3B, Trip Blank

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: dlw
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Barton & Loguidice, DPC **Service Request:** R2105683
Project: Nouryon/1398.003.001

Sample Name: MW-1 **Date Collected:** 06/8/21
Lab Code: R2105683-001 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: Dupe-1 **Date Collected:** 06/8/21
Lab Code: R2105683-002 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-2 **Date Collected:** 06/8/21
Lab Code: R2105683-003 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-3 **Date Collected:** 06/8/21
Lab Code: R2105683-004 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN

Client: Barton & Loguidice, DPC **Service Request:** R2105683
Project: Nouryon/1398.003.001

Sample Name: MW-3 **Date Collected:** 06/8/21
Lab Code: R2105683-004 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-4 **Date Collected:** 06/8/21
Lab Code: R2105683-005 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-4B **Date Collected:** 06/8/21
Lab Code: R2105683-006 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-5 **Date Collected:** 06/8/21
Lab Code: R2105683-007 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG

Client: Barton & Loguidice, DPC **Service Request:** R2105683
Project: Nouryon/1398.003.001

Sample Name: MW-5 **Date Collected:** 06/8/21
Lab Code: R2105683-007 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-9 **Date Collected:** 06/8/21
Lab Code: R2105683-008 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-9B **Date Collected:** 06/8/21
Lab Code: R2105683-009 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-10 **Date Collected:** 06/8/21
Lab Code: R2105683-010 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST

Client: Barton & Loguidice, DPC **Service Request:** R2105683
Project: Nouryon/1398.003.001

Sample Name: MW-10 **Date Collected:** 06/8/21
Lab Code: R2105683-010 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Sample Name: MW-11 **Date Collected:** 06/8/21
Lab Code: R2105683-011 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-11B **Date Collected:** 06/8/21
Lab Code: R2105683-012 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-1B **Date Collected:** 06/8/21
Lab Code: R2105683-013 **Date Received:** 06/8/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001		

Sample Name:	MW-3B	**Date Collected:**	06/8/21
Lab Code:	R2105683-014	**Date Received:**	06/8/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name:	MW-10B	**Date Collected:**	06/8/21
Lab Code:	R2105683-015	**Date Received:**	06/8/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	KMCLAEN	NMANSEN
300.0		KWONG
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name:	Trip Blank	**Date Collected:**	06/8/21
Lab Code:	R2105683-016	**Date Received:**	06/8/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:32
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2105683-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 00:36	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 00:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 00:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 00:36	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 00:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 00:36	
Acetone	5.0 U	5.0	5.0	1	06/15/21 00:36	
Benzene	1.0 U	1.0	0.20	1	06/15/21 00:36	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 00:36	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 00:36	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 00:36	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 00:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 00:36	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 00:36	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 00:36	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 00:36	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 00:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 00:36	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 00:36	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 00:36	
Styrene	1.0 U	1.0	0.20	1	06/15/21 00:36	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 00:36	
Toluene	1.0 U	1.0	0.20	1	06/15/21 00:36	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 00:36	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 00:36	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 00:36	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 00:36	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 00:36	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 00:36	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:32
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2105683-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/15/21 00:36	
Dibromofluoromethane	95	80 - 116	06/15/21 00:36	
Toluene-d8	101	87 - 121	06/15/21 00:36	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Dupe-1	**Units:**	ug/L
Lab Code:	R2105683-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 00:57	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 00:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 00:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 00:57	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 00:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 00:57	
Acetone	5.0 U	5.0	5.0	1	06/15/21 00:57	
Benzene	1.0 U	1.0	0.20	1	06/15/21 00:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 00:57	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 00:57	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 00:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 00:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 00:57	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 00:57	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 00:57	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 00:57	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 00:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 00:57	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 00:57	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 00:57	
Styrene	1.0 U	1.0	0.20	1	06/15/21 00:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 00:57	
Toluene	1.0 U	1.0	0.20	1	06/15/21 00:57	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 00:57	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 00:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 00:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 00:57	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 00:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 00:57	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Dupe-1	**Units:**	ug/L
Lab Code:	R2105683-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/15/21 00:57	
Dibromofluoromethane	95	80 - 116	06/15/21 00:57	
Toluene-d8	99	87 - 121	06/15/21 00:57	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 15:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2105683-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 01:19	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 01:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 01:19	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 01:19	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 01:19	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 01:19	
Acetone	5.0 U	5.0	5.0	1	06/15/21 01:19	
Benzene	1.0 U	1.0	0.20	1	06/15/21 01:19	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 01:19	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 01:19	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 01:19	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 01:19	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 01:19	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 01:19	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 01:19	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 01:19	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 01:19	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 01:19	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 01:19	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 01:19	
Styrene	1.0 U	1.0	0.20	1	06/15/21 01:19	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 01:19	
Toluene	1.0 U	1.0	0.20	1	06/15/21 01:19	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 01:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 01:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 01:19	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 01:19	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 01:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 01:19	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 15:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2105683-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 01:19	
Dibromofluoromethane	96	80 - 116	06/15/21 01:19	
Toluene-d8	101	87 - 121	06/15/21 01:19	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:03
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2105683-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 01:41	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 01:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 01:41	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 01:41	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 01:41	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 01:41	
Acetone	5.0 U	5.0	5.0	1	06/15/21 01:41	
Benzene	1.0 U	1.0	0.20	1	06/15/21 01:41	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 01:41	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 01:41	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 01:41	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 01:41	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 01:41	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 01:41	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 01:41	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 01:41	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 01:41	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 01:41	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 01:41	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 01:41	
Styrene	1.0 U	1.0	0.20	1	06/15/21 01:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 01:41	
Toluene	1.0 U	1.0	0.20	1	06/15/21 01:41	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 01:41	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 01:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 01:41	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 01:41	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 01:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 01:41	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:03
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2105683-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/15/21 01:41	
Dibromofluoromethane	97	80 - 116	06/15/21 01:41	
Toluene-d8	101	87 - 121	06/15/21 01:41	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2105683-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:03	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 02:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 02:03	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 02:03	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 02:03	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 02:03	
Acetone	5.0 U	5.0	5.0	1	06/15/21 02:03	
Benzene	1.0 U	1.0	0.20	1	06/15/21 02:03	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 02:03	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 02:03	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 02:03	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 02:03	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 02:03	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 02:03	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 02:03	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 02:03	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 02:03	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 02:03	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 02:03	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 02:03	
Styrene	1.0 U	1.0	0.20	1	06/15/21 02:03	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 02:03	
Toluene	1.0 U	1.0	0.20	1	06/15/21 02:03	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 02:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 02:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 02:03	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 02:03	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 02:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 02:03	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2105683-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 02:03	
Dibromofluoromethane	94	80 - 116	06/15/21 02:03	
Toluene-d8	99	87 - 121	06/15/21 02:03	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:51
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2105683-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:25	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 02:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 02:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 02:25	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 02:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 02:25	
Acetone	5.0 U	5.0	5.0	1	06/15/21 02:25	
Benzene	1.0 U	1.0	0.20	1	06/15/21 02:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 02:25	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 02:25	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 02:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 02:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 02:25	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 02:25	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 02:25	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 02:25	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 02:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 02:25	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 02:25	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 02:25	
Styrene	1.0 U	1.0	0.20	1	06/15/21 02:25	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 02:25	
Toluene	1.0 U	1.0	0.20	1	06/15/21 02:25	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 02:25	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 02:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 02:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 02:25	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 02:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 02:25	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:51
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2105683-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/15/21 02:25	
Dibromofluoromethane	97	80 - 116	06/15/21 02:25	
Toluene-d8	100	87 - 121	06/15/21 02:25	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 11:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2105683-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 02:47	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 02:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 02:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 02:47	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 02:47	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 02:47	
Acetone	**14**	5.0	5.0	1	06/15/21 02:47	
Benzene	1.0 U	1.0	0.20	1	06/15/21 02:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 02:47	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 02:47	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 02:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 02:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 02:47	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 02:47	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 02:47	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 02:47	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 02:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 02:47	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 02:47	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 02:47	
Styrene	1.0 U	1.0	0.20	1	06/15/21 02:47	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 02:47	
Toluene	1.0 U	1.0	0.20	1	06/15/21 02:47	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 02:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 02:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 02:47	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 02:47	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 02:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 02:47	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 11:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2105683-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	06/15/21 02:47	
Dibromofluoromethane	97	80 - 116	06/15/21 02:47	
Toluene-d8	103	87 - 121	06/15/21 02:47	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:12
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2105683-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**1.8**	1.0	0.20	1	06/15/21 03:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 03:08	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 03:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 03:08	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 03:08	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 03:08	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 03:08	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 03:08	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 03:08	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 03:08	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 03:08	
Acetone	5.0 U	5.0	5.0	1	06/15/21 03:08	
Benzene	1.0 U	1.0	0.20	1	06/15/21 03:08	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 03:08	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 03:08	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 03:08	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 03:08	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 03:08	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 03:08	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 03:08	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 03:08	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 03:08	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 03:08	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 03:08	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 03:08	
Styrene	1.0 U	1.0	0.20	1	06/15/21 03:08	
Tetrachloroethene (PCE)	**0.53 J**	1.0	0.21	1	06/15/21 03:08	
Toluene	1.0 U	1.0	0.20	1	06/15/21 03:08	
Trichloroethene (TCE)	**0.21 J**	1.0	0.20	1	06/15/21 03:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 03:08	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 03:08	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 03:08	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 03:08	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 03:08	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:12
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2105683-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 03:08	
Dibromofluoromethane	95	80 - 116	06/15/21 03:08	
Toluene-d8	99	87 - 121	06/15/21 03:08	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:18
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2105683-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 03:30	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 03:30	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 03:30	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 03:30	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 03:30	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 03:30	
Acetone	5.0 U	5.0	5.0	1	06/15/21 03:30	
Benzene	1.0 U	1.0	0.20	1	06/15/21 03:30	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 03:30	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 03:30	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 03:30	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 03:30	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 03:30	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 03:30	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 03:30	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 03:30	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 03:30	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 03:30	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 03:30	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 03:30	
Styrene	1.0 U	1.0	0.20	1	06/15/21 03:30	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 03:30	
Toluene	1.0 U	1.0	0.20	1	06/15/21 03:30	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 03:30	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 03:30	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 03:30	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 03:30	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 03:30	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 03:30	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:18
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2105683-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 03:30	
Dibromofluoromethane	94	80 - 116	06/15/21 03:30	
Toluene-d8	100	87 - 121	06/15/21 03:30	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:34
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2105683-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**0.47**	**J**	1.0	0.20	1	06/15/21 03:52	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.20	1	06/15/21 03:52	
1,1,2-Trichloroethane	1.0	U	1.0	0.20	1	06/15/21 03:52	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	06/15/21 03:52	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.20	1	06/15/21 03:52	
1,2-Dichloroethane	1.0	U	1.0	0.20	1	06/15/21 03:52	
1,2-Dichloroethene, Total	2.0	U	2.0	0.35	1	06/15/21 03:52	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	06/15/21 03:52	
2-Butanone (MEK)	5.0	U	5.0	0.78	1	06/15/21 03:52	
2-Hexanone	5.0	U	5.0	0.20	1	06/15/21 03:52	
4-Methyl-2-pentanone	5.0	U	5.0	0.20	1	06/15/21 03:52	
Acetone	5.0	U	5.0	5.0	1	06/15/21 03:52	
Benzene	1.0	U	1.0	0.20	1	06/15/21 03:52	
Bromodichloromethane	1.0	U	1.0	0.20	1	06/15/21 03:52	
Bromoform	1.0	U	1.0	0.25	1	06/15/21 03:52	
Bromomethane	1.0	U	1.0	0.70	1	06/15/21 03:52	
Carbon Disulfide	1.0	U	1.0	0.42	1	06/15/21 03:52	
Carbon Tetrachloride	1.0	U	1.0	0.34	1	06/15/21 03:52	
Chlorobenzene	1.0	U	1.0	0.20	1	06/15/21 03:52	
Chloroethane	1.0	U	1.0	0.23	1	06/15/21 03:52	
Chloroform	1.0	U	1.0	0.24	1	06/15/21 03:52	
Chloromethane (Methyl Chloride)	1.0	U	1.0	0.28	1	06/15/21 03:52	
Dibromochloromethane	1.0	U	1.0	0.20	1	06/15/21 03:52	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.65	1	06/15/21 03:52	
Ethylbenzene	1.0	U	1.0	0.20	1	06/15/21 03:52	
Styrene	1.0	U	1.0	0.20	1	06/15/21 03:52	
Tetrachloroethene (PCE)	1.0	U	1.0	0.21	1	06/15/21 03:52	
Toluene	1.0	U	1.0	0.20	1	06/15/21 03:52	
Trichloroethene (TCE)	1.0	U	1.0	0.20	1	06/15/21 03:52	
Vinyl Chloride	1.0	U	1.0	0.20	1	06/15/21 03:52	
cis-1,3-Dichloropropene	1.0	U	1.0	0.20	1	06/15/21 03:52	
m,p-Xylenes	2.0	U	2.0	0.20	1	06/15/21 03:52	
o-Xylene	1.0	U	1.0	0.20	1	06/15/21 03:52	
trans-1,3-Dichloropropene	1.0	U	1.0	0.23	1	06/15/21 03:52	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:34
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2105683-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 03:52	
Dibromofluoromethane	96	80 - 116	06/15/21 03:52	
Toluene-d8	100	87 - 121	06/15/21 03:52	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:30
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2105683-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:14	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 04:14	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 04:14	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 04:14	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 04:14	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 04:14	
Acetone	5.0 U	5.0	5.0	1	06/15/21 04:14	
Benzene	1.0 U	1.0	0.20	1	06/15/21 04:14	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 04:14	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 04:14	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 04:14	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 04:14	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 04:14	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 04:14	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 04:14	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 04:14	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 04:14	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 04:14	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 04:14	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 04:14	
Styrene	1.0 U	1.0	0.20	1	06/15/21 04:14	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 04:14	
Toluene	1.0 U	1.0	0.20	1	06/15/21 04:14	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 04:14	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 04:14	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 04:14	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 04:14	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 04:14	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 04:14	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:30
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2105683-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/15/21 04:14	
Dibromofluoromethane	95	80 - 116	06/15/21 04:14	
Toluene-d8	102	87 - 121	06/15/21 04:14	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2105683-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:36	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 04:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 04:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 04:36	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 04:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 04:36	
Acetone	5.0 U	5.0	5.0	1	06/15/21 04:36	
Benzene	1.0 U	1.0	0.20	1	06/15/21 04:36	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 04:36	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 04:36	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 04:36	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 04:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 04:36	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 04:36	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 04:36	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 04:36	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 04:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 04:36	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 04:36	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 04:36	
Styrene	1.0 U	1.0	0.20	1	06/15/21 04:36	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 04:36	
Toluene	1.0 U	1.0	0.20	1	06/15/21 04:36	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 04:36	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 04:36	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 04:36	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 04:36	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 04:36	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 04:36	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2105683-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/15/21 04:36	
Dibromofluoromethane	98	80 - 116	06/15/21 04:36	
Toluene-d8	101	87 - 121	06/15/21 04:36	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:57
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	R2105683-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 04:58	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 04:58	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 04:58	
2-Butanone (MEK)	**1.2 J**	5.0	0.78	1	06/15/21 04:58	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 04:58	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 04:58	
Acetone	5.0 U	5.0	5.0	1	06/15/21 04:58	
Benzene	1.0 U	1.0	0.20	1	06/15/21 04:58	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 04:58	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 04:58	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 04:58	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 04:58	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 04:58	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 04:58	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 04:58	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 04:58	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 04:58	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 04:58	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 04:58	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 04:58	
Styrene	1.0 U	1.0	0.20	1	06/15/21 04:58	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 04:58	
Toluene	1.0 U	1.0	0.20	1	06/15/21 04:58	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 04:58	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 04:58	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 04:58	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 04:58	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 04:58	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 04:58	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:57
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	R2105683-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 04:58	
Dibromofluoromethane	95	80 - 116	06/15/21 04:58	
Toluene-d8	99	87 - 121	06/15/21 04:58	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:08
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	R2105683-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 05:20	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 05:20	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 05:20	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 05:20	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 05:20	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 05:20	
Acetone	5.0 U	5.0	5.0	1	06/15/21 05:20	
Benzene	1.0 U	1.0	0.20	1	06/15/21 05:20	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 05:20	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 05:20	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 05:20	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 05:20	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 05:20	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 05:20	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 05:20	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 05:20	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 05:20	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 05:20	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 05:20	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 05:20	
Styrene	1.0 U	1.0	0.20	1	06/15/21 05:20	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 05:20	
Toluene	1.0 U	1.0	0.20	1	06/15/21 05:20	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 05:20	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 05:20	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 05:20	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 05:20	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 05:20	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 05:20	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:08
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	R2105683-014	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/15/21 05:20	
Dibromofluoromethane	99	80 - 116	06/15/21 05:20	
Toluene-d8	99	87 - 121	06/15/21 05:20	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:38
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	R2105683-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/15/21 05:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/15/21 05:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/15/21 05:42	
1,1-Dichloroethane (1,1-DCA)	**1.1**	1.0	0.20	1	06/15/21 05:42	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/15/21 05:42	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/15/21 05:42	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/15/21 05:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/15/21 05:42	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/15/21 05:42	
2-Hexanone	5.0 U	5.0	0.20	1	06/15/21 05:42	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/15/21 05:42	
Acetone	5.0 U	5.0	5.0	1	06/15/21 05:42	
Benzene	1.0 U	1.0	0.20	1	06/15/21 05:42	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/15/21 05:42	
Bromoform	1.0 U	1.0	0.25	1	06/15/21 05:42	
Bromomethane	1.0 U	1.0	0.70	1	06/15/21 05:42	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/15/21 05:42	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/15/21 05:42	
Chlorobenzene	1.0 U	1.0	0.20	1	06/15/21 05:42	
Chloroethane	1.0 U	1.0	0.23	1	06/15/21 05:42	
Chloroform	1.0 U	1.0	0.24	1	06/15/21 05:42	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/15/21 05:42	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/15/21 05:42	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/15/21 05:42	
Ethylbenzene	1.0 U	1.0	0.20	1	06/15/21 05:42	
Styrene	1.0 U	1.0	0.20	1	06/15/21 05:42	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/15/21 05:42	
Toluene	1.0 U	1.0	0.20	1	06/15/21 05:42	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/15/21 05:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/15/21 05:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/15/21 05:42	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/15/21 05:42	
o-Xylene	1.0 U	1.0	0.20	1	06/15/21 05:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/15/21 05:42	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:38
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	R2105683-015	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/15/21 05:42	
Dibromofluoromethane	95	80 - 116	06/15/21 05:42	
Toluene-d8	100	87 - 121	06/15/21 05:42	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2105683-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	06/15/21 00:14	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	06/15/21 00:14	
1,1,2-Trichloroethane	1.0 U	1.0	1	06/15/21 00:14	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	06/15/21 00:14	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	06/15/21 00:14	
1,2-Dichloroethane	1.0 U	1.0	1	06/15/21 00:14	
1,2-Dichloroethene, Total	2.0 U	2.0	1	06/15/21 00:14	
1,2-Dichloropropane	1.0 U	1.0	1	06/15/21 00:14	
2-Butanone (MEK)	5.0 U	5.0	1	06/15/21 00:14	
2-Hexanone	5.0 U	5.0	1	06/15/21 00:14	
4-Methyl-2-pentanone	5.0 U	5.0	1	06/15/21 00:14	
Acetone	5.0 U	5.0	1	06/15/21 00:14	
Benzene	1.0 U	1.0	1	06/15/21 00:14	
Bromodichloromethane	1.0 U	1.0	1	06/15/21 00:14	
Bromoform	1.0 U	1.0	1	06/15/21 00:14	
Bromomethane	1.0 U	1.0	1	06/15/21 00:14	
Carbon Disulfide	1.0 U	1.0	1	06/15/21 00:14	
Carbon Tetrachloride	1.0 U	1.0	1	06/15/21 00:14	
Chlorobenzene	1.0 U	1.0	1	06/15/21 00:14	
Chloroethane	1.0 U	1.0	1	06/15/21 00:14	
Chloroform	1.0 U	1.0	1	06/15/21 00:14	
Chloromethane (Methyl Chloride)	1.0 U	1.0	1	06/15/21 00:14	
Dibromochloromethane	1.0 U	1.0	1	06/15/21 00:14	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	1	06/15/21 00:14	
Ethylbenzene	1.0 U	1.0	1	06/15/21 00:14	
Styrene	1.0 U	1.0	1	06/15/21 00:14	
Tetrachloroethene (PCE)	1.0 U	1.0	1	06/15/21 00:14	
Toluene	1.0 U	1.0	1	06/15/21 00:14	
Trichloroethene (TCE)	1.0 U	1.0	1	06/15/21 00:14	
Vinyl Chloride	1.0 U	1.0	1	06/15/21 00:14	
cis-1,3-Dichloropropene	1.0 U	1.0	1	06/15/21 00:14	
m,p-Xylenes	2.0 U	2.0	1	06/15/21 00:14	
o-Xylene	1.0 U	1.0	1	06/15/21 00:14	
trans-1,3-Dichloropropene	1.0 U	1.0	1	06/15/21 00:14	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2105683-016	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/15/21 00:14	
Dibromofluoromethane	98	80 - 116	06/15/21 00:14	
Toluene-d8	101	87 - 121	06/15/21 00:14	

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:32
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2105683-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**3.0**	1.1	1	06/10/21 13:08	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Dupe-1	**Units:**	ug/L
Lab Code:	R2105683-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**3.1**	1.1	1	06/10/21 13:17	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 15:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2105683-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**15**	1.1	1	06/10/21 13:40	

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Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:03
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2105683-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/10/21 13:51	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2105683-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/10/21 14:08	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:51
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2105683-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**7.4**	1.1	1	06/10/21 14:21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 11:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2105683-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/10/21 14:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:12
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2105683-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/11/21 13:12	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:18
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2105683-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**6.1**	1.1	1	06/11/21 13:22	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:34
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2105683-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/11/21 13:55	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:30
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2105683-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/11/21 14:05	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2105683-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**4.4**	1.1	1	06/11/21 14:16	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:57
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1B	**Units:**	ug/L
Lab Code:	R2105683-013	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**3.0**	1.1	1	06/11/21 14:25	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:08
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3B	**Units:**	ug/L
Lab Code:	R2105683-014	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**21**	1.1	1	06/11/21 14:37	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:38
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10B	**Units:**	ug/L
Lab Code:	R2105683-015	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**2.8**	1.1	1	06/11/21 14:46	

Metals

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:32
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1	**Basis:**	NA
Lab Code:	R2105683-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	**550**	ug/L	100	1	06/11/21 13:29	06/10/21	
Manganese, Dissolved	200.7	**490**	ug/L	10	1	06/11/21 13:29	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Dupe-1	**Basis:**	NA
Lab Code:	R2105683-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	**550**	ug/L	100	1	06/11/21 13:32	06/10/21	
Manganese, Dissolved	200.7	**481**	ug/L	10	1	06/11/21 13:32	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 15:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-2	**Basis:**	NA
Lab Code:	R2105683-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	**150**	ug/L	100	1	06/11/21 13:41	06/10/21	
Manganese, Dissolved	200.7	**39**	ug/L	10	1	06/11/21 13:41	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:03
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3	**Basis:**	NA
Lab Code:	R2105683-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 13:44	06/10/21	
Manganese, Dissolved	200.7	**11**	ug/L	10	1	06/11/21 13:44	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4	**Basis:**	NA
Lab Code:	R2105683-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 13:47	06/10/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	06/11/21 13:47	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:51
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4B	**Basis:**	NA
Lab Code:	R2105683-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 13:51	06/10/21	
Manganese, Dissolved	200.7	**124**	ug/L	10	1	06/11/21 13:51	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 11:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-5	**Basis:**	NA
Lab Code:	R2105683-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 13:54	06/10/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	06/11/21 13:54	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:12
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9	**Basis:**	NA
Lab Code:	R2105683-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 13:57	06/10/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	06/11/21 13:57	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:18
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9B	**Basis:**	NA
Lab Code:	R2105683-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:00	06/10/21	
Manganese, Dissolved	200.7	**28**	ug/L	10	1	06/11/21 14:00	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:34
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10	**Basis:**	NA
Lab Code:	R2105683-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:21	06/10/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	06/11/21 14:21	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:30
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11	**Basis:**	NA
Lab Code:	R2105683-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:24	06/10/21	
Manganese, Dissolved	200.7	**454**	ug/L	10	1	06/11/21 14:24	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11B	**Basis:**	NA
Lab Code:	R2105683-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:28	06/10/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	06/11/21 14:28	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:57
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1B	**Basis:**	NA
Lab Code:	R2105683-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	**1870**	ug/L	100	1	06/11/21 14:31	06/10/21	
Manganese, Dissolved	200.7	**844**	ug/L	10	1	06/11/21 14:31	06/10/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:08
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3B	**Basis:**	NA
Lab Code:	R2105683-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:34	06/10/21	
Manganese, Dissolved	200.7	**73**	ug/L	10	1	06/11/21 14:34	06/10/21	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:38
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10B	**Basis:**	NA
Lab Code:	R2105683-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	06/11/21 14:37	06/10/21	
Manganese, Dissolved	200.7	**23**	ug/L	10	1	06/11/21 14:37	06/10/21	

General Chemistry

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Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:32
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1	**Basis:**	NA
Lab Code:	R2105683-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 13:40	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 13:40	
Sulfate	300.0	**82.2**		mg/L	2.0	10	06/09/21 13:40	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	Dupe-1	**Basis:**	NA
Lab Code:	R2105683-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 13:47	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 13:47	
Sulfate	300.0	**82.1**		mg/L	2.0	10	06/09/21 13:47	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 15:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-2	**Basis:**	NA
Lab Code:	R2105683-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	**3.2**	mg/L	1.0	10	06/09/21 13:55	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 13:55	
Sulfate	300.0	**87.5**	mg/L	2.0	10	06/09/21 13:55	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:03
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3	**Basis:**	NA
Lab Code:	R2105683-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 14:03	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 14:03	
Sulfate	300.0	**98.3**		mg/L	2.0	10	06/09/21 14:03	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4	**Basis:**	NA
Lab Code:	R2105683-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 14:10	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 14:10	
Sulfate	300.0	**28.2**	mg/L	2.0	10	06/09/21 14:10	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:51
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-4B	**Basis:**	NA
Lab Code:	R2105683-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 14:40	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 14:40	
Sulfate	300.0	**1220**		mg/L	40	200	06/14/21 21:20	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 11:06
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-5	**Basis:**	NA
Lab Code:	R2105683-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 14:48	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 14:48	
Sulfate	300.0	**64.5**	mg/L	2.0	10	06/09/21 14:48	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:12
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9	**Basis:**	NA
Lab Code:	R2105683-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	**5.1**	mg/L	1.0	10	06/09/21 14:55	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 14:55	
Sulfate	300.0	**53.5**	mg/L	2.0	10	06/09/21 14:55	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:18
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-9B	**Basis:**	NA
Lab Code:	R2105683-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:03	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:03	
Sulfate	300.0	**645**		mg/L	40	200	06/14/21 21:28	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:34
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10	**Basis:**	NA
Lab Code:	R2105683-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	**5.0**	mg/L	1.0	10	06/09/21 15:25	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	06/09/21 15:25	
Sulfate	300.0	**52.7**	mg/L	2.0	10	06/09/21 15:25	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:30
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11	**Basis:**	NA
Lab Code:	R2105683-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:33	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:33	
Sulfate	300.0	**67.6**		mg/L	2.0	10	06/09/21 15:33	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 13:39
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-11B	**Basis:**	NA
Lab Code:	R2105683-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:40	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 15:40	
Sulfate	300.0	**71.4**		mg/L	2.0	10	06/09/21 15:40	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 10:57
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-1B	**Basis:**	NA
Lab Code:	R2105683-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:03	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:03	
Sulfate	300.0	**1390**		mg/L	40	200	06/14/21 21:50	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 12:08
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-3B	**Basis:**	NA
Lab Code:	R2105683-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:10	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:10	
Sulfate	300.0	**45.2**		mg/L	2.0	10	06/09/21 16:10	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21 14:38
Sample Matrix:	Water	**Date Received:**	06/08/21 17:20
Sample Name:	MW-10B	**Basis:**	NA
Lab Code:	R2105683-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:18	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	06/09/21 16:18	
Sulfate	300.0	**83.0**		mg/L	2.0	10	06/09/21 16:18	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

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www.alsglobal.com

Client: Barton & Loguidice, DPC **Service Request:** R2105683
Project: Nouryon/1398.003.001
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
MW-1	R2105683-001	95	95	101
Dupe-1	R2105683-002	94	95	99
MW-2	R2105683-003	92	96	101
MW-3	R2105683-004	94	97	101
MW-4	R2105683-005	92	94	99
MW-4B	R2105683-006	93	97	100
MW-5	R2105683-007	96	97	103
MW-9	R2105683-008	92	95	99
MW-9B	R2105683-009	92	94	100
MW-10	R2105683-010	92	96	100
MW-11	R2105683-011	95	95	102
MW-11B	R2105683-012	94	98	101
MW-1B	R2105683-013	92	95	99
MW-3B	R2105683-014	92	99	99
MW-10B	R2105683-015	94	95	100
Trip Blank	R2105683-016	93	98	101
Method Blank	RQ2106754-04	95	95	99
Lab Control Sample	RQ2106754-03	94	97	101
MW-9B MS	RQ2106754-05	97	96	100
MW-9B DMS	RQ2106754-06	98	100	102

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21
		Date Analyzed:	06/15/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2105683-009	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2106754-05			RQ2106754-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0 U	44.0	50.0	88	45.8	50.0	92	74-127	4	30
1,1,2,2-Tetrachloroethane	1.0 U	38.3	50.0	77	37.1	50.0	74	72-122	3	30
1,1,2-Trichloroethane	1.0 U	42.2	50.0	84	42.2	50.0	84	82-121	<1	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	42.7	50.0	85	42.6	50.0	85	74-132	<1	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	53.1	50.0	106	55.5	50.0	111	71-118	4	30
1,2-Dichloroethane	1.0 U	44.1	50.0	88	42.6	50.0	85	68-130	4	30
1,2-Dichloropropane	1.0 U	44.0	50.0	88	43.4	50.0	87	79-124	1	30
2-Butanone (MEK)	5.0 U	30.2	50.0	60 *	31.0	50.0	62	61-137	3	30
2-Hexanone	5.0 U	32.0	50.0	64	32.5	50.0	65	56-132	1	30
4-Methyl-2-pentanone	5.0 U	33.9	50.0	68	32.8	50.0	66	60-141	3	30
Acetone	5.0 U	40.0	50.0	80	37.8	50.0	76	35-183	6	30
Benzene	1.0 U	45.9	50.0	92	44.4	50.0	89	76-129	3	30
Bromodichloromethane	1.0 U	43.9	50.0	88	44.2	50.0	88	78-133	<1	30
Bromoform	1.0 U	39.3	50.0	79	41.5	50.0	83	58-133	6	30
Bromomethane	1.0 U	60.2	50.0	120	56.7	50.0	113	10-184	6	30
Carbon Disulfide	1.0 U	43.8	50.0	88	44.2	50.0	88	59-140	<1	30
Carbon Tetrachloride	1.0 U	45.3	50.0	91	47.2	50.0	94	65-135	4	30
Chlorobenzene	1.0 U	45.4	50.0	91	45.6	50.0	91	76-125	<1	30
Chloroethane	1.0 U	49.2	50.0	98	51.1	50.0	102	48-146	4	30
Chloroform	1.0 U	39.7	50.0	79	40.6	50.0	81	75-130	2	30
Chloromethane (Methyl Chloride)	1.0 U	44.2	50.0	88	46.9	50.0	94	55-160	6	30
Dibromochloromethane	1.0 U	41.1	50.0	82	43.3	50.0	87	72-128	5	30
Dichloromethane (Methylene Chloride)	1.0 U	42.8	50.0	86	42.4	50.0	85	73-122	<1	30
Ethylbenzene	1.0 U	45.7	50.0	91	46.6	50.0	93	72-134	2	30
Styrene	1.0 U	46.0	50.0	92	46.3	50.0	93	74-136	<1	30
Tetrachloroethene (PCE)	1.0 U	46.9	50.0	94	46.8	50.0	94	72-125	<1	30
Toluene	1.0 U	46.7	50.0	93	46.4	50.0	93	79-119	<1	30
Trichloroethene (TCE)	1.0 U	46.4	50.0	93	45.3	50.0	91	74-122	2	30
Vinyl Chloride	1.0 U	46.4	50.0	93	46.4	50.0	93	74-159	<1	30
cis-1,3-Dichloropropene	1.0 U	43.0	50.0	86	43.2	50.0	86	52-134	<1	30
m,p-Xylenes	2.0 U	94.5	100	95	97.0	100	97	80-126	3	30
o-Xylene	1.0 U	45.7	50.0	91	47.7	50.0	95	79-123	4	30
trans-1,3-Dichloropropene	1.0 U	40.8	50.0	82	40.4	50.0	81	71-133	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106754-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/14/21 23:52	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	06/14/21 23:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	06/14/21 23:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/14/21 23:52	
2-Hexanone	5.0 U	5.0	0.20	1	06/14/21 23:52	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	06/14/21 23:52	
Acetone	5.0 U	5.0	5.0	1	06/14/21 23:52	
Benzene	1.0 U	1.0	0.20	1	06/14/21 23:52	
Bromodichloromethane	1.0 U	1.0	0.20	1	06/14/21 23:52	
Bromoform	1.0 U	1.0	0.25	1	06/14/21 23:52	
Bromomethane	1.0 U	1.0	0.70	1	06/14/21 23:52	
Carbon Disulfide	1.0 U	1.0	0.42	1	06/14/21 23:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/14/21 23:52	
Chlorobenzene	1.0 U	1.0	0.20	1	06/14/21 23:52	
Chloroethane	1.0 U	1.0	0.23	1	06/14/21 23:52	
Chloroform	1.0 U	1.0	0.24	1	06/14/21 23:52	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	06/14/21 23:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/14/21 23:52	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	06/14/21 23:52	
Ethylbenzene	1.0 U	1.0	0.20	1	06/14/21 23:52	
Styrene	1.0 U	1.0	0.20	1	06/14/21 23:52	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	06/14/21 23:52	
Toluene	1.0 U	1.0	0.20	1	06/14/21 23:52	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	06/14/21 23:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	06/14/21 23:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	06/14/21 23:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	06/14/21 23:52	
o-Xylene	1.0 U	1.0	0.20	1	06/14/21 23:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	06/14/21 23:52	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106754-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/14/21 23:52	
Dibromofluoromethane	95	80 - 116	06/14/21 23:52	
Toluene-d8	99	87 - 121	06/14/21 23:52	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/14/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106754-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.4	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260C	18.5	20.0	92	78-126
1,1,2-Trichloroethane	8260C	18.3	20.0	91	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	18.7	20.0	94	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.9	20.0	119 *	71-118
1,2-Dichloroethane	8260C	19.7	20.0	98	71-127
1,2-Dichloropropane	8260C	19.6	20.0	98	80-119
2-Butanone (MEK)	8260C	15.2	20.0	76	61-137
2-Hexanone	8260C	16.1	20.0	81	63-124
4-Methyl-2-pentanone	8260C	15.9	20.0	79	66-124
Acetone	8260C	16.5	20.0	83	40-161
Benzene	8260C	19.8	20.0	99	79-119
Bromodichloromethane	8260C	19.5	20.0	97	81-123
Bromoform	8260C	17.5	20.0	88	65-146
Bromomethane	8260C	23.3	20.0	116	42-166
Carbon Disulfide	8260C	17.8	20.0	89	66-128
Carbon Tetrachloride	8260C	19.5	20.0	98	70-127
Chlorobenzene	8260C	19.7	20.0	99	80-121
Chloroethane	8260C	21.3	20.0	107	62-131
Chloroform	8260C	17.7	20.0	88	79-120
Chloromethane (Methyl Chloride)	8260C	20.2	20.0	101	65-135
Dibromochloromethane	8260C	18.3	20.0	91	72-128
Dichloromethane (Methylene Chloride)	8260C	18.9	20.0	95	73-122
Ethylbenzene	8260C	20.0	20.0	100	76-120
Styrene	8260C	20.3	20.0	102	80-124
Tetrachloroethene (PCE)	8260C	20.2	20.0	101	72-125
Toluene	8260C	20.4	20.0	102	79-119
Trichloroethene (TCE)	8260C	20.7	20.0	103	74-122
Vinyl Chloride	8260C	19.8	20.0	99	74-159
cis-1,3-Dichloropropene	8260C	19.5	20.0	97	77-122
m,p-Xylenes	8260C	40.6	40.0	101	80-126
o-Xylene	8260C	20.1	20.0	100	79-123
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	71-133

Volatile Organic Compounds by GC

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	06/08/21
Sample Matrix:	Water	**Date Received:**	06/08/21
		Date Analyzed:	06/11/21

Duplicate Matrix Spike Summary
Dissolved Gases by GC/FID

Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2105683-009	**Basis:**	NA
Analysis Method:	RSK 175		

		Matrix Spike RQ2106661-05			**Duplicate Matrix Spike** RQ2106661-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Methane	6.1	57.7	52.5	98	56.5	52.5	96	46-143	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106613-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/10/21 11:08	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2106661-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	06/11/21 12:24	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/11/21

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2106661-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Methane	RSK 175	29.1	26.2	111	85-115

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/10/21

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ2106613-03			RQ2106613-04					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Methane	RSK 175	28.3	26.2	108	26.1	26.2	100	85-115	8	20

Metals

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Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2105683-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100	U	ug/L	100	1	06/11/21 13:04	06/10/21	
Manganese, Dissolved	200.7	10	U	ug/L	10	1	06/11/21 13:04	06/10/21	

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dba ALS Environmental

QA/QC Report

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request:R2105683
Date Collected:06/08/21
Date Received:06/08/21
Date Analyzed:6/11/21

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-9B
Lab Code: R2105683-009

Units:ug/L
Basis:NA

			Matrix Spike R2105683-009MS			Duplicate Matrix Spike R2105683-009DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Dissolved	200.7	100 U	1000	1000	100	970	1000	97	70-130	3	20
Manganese, Dissolved	200.7	28	507	500	96	493	500	93	70-130	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/11/21

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2105683-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Dissolved	200.7	980	1000	98	85-115
Manganese, Dissolved	200.7	486	500	97	85-115

General Chemistry

ALS Environmental—Rochester Laboratory
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www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2105683-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.10	U	mg/L	0.10	1	06/09/21 11:26	
Nitrite as Nitrogen	300.0	0.10	U	mg/L	0.10	1	06/09/21 11:26	
Sulfate	300.0	0.20	U	mg/L	0.20	1	06/09/21 11:26	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2105683-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.10	U	mg/L	0.10	1	06/09/21 14:25	
Nitrite as Nitrogen	300.0	0.10	U	mg/L	0.10	1	06/09/21 14:25	
Sulfate	300.0	0.20	U	mg/L	0.20	1	06/09/21 14:25	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2105683
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2105683-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Sulfate	300.0	0.20 U	mg/L	0.20	1	06/14/21 19:43	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request:R2105683
Date Collected:06/08/21
Date Received:06/08/21
Date Analyzed:06/09/21 - 06/14/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-9B
Lab Code: R2105683-009

Units:mg/L
Basis:NA

			Matrix Spike R2105683-009MS			Duplicate Matrix Spike R2105683-009DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate as Nitrogen	300.0	1.0 U	9.9	10.0	99	9.9	10.0	99	90-110	<1	20
Sulfate	300.0	645	1030	400	97	1040	400	98	90-110	<1	20
Nitrite as Nitrogen	300.0	1.0 U	9.3	10.0	93	9.3	10.0	93	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/09/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2105683-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.979	1.00	98	90-110
Nitrite as Nitrogen	300.0	0.97	1.00	97	90-110
Sulfate	300.0	1.95	2.00	98	90-110

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/09/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2105683-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.98	1.00	98	90-110
Nitrite as Nitrogen	300.0	0.98	1.00	98	90-110
Sulfate	300.0	1.95	2.00	98	90-110

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2105683
Date Analyzed: 06/14/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2105683-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	300.0	1.99	2.00	99	90-110

November 19, 2021 Service Request No:R2111850

Mr. Brian McGrath
Barton & Loguidice, PC
11 Centre Park
Suite 203
Rochester, NY 14614

Laboratory Results for: Nouryon

Dear Mr.McGrath,

Enclosed are the results of the sample(s) submitted to our laboratory November 09, 2021
For your reference, these analyses have been assigned our service request number **R2111850.**

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at Brady.Kalkman@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Brady Kalkman
Project Manager

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ALS Group USA, Corp.
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Narrative Documents

ALS Environmental—Rochester Laboratory
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Client: Barton & Loguidice, DPC
Project: Nouryon
Sample Matrix: Water

Service Request: R2111850
Date Received: 11/09/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Thirteen water samples were received for analysis at ALS Environmental on 11/09/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 11/17/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC:

Method RSK 175, 11/18/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Approved by _____ Date 11/19/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-1			Lab ID: R2111850-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	45.3			2.0	mg/L	300.0
Manganese, Dissolved	46			10	ug/L	200.7
1,2-Dichloroethene, Total	1.5	J	0.35	2.0	ug/L	8260C
Dichloromethane (Methylene Chloride)	2.2		0.65	1.0	ug/L	8260C
Trichloroethene (TCE)	8.0		0.20	1.0	ug/L	8260C
Methane, Dissolved	1.8			1.1	ug/L	RSK 175

CLIENT ID: Dupe-X			Lab ID: R2111850-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	45.3			2.0	mg/L	300.0
Manganese, Dissolved	45			10	ug/L	200.7
1,2-Dichloroethene, Total	1.4	J	0.35	2.0	ug/L	8260C
Dichloromethane (Methylene Chloride)	2.0		0.65	1.0	ug/L	8260C
Trichloroethene (TCE)	7.7		0.20	1.0	ug/L	8260C
Methane, Dissolved	2.0			1.1	ug/L	RSK 175

CLIENT ID: MW-2			Lab ID: R2111850-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	76.1			2.0	mg/L	300.0
Manganese, Dissolved	530			10	ug/L	200.7
Chlorobenzene	0.56	J	0.20	1.0	ug/L	8260C
Methane, Dissolved	540			11	ug/L	RSK 175

CLIENT ID: MW-3			Lab ID: R2111850-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	65.4			2.0	mg/L	300.0

CLIENT ID: MW-4			Lab ID: R2111850-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	27.4			2.0	mg/L	300.0

CLIENT ID: MW-4B			Lab ID: R2111850-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	862			40	mg/L	300.0
Manganese, Dissolved	89			10	ug/L	200.7
Methane, Dissolved	6.4			1.1	ug/L	RSK 175

CLIENT ID: MW-5			Lab ID: R2111850-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	53.3			2.0	mg/L	300.0

CLIENT ID: MW-9			Lab ID: R2111850-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	3.3			1.0	mg/L	300.0
Sulfate	58.5			2.0	mg/L	300.0

SAMPLE DETECTION SUMMARY

CLIENT ID: MW-9			Lab ID: R2111850-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
1,1,1-Trichloroethane (TCA)	2.6		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.39	J	0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.66	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	0.40	J	0.20	1.0	ug/L	8260C

CLIENT ID: MW-9B			Lab ID: R2111850-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	617			20	mg/L	300.0
Manganese, Dissolved	24			10	ug/L	200.7
Methane, Dissolved	4.5			1.1	ug/L	RSK 175

CLIENT ID: MW-10			Lab ID: R2111850-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Nitrate as Nitrogen	1.7			1.0	mg/L	300.0
Sulfate	46.5			2.0	mg/L	300.0
Manganese, Dissolved	839			10	ug/L	200.7
1,1,1-Trichloroethane (TCA)	1.0		0.20	1.0	ug/L	8260C
Methane, Dissolved	4.3			1.1	ug/L	RSK 175

CLIENT ID: MW-11			Lab ID: R2111850-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	45.0			2.0	mg/L	300.0
Manganese, Dissolved	794			10	ug/L	200.7

CLIENT ID: MW-11B			Lab ID: R2111850-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Sulfate	167			4.0	mg/L	300.0
Methane, Dissolved	6.9			1.1	ug/L	RSK 175

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Barton & Loguidice, DPC **Service Request:**R2111850
Project: Nouryon/1398.003.001

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R2111850-001	MW-1	11/9/2021	0940
R2111850-002	Dupe-X	11/9/2021	
R2111850-003	MW-2	11/9/2021	1425
R2111850-004	MW-3	11/9/2021	1044
R2111850-005	MW-4	11/9/2021	1137
R2111850-006	MW-4B	11/9/2021	1150
R2111850-007	MW-5	11/9/2021	1016
R2111850-008	MW-9	11/9/2021	1312
R2111850-009	MW-9B	11/9/2021	1325
R2111850-010	MW-10	11/9/2021	1400
R2111850-011	MW-11	11/9/2021	1223
R2111850-012	MW-11B	11/9/2021	1240
R2111850-013	Trip Blank	11/9/2021	

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T050691

ALS Environmental

1565 Jefferson Road, Bldg 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Nouryon
Project Number: 1398.003.001
Report To: Brian McGrath
Company / Address: Barton & Loguidice, PC, 11 Centre Park Suite 203, Rochester NY, 14614
Phone #: 585-325-7190
FAX #:
Sampler Signature:
Sampler Printed Name: Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-1		11/9/21	09:40	Liquid	8	X	X	X	X	X	X	X	
Dupe-X		11/9/21	—	Liquid	8	X	X	X	X	X	X	X	
MW-2			14:25	Liquid	8	X	X	X	X	X	X	X	
MW-3			10:44	Liquid	8	X	X	X	X	X	X	X	
MW-4			11:37	Liquid	8	X	X	X	X	X	X	X	
MW-4B			11:50	Liquid	8	X	X	X	X	X	X	X	
MW-5			10:16	Liquid	8	X	X	X	X	X	X	X	
MW-9			13:12	Liquid	8	X	X	X	X	X	X	X	
MW-9B			13:25	Liquid	8	X	X	X	X	X	X	X	
MW-10 (MS/MSD)			14:00	Liquid	16	X	X	X	X	X	X	X	MS/MSD

Special Instructions/Comments:

Turnaround Requirements
- ___ RUSH (SURCHARGES APPLY)
- X Standard

REQUESTED FAX DATE _____

Requested Report Date _____

Report Requirements
- ___ I. Results Only
- X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ___ III. Results + QC and Cllibration Summaries
- ___ IV. Data Validation Report with Raw Data

EData ____Yes ____No

Invoice Information
P.O.# _____
Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Brian J. McGrath	Printed Name: JV Donvan	Printed Name	Printed Name	Printed Name	Printed Name
Firm: B+L	Firm: B&L	Firm	Firm	Firm	Firm
Date/Time: 11/9/21 16:25	Date/Time: 11/9/21 16:25	Date/Time	Date/Time	Date/Time	

R2111850 5
Barton & Loguidice, PC
Nouryon

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

SR# _____

T050691

ALS Environmental

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Phone (585) 288-5380 / FAX (585) 288-8475
www.alsglobal.com

003, 004, 006, 007, 009, 010, 011, 012, 013, 014, 016, 017, 018

Project Name: Akzo Nobel	
Project Number: 1398.003.001	Report To Brian McGrath
Company / Address Barton & Loguidice, PC 11 Centre Park Suite 203 Rochester NY, 14614	
Phone # 585-325-7100	FAX #
Sampler Signature	Sampler Printed Name Brian J. McGrath

CLIENT SAMPLE ID	LABID	SAMPLING Date	SAMPLING Time	Matrix	NUMBER OF CONTAINERS	48H 300.0 / NO2	48H 300.0 / NO3	14D 8260C / VOC FP	14D RSK 175 / Gases	28D 300.0 / SO4	180D 200.7 / Fe D	180D 200.7 / Mn D	Remarks
MW-11		11/09/21	12:23	Liquid	8	X	X	X	X	X	X	X	
MW-11B		11/9/21	12:40	Liquid	8	X	X	X	X	X	X	X	
Trip Blank				Liquid	3			X					
14.				Liquid									
15.				Liquid									
16.				Liquid									
17.				Liquid									
18.				Liquid									
19.				Liquid									
20.				Liquid									

Special Instructions/Comments:

Turnaround Requirements

___ RUSH (SURCHARGES APPLY)

X Standard

_____ REQUESTED FAX DATE

_____ Requested Report Date

Report Requirements

___ I. Results Only

X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

___ III. Results + QC and Calibration Summaries

___ IV. Data Validation Report with Raw Data

EData ____Yes ____No

Invoice Information

P.O.# _____

Bill To: B+L

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name Brian J. McGrath	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm B+L	Firm A.S.L	Firm	Firm	Firm	Firm
Date/Time 11/09/21 16:23	Date/Time 11/09/21 16:[illegible]	Date/Time	Date/Time	Date/Time	Date/Time

R2111850 5
Barton & Loguidice, PC
Nouryon

Page 2 of 2

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Barton & Loguidice, PC
Nouryon

Cooler Receipt and Preservation Check Form

Project/Client Barton & Loguidice Folder Number _____

Cooler received on 11/9/21 by: MM COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(N/A)

8. Temperature Readings Date: 11/9/21 Time: 16:35 ID: IR#7 (IR#11) From: (Temp Blank) Sample Bottle

Observed Temp (°C)	9.5						
Within 0-6°C?	Y (N)	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R002 by MM on 11/9/21 at 16:45
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 11/10/21 Time: 1234 by: AD

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? ~~YES~~ NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	225320	HNO_3	✓		112/062					
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 21-20 2586

Explain all Discrepancies/ Other Comments:

HPROD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: AD

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations[1]

NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001		

Sample Name:	MW-1	**Date Collected:**	11/9/21
Lab Code:	R2111850-001	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	Dupe-X	**Date Collected:**	11/9/21
Lab Code:	R2111850-002	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	MW-2	**Date Collected:**	11/9/21
Lab Code:	R2111850-003	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	MW-3	**Date Collected:**	11/9/21
Lab Code:	R2111850-004	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001		

Sample Name:	MW-3	**Date Collected:**	11/9/21
Lab Code:	R2111850-004	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	MW-4	**Date Collected:**	11/9/21
Lab Code:	R2111850-005	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	MW-4B	**Date Collected:**	11/9/21
Lab Code:	R2111850-006	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name:	MW-5	**Date Collected:**	11/9/21
Lab Code:	R2111850-007	**Date Received:**	11/9/21
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN

Client: Barton & Loguidice, DPC **Service Request:** R2111850
Project: Nouryon/1398.003.001

Sample Name: MW-5 **Date Collected:** 11/9/21
Lab Code: R2111850-007 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
RSK 175		FNAEGLER

Sample Name: MW-9 **Date Collected:** 11/9/21
Lab Code: R2111850-008 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name: MW-9B **Date Collected:** 11/9/21
Lab Code: R2111850-009 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name: MW-10 **Date Collected:** 11/9/21
Lab Code: R2111850-010 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER

Client: Barton & Loguidice, DPC **Service Request:** R2111850
Project: Nouryon/1398.003.001

Sample Name: MW-10 **Date Collected:** 11/9/21
Lab Code: R2111850-010 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		FNAEGLER

Sample Name: MW-11 **Date Collected:** 11/9/21
Lab Code: R2111850-011 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name: MW-11B **Date Collected:** 11/9/21
Lab Code: R2111850-012 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
200.7	BDIAMOND	KMCLAEN
300.0		SMORGAN
8260C		FNAEGLER
RSK 175		FNAEGLER

Sample Name: Trip Blank **Date Collected:** 11/9/21
Lab Code: R2111850-013 **Date Received:** 11/9/21
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 09:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2111850-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 21:39	
1,2-Dichloroethene, Total	**1.5 J**	2.0	0.35	1	11/17/21 21:39	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 21:39	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 21:39	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 21:39	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 21:39	
Acetone	5.0 U	5.0	5.0	1	11/17/21 21:39	
Benzene	1.0 U	1.0	0.20	1	11/17/21 21:39	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 21:39	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 21:39	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 21:39	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 21:39	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 21:39	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 21:39	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 21:39	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 21:39	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 21:39	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 21:39	
Dichloromethane (Methylene Chloride)	**2.2**	1.0	0.65	1	11/17/21 21:39	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 21:39	
Styrene	1.0 U	1.0	0.20	1	11/17/21 21:39	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 21:39	
Toluene	1.0 U	1.0	0.20	1	11/17/21 21:39	
Trichloroethene (TCE)	**8.0**	1.0	0.20	1	11/17/21 21:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 21:39	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 21:39	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 21:39	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 21:39	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 21:39	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 09:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2111850-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/17/21 21:39	
Dibromofluoromethane	106	80 - 116	11/17/21 21:39	
Toluene-d8	107	87 - 121	11/17/21 21:39	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Dupe-X	**Units:**	ug/L
Lab Code:	R2111850-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:01	
1,2-Dichloroethene, Total	**1.4 J**	2.0	0.35	1	11/17/21 22:01	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 22:01	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 22:01	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 22:01	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 22:01	
Acetone	5.0 U	5.0	5.0	1	11/17/21 22:01	
Benzene	1.0 U	1.0	0.20	1	11/17/21 22:01	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 22:01	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 22:01	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 22:01	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 22:01	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 22:01	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 22:01	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 22:01	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 22:01	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 22:01	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 22:01	
Dichloromethane (Methylene Chloride)	**2.0**	1.0	0.65	1	11/17/21 22:01	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 22:01	
Styrene	1.0 U	1.0	0.20	1	11/17/21 22:01	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 22:01	
Toluene	1.0 U	1.0	0.20	1	11/17/21 22:01	
Trichloroethene (TCE)	**7.7**	1.0	0.20	1	11/17/21 22:01	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 22:01	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 22:01	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 22:01	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 22:01	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 22:01	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Dupe-X	**Units:**	ug/L
Lab Code:	R2111850-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/17/21 22:01	
Dibromofluoromethane	108	80 - 116	11/17/21 22:01	
Toluene-d8	109	87 - 121	11/17/21 22:01	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2111850-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:23	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/17/21 22:23	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 22:23	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 22:23	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 22:23	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 22:23	
Acetone	5.0 U	5.0	5.0	1	11/17/21 22:23	
Benzene	1.0 U	1.0	0.20	1	11/17/21 22:23	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 22:23	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 22:23	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 22:23	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 22:23	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 22:23	
Chlorobenzene	**0.56 J**	1.0	0.20	1	11/17/21 22:23	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 22:23	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 22:23	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 22:23	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 22:23	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/17/21 22:23	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 22:23	
Styrene	1.0 U	1.0	0.20	1	11/17/21 22:23	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 22:23	
Toluene	1.0 U	1.0	0.20	1	11/17/21 22:23	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/17/21 22:23	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 22:23	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 22:23	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 22:23	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 22:23	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 22:23	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2111850-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/17/21 22:23	
Dibromofluoromethane	110	80 - 116	11/17/21 22:23	
Toluene-d8	110	87 - 121	11/17/21 22:23	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:44
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2111850-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 22:44	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/17/21 22:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 22:44	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 22:44	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 22:44	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 22:44	
Acetone	5.0 U	5.0	5.0	1	11/17/21 22:44	
Benzene	1.0 U	1.0	0.20	1	11/17/21 22:44	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 22:44	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 22:44	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 22:44	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 22:44	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 22:44	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 22:44	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 22:44	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 22:44	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 22:44	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 22:44	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/17/21 22:44	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 22:44	
Styrene	1.0 U	1.0	0.20	1	11/17/21 22:44	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 22:44	
Toluene	1.0 U	1.0	0.20	1	11/17/21 22:44	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/17/21 22:44	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 22:44	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 22:44	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 22:44	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 22:44	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 22:44	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:44
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2111850-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/17/21 22:44	
Dibromofluoromethane	106	80 - 116	11/17/21 22:44	
Toluene-d8	109	87 - 121	11/17/21 22:44	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:37
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2111850-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 23:06	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/17/21 23:06	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 23:06	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 23:06	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 23:06	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 23:06	
Acetone	5.0 U	5.0	5.0	1	11/17/21 23:06	
Benzene	1.0 U	1.0	0.20	1	11/17/21 23:06	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 23:06	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 23:06	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 23:06	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 23:06	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 23:06	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 23:06	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 23:06	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 23:06	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 23:06	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 23:06	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/17/21 23:06	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 23:06	
Styrene	1.0 U	1.0	0.20	1	11/17/21 23:06	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 23:06	
Toluene	1.0 U	1.0	0.20	1	11/17/21 23:06	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/17/21 23:06	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 23:06	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 23:06	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 23:06	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 23:06	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 23:06	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:37
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2111850-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	11/17/21 23:06	
Dibromofluoromethane	107	80 - 116	11/17/21 23:06	
Toluene-d8	108	87 - 121	11/17/21 23:06	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:50
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2111850-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 23:28	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/17/21 23:28	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 23:28	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 23:28	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 23:28	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 23:28	
Acetone	5.0 U	5.0	5.0	1	11/17/21 23:28	
Benzene	1.0 U	1.0	0.20	1	11/17/21 23:28	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 23:28	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 23:28	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 23:28	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 23:28	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 23:28	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 23:28	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 23:28	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 23:28	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 23:28	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 23:28	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/17/21 23:28	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 23:28	
Styrene	1.0 U	1.0	0.20	1	11/17/21 23:28	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 23:28	
Toluene	1.0 U	1.0	0.20	1	11/17/21 23:28	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/17/21 23:28	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 23:28	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 23:28	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 23:28	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 23:28	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 23:28	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:50
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2111850-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/17/21 23:28	
Dibromofluoromethane	107	80 - 116	11/17/21 23:28	
Toluene-d8	109	87 - 121	11/17/21 23:28	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:16
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2111850-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 12:53	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 12:53	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 12:53	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 12:53	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 12:53	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 12:53	
Acetone	5.0 U	5.0	5.0	1	11/18/21 12:53	
Benzene	1.0 U	1.0	0.20	1	11/18/21 12:53	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 12:53	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 12:53	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 12:53	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 12:53	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 12:53	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 12:53	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 12:53	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 12:53	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 12:53	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 12:53	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 12:53	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 12:53	
Styrene	1.0 U	1.0	0.20	1	11/18/21 12:53	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 12:53	
Toluene	1.0 U	1.0	0.20	1	11/18/21 12:53	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 12:53	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 12:53	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 12:53	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 12:53	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 12:53	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 12:53	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:16
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2111850-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	11/18/21 12:53	
Dibromofluoromethane	99	80 - 116	11/18/21 12:53	
Toluene-d8	106	87 - 121	11/18/21 12:53	

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:12
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2111850-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**2.6**	1.0	0.20	1	11/18/21 00:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 00:12	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:12	
1,1-Dichloroethane (1,1-DCA)	**0.39 J**	1.0	0.20	1	11/18/21 00:12	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 00:12	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:12	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 00:12	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 00:12	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 00:12	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 00:12	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 00:12	
Acetone	5.0 U	5.0	5.0	1	11/18/21 00:12	
Benzene	1.0 U	1.0	0.20	1	11/18/21 00:12	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 00:12	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 00:12	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 00:12	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 00:12	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 00:12	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 00:12	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 00:12	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 00:12	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 00:12	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 00:12	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 00:12	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 00:12	
Styrene	1.0 U	1.0	0.20	1	11/18/21 00:12	
Tetrachloroethene (PCE)	**0.66 J**	1.0	0.21	1	11/18/21 00:12	
Toluene	1.0 U	1.0	0.20	1	11/18/21 00:12	
Trichloroethene (TCE)	**0.40 J**	1.0	0.20	1	11/18/21 00:12	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 00:12	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 00:12	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 00:12	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 00:12	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 00:12	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:12
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2111850-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	11/18/21 00:12	
Dibromofluoromethane	108	80 - 116	11/18/21 00:12	
Toluene-d8	107	87 - 121	11/18/21 00:12	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2111850-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:34	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 00:34	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 00:34	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 00:34	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 00:34	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 00:34	
Acetone	5.0 U	5.0	5.0	1	11/18/21 00:34	
Benzene	1.0 U	1.0	0.20	1	11/18/21 00:34	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 00:34	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 00:34	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 00:34	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 00:34	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 00:34	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 00:34	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 00:34	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 00:34	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 00:34	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 00:34	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 00:34	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 00:34	
Styrene	1.0 U	1.0	0.20	1	11/18/21 00:34	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 00:34	
Toluene	1.0 U	1.0	0.20	1	11/18/21 00:34	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 00:34	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 00:34	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 00:34	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 00:34	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 00:34	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 00:34	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2111850-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	11/18/21 00:34	
Dibromofluoromethane	105	80 - 116	11/18/21 00:34	
Toluene-d8	104	87 - 121	11/18/21 00:34	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:00
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2111850-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	**1.0**	1.0	0.20	1	11/18/21 00:56	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 00:56	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:56	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 00:56	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 00:56	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 00:56	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 00:56	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 00:56	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 00:56	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 00:56	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 00:56	
Acetone	5.0 U	5.0	5.0	1	11/18/21 00:56	
Benzene	1.0 U	1.0	0.20	1	11/18/21 00:56	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 00:56	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 00:56	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 00:56	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 00:56	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 00:56	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 00:56	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 00:56	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 00:56	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 00:56	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 00:56	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 00:56	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 00:56	
Styrene	1.0 U	1.0	0.20	1	11/18/21 00:56	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 00:56	
Toluene	1.0 U	1.0	0.20	1	11/18/21 00:56	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 00:56	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 00:56	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 00:56	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 00:56	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 00:56	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 00:56	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:00
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2111850-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/18/21 00:56	
Dibromofluoromethane	108	80 - 116	11/18/21 00:56	
Toluene-d8	110	87 - 121	11/18/21 00:56	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:23
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2111850-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 01:18	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 01:18	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 01:18	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 01:18	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 01:18	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 01:18	
Acetone	5.0 U	5.0	5.0	1	11/18/21 01:18	
Benzene	1.0 U	1.0	0.20	1	11/18/21 01:18	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 01:18	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 01:18	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 01:18	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 01:18	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 01:18	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 01:18	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 01:18	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 01:18	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 01:18	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 01:18	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 01:18	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 01:18	
Styrene	1.0 U	1.0	0.20	1	11/18/21 01:18	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 01:18	
Toluene	1.0 U	1.0	0.20	1	11/18/21 01:18	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 01:18	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 01:18	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 01:18	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 01:18	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 01:18	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 01:18	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:23
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2111850-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	11/18/21 01:18	
Dibromofluoromethane	108	80 - 116	11/18/21 01:18	
Toluene-d8	108	87 - 121	11/18/21 01:18	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2111850-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 01:39	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 01:39	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 01:39	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 01:39	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 01:39	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 01:39	
Acetone	5.0 U	5.0	5.0	1	11/18/21 01:39	
Benzene	1.0 U	1.0	0.20	1	11/18/21 01:39	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 01:39	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 01:39	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 01:39	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 01:39	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 01:39	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 01:39	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 01:39	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 01:39	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 01:39	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 01:39	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 01:39	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 01:39	
Styrene	1.0 U	1.0	0.20	1	11/18/21 01:39	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 01:39	
Toluene	1.0 U	1.0	0.20	1	11/18/21 01:39	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 01:39	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 01:39	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 01:39	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 01:39	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 01:39	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 01:39	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2111850-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	11/18/21 01:39	
Dibromofluoromethane	105	80 - 116	11/18/21 01:39	
Toluene-d8	107	87 - 121	11/18/21 01:39	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2111850-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	11/17/21 21:17	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	11/17/21 21:17	
1,1,2-Trichloroethane	1.0 U	1.0	1	11/17/21 21:17	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	11/17/21 21:17	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	11/17/21 21:17	
1,2-Dichloroethane	1.0 U	1.0	1	11/17/21 21:17	
1,2-Dichloroethene, Total	2.0 U	2.0	1	11/17/21 21:17	
1,2-Dichloropropane	1.0 U	1.0	1	11/17/21 21:17	
2-Butanone (MEK)	5.0 U	5.0	1	11/17/21 21:17	
2-Hexanone	5.0 U	5.0	1	11/17/21 21:17	
4-Methyl-2-pentanone	5.0 U	5.0	1	11/17/21 21:17	
Acetone	5.0 U	5.0	1	11/17/21 21:17	
Benzene	1.0 U	1.0	1	11/17/21 21:17	
Bromodichloromethane	1.0 U	1.0	1	11/17/21 21:17	
Bromoform	1.0 U	1.0	1	11/17/21 21:17	
Bromomethane	1.0 U	1.0	1	11/17/21 21:17	
Carbon Disulfide	1.0 U	1.0	1	11/17/21 21:17	
Carbon Tetrachloride	1.0 U	1.0	1	11/17/21 21:17	
Chlorobenzene	1.0 U	1.0	1	11/17/21 21:17	
Chloroethane	1.0 U	1.0	1	11/17/21 21:17	
Chloroform	1.0 U	1.0	1	11/17/21 21:17	
Chloromethane (Methyl Chloride)	1.0 U	1.0	1	11/17/21 21:17	
Dibromochloromethane	1.0 U	1.0	1	11/17/21 21:17	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	1	11/17/21 21:17	
Ethylbenzene	1.0 U	1.0	1	11/17/21 21:17	
Styrene	1.0 U	1.0	1	11/17/21 21:17	
Tetrachloroethene (PCE)	1.0 U	1.0	1	11/17/21 21:17	
Toluene	1.0 U	1.0	1	11/17/21 21:17	
Trichloroethene (TCE)	1.0 U	1.0	1	11/17/21 21:17	
Vinyl Chloride	1.0 U	1.0	1	11/17/21 21:17	
cis-1,3-Dichloropropene	1.0 U	1.0	1	11/17/21 21:17	
m,p-Xylenes	2.0 U	2.0	1	11/17/21 21:17	
o-Xylene	1.0 U	1.0	1	11/17/21 21:17	
trans-1,3-Dichloropropene	1.0 U	1.0	1	11/17/21 21:17	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	R2111850-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	11/17/21 21:17	
Dibromofluoromethane	106	80 - 116	11/17/21 21:17	
Toluene-d8	108	87 - 121	11/17/21 21:17	

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 09:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-1	**Units:**	ug/L
Lab Code:	R2111850-001	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**1.8**	1.1	1	11/18/21 09:12	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Dupe-X	**Units:**	ug/L
Lab Code:	R2111850-002	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**2.0**	1.1	1	11/18/21 09:22	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-2	**Units:**	ug/L
Lab Code:	R2111850-003	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**540**	11	10	11/18/21 09:43	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:44
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R2111850-004	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 09:54	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:37
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4	**Units:**	ug/L
Lab Code:	R2111850-005	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 10:02	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:50
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4B	**Units:**	ug/L
Lab Code:	R2111850-006	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**6.4**	1.1	1	11/18/21 10:12	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:16
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-5	**Units:**	ug/L
Lab Code:	R2111850-007	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 10:21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:12
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9	**Units:**	ug/L
Lab Code:	R2111850-008	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 10:31	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9B	**Units:**	ug/L
Lab Code:	R2111850-009	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**4.5**	1.1	1	11/18/21 10:40	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:00
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2111850-010	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**4.3**	1.1	1	11/18/21 10:59	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:23
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11	**Units:**	ug/L
Lab Code:	R2111850-011	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 11:30	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11B	**Units:**	ug/L
Lab Code:	R2111850-012	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	**6.9**	1.1	1	11/18/21 11:39	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 09:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-1	**Basis:**	NA
Lab Code:	R2111850-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:10	11/12/21	
Manganese, Dissolved	200.7	**46**	ug/L	10	1	11/15/21 23:10	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Dupe-X	**Basis:**	NA
Lab Code:	R2111850-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:13	11/12/21	
Manganese, Dissolved	200.7	**45**	ug/L	10	1	11/15/21 23:13	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-2	**Basis:**	NA
Lab Code:	R2111850-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:16	11/12/21	
Manganese, Dissolved	200.7	**530**	ug/L	10	1	11/15/21 23:16	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:44
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-3	**Basis:**	NA
Lab Code:	R2111850-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:19	11/12/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	11/15/21 23:19	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:37
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4	**Basis:**	NA
Lab Code:	R2111850-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:22	11/12/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	11/15/21 23:22	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:50
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4B	**Basis:**	NA
Lab Code:	R2111850-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:25	11/12/21	
Manganese, Dissolved	200.7	**89**	ug/L	10	1	11/15/21 23:25	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:16
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-5	**Basis:**	NA
Lab Code:	R2111850-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:28	11/12/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	11/15/21 23:28	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:12
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9	**Basis:**	NA
Lab Code:	R2111850-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:31	11/12/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	11/15/21 23:31	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9B	**Basis:**	NA
Lab Code:	R2111850-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:35	11/12/21	
Manganese, Dissolved	200.7	**24**	ug/L	10	1	11/15/21 23:35	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:00
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-10	**Basis:**	NA
Lab Code:	R2111850-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:38	11/12/21	
Manganese, Dissolved	200.7	**839**	ug/L	10	1	11/15/21 23:38	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:23
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11	**Basis:**	NA
Lab Code:	R2111850-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/15/21 23:59	11/12/21	
Manganese, Dissolved	200.7	**794**	ug/L	10	1	11/15/21 23:59	11/12/21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11B	**Basis:**	NA
Lab Code:	R2111850-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100 U	ug/L	100	1	11/16/21 00:02	11/12/21	
Manganese, Dissolved	200.7	10 U	ug/L	10	1	11/16/21 00:02	11/12/21	

General Chemistry

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 09:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-1	**Basis:**	NA
Lab Code:	R2111850-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:25	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:25	
Sulfate	300.0	**45.3**		mg/L	2.0	10	11/10/21 10:25	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	Dupe-X	**Basis:**	NA
Lab Code:	R2111850-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 10:32	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 10:32	
Sulfate	300.0	**45.3**	mg/L	2.0	10	11/10/21 10:32	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-2	**Basis:**	NA
Lab Code:	R2111850-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:39	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:39	
Sulfate	300.0	**76.1**		mg/L	2.0	10	11/10/21 10:39	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:44
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-3	**Basis:**	NA
Lab Code:	R2111850-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:46	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:46	
Sulfate	300.0	**65.4**		mg/L	2.0	10	11/10/21 10:46	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:37
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4	**Basis:**	NA
Lab Code:	R2111850-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 11:35	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 11:35	
Sulfate	300.0	**27.4**		mg/L	2.0	10	11/10/21 11:35	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 11:50
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-4B	**Basis:**	NA
Lab Code:	R2111850-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:53	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 10:53	
Sulfate	300.0	**862**		mg/L	40	200	11/11/21 11:07	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 10:16
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-5	**Basis:**	NA
Lab Code:	R2111850-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 11:42	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 11:42	
Sulfate	300.0	**53.3**	mg/L	2.0	10	11/10/21 11:42	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:12
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9	**Basis:**	NA
Lab Code:	R2111850-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	**3.3**	mg/L	1.0	10	11/10/21 11:49	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 11:49	
Sulfate	300.0	**58.5**	mg/L	2.0	10	11/10/21 11:49	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 13:25
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-9B	**Basis:**	NA
Lab Code:	R2111850-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 11:56	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 11:56	
Sulfate	300.0	**617**	mg/L	20	100	11/11/21 11:28	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 14:00
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-10	**Basis:**	NA
Lab Code:	R2111850-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	**1.7**	mg/L	1.0	10	11/10/21 12:03	
Nitrite as Nitrogen	300.0	1.0 U	mg/L	1.0	10	11/10/21 12:03	
Sulfate	300.0	**46.5**	mg/L	2.0	10	11/10/21 12:03	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:23
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11	**Basis:**	NA
Lab Code:	R2111850-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 12:24	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 12:24	
Sulfate	300.0	**45.0**		mg/L	2.0	10	11/10/21 12:24	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21 12:40
Sample Matrix:	Water	**Date Received:**	11/09/21 16:23
Sample Name:	MW-11B	**Basis:**	NA
Lab Code:	R2111850-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 12:31	
Nitrite as Nitrogen	300.0	1.0	U	mg/L	1.0	10	11/10/21 12:31	
Sulfate	300.0	**167**		mg/L	4.0	20	11/11/21 11:35	

QC Summary Forms

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: Barton & Loguidice, DPC **Service Request:** R2111850
Project: Nouryon/1398.003.001
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene 85-122	Dibromofluoromethane 80-116	Toluene-d8 87-121
MW-1	R2111850-001	95	106	107
Dupe-X	R2111850-002	95	108	109
MW-2	R2111850-003	96	110	110
MW-3	R2111850-004	95	106	109
MW-4	R2111850-005	93	107	108
MW-4B	R2111850-006	96	107	109
MW-5	R2111850-007	97	99	106
MW-9	R2111850-008	93	108	107
MW-9B	R2111850-009	92	105	104
MW-10	R2111850-010	96	108	110
MW-11	R2111850-011	94	108	108
MW-11B	R2111850-012	95	105	107
Trip Blank	R2111850-013	94	106	108
Method Blank	RQ2114763-04	94	105	108
Method Blank	RQ2114855-04	96	98	105
Lab Control Sample	RQ2114763-03	99	107	105
Lab Control Sample	RQ2114855-03	96	101	106
MW-10 MS	RQ2114763-05	101	108	108
MW-10 DMS	RQ2114763-06	104	110	109

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21
		Date Analyzed:	11/18/21
		Date Extracted:	NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2111850-010	**Basis:**	NA
Analysis Method:	8260C		
Prep Method:	EPA 5030C		

		Matrix Spike			Duplicate Matrix Spike				
		RQ2114763-05			RQ2114763-06				
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,1,1-Trichloroethane (TCA)	1.0	50.1	50.0	98	50.3	50.0	99	74-127	<1	30
1,1,2,2-Tetrachloroethane	1.0 U	47.0	50.0	94	49.6	50.0	99	72-122	5	30
1,1,2-Trichloroethane	1.0 U	49.9	50.0	100	48.6	50.0	97	82-121	3	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	47.8	50.0	96	48.4	50.0	97	74-132	1	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	49.6	50.0	99	48.1	50.0	96	71-118	3	30
1,2-Dichloroethane	1.0 U	44.1	50.0	88	44.8	50.0	90	68-130	2	30
1,2-Dichloropropane	1.0 U	43.8	50.0	88	44.0	50.0	88	79-124	<1	30
2-Butanone (MEK)	5.0 U	56.7	50.0	113	56.0	50.0	112	61-137	1	30
2-Hexanone	5.0 U	58.6	50.0	117	59.6	50.0	119	56-132	2	30
4-Methyl-2-pentanone	5.0 U	55.6	50.0	111	56.8	50.0	114	60-141	2	30
Acetone	5.0 U	55.5	50.0	111	54.7	50.0	109	35-183	1	30
Benzene	1.0 U	46.5	50.0	93	46.3	50.0	93	76-129	<1	30
Bromodichloromethane	1.0 U	41.7	50.0	83	43.1	50.0	86	78-133	3	30
Bromoform	1.0 U	40.4	50.0	81	41.6	50.0	83	58-133	3	30
Bromomethane	1.0 U	37.4	50.0	75	34.6	50.0	69	10-184	8	30
Carbon Disulfide	1.0 U	47.3	50.0	95	51.2	50.0	102	59-140	8	30
Carbon Tetrachloride	1.0 U	42.7	50.0	85	43.7	50.0	87	65-135	2	30
Chlorobenzene	1.0 U	49.7	50.0	99	50.2	50.0	100	76-125	1	30
Chloroethane	1.0 U	51.5	50.0	103	47.2	50.0	94	48-146	9	30
Chloroform	1.0 U	46.7	50.0	93	47.8	50.0	96	75-130	2	30
Chloromethane (Methyl Chloride)	1.0 U	64.8	50.0	130	64.1	50.0	128	55-160	1	30
Dibromochloromethane	1.0 U	43.0	50.0	86	44.3	50.0	89	72-128	3	30
Dichloromethane (Methylene Chloride)	1.0 U	41.7	50.0	83	42.3	50.0	85	73-122	2	30
Ethylbenzene	1.0 U	50.6	50.0	101	49.4	50.0	99	72-134	2	30
Styrene	1.0 U	49.9	50.0	100	49.7	50.0	99	74-136	<1	30
Tetrachloroethene (PCE)	1.0 U	48.5	50.0	97	51.3	50.0	103	72-125	5	30
Toluene	1.0 U	49.4	50.0	99	49.9	50.0	100	79-119	<1	30
Trichloroethene (TCE)	1.0 U	49.1	50.0	98	49.1	50.0	98	74-122	<1	30
Vinyl Chloride	1.0 U	55.2	50.0	110	54.9	50.0	110	74-159	<1	30
cis-1,3-Dichloropropene	1.0 U	37.8	50.0	76	39.0	50.0	78	52-134	3	30
m,p-Xylenes	2.0 U	107	100	107	108	100	108	80-126	<1	30
o-Xylene	1.0 U	52.0	50.0	104	53.3	50.0	107	79-123	2	30
trans-1,3-Dichloropropene	1.0 U	35.6	50.0	71	37.2	50.0	74	71-133	4	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2114763-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/17/21 20:55	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/17/21 20:55	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/17/21 20:55	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/17/21 20:55	
2-Hexanone	5.0 U	5.0	0.20	1	11/17/21 20:55	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/17/21 20:55	
Acetone	5.0 U	5.0	5.0	1	11/17/21 20:55	
Benzene	1.0 U	1.0	0.20	1	11/17/21 20:55	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/17/21 20:55	
Bromoform	1.0 U	1.0	0.25	1	11/17/21 20:55	
Bromomethane	1.0 U	1.0	0.70	1	11/17/21 20:55	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/17/21 20:55	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/17/21 20:55	
Chlorobenzene	1.0 U	1.0	0.20	1	11/17/21 20:55	
Chloroethane	1.0 U	1.0	0.23	1	11/17/21 20:55	
Chloroform	1.0 U	1.0	0.24	1	11/17/21 20:55	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/17/21 20:55	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/17/21 20:55	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/17/21 20:55	
Ethylbenzene	1.0 U	1.0	0.20	1	11/17/21 20:55	
Styrene	1.0 U	1.0	0.20	1	11/17/21 20:55	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/17/21 20:55	
Toluene	1.0 U	1.0	0.20	1	11/17/21 20:55	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/17/21 20:55	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/17/21 20:55	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/17/21 20:55	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/17/21 20:55	
o-Xylene	1.0 U	1.0	0.20	1	11/17/21 20:55	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/17/21 20:55	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2114763-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	11/17/21 20:55	
Dibromofluoromethane	105	80 - 116	11/17/21 20:55	
Toluene-d8	108	87 - 121	11/17/21 20:55	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2114855-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	11/18/21 12:00	
1,2-Dichloroethene, Total	2.0 U	2.0	0.35	1	11/18/21 12:00	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	11/18/21 12:00	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	11/18/21 12:00	
2-Hexanone	5.0 U	5.0	0.20	1	11/18/21 12:00	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	11/18/21 12:00	
Acetone	5.0 U	5.0	5.0	1	11/18/21 12:00	
Benzene	1.0 U	1.0	0.20	1	11/18/21 12:00	
Bromodichloromethane	1.0 U	1.0	0.20	1	11/18/21 12:00	
Bromoform	1.0 U	1.0	0.25	1	11/18/21 12:00	
Bromomethane	1.0 U	1.0	0.70	1	11/18/21 12:00	
Carbon Disulfide	1.0 U	1.0	0.42	1	11/18/21 12:00	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	11/18/21 12:00	
Chlorobenzene	1.0 U	1.0	0.20	1	11/18/21 12:00	
Chloroethane	1.0 U	1.0	0.23	1	11/18/21 12:00	
Chloroform	1.0 U	1.0	0.24	1	11/18/21 12:00	
Chloromethane (Methyl Chloride)	1.0 U	1.0	0.28	1	11/18/21 12:00	
Dibromochloromethane	1.0 U	1.0	0.20	1	11/18/21 12:00	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.65	1	11/18/21 12:00	
Ethylbenzene	1.0 U	1.0	0.20	1	11/18/21 12:00	
Styrene	1.0 U	1.0	0.20	1	11/18/21 12:00	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	11/18/21 12:00	
Toluene	1.0 U	1.0	0.20	1	11/18/21 12:00	
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	11/18/21 12:00	
Vinyl Chloride	1.0 U	1.0	0.20	1	11/18/21 12:00	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	11/18/21 12:00	
m,p-Xylenes	2.0 U	2.0	0.20	1	11/18/21 12:00	
o-Xylene	1.0 U	1.0	0.20	1	11/18/21 12:00	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	11/18/21 12:00	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2114855-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	11/18/21 12:00	
Dibromofluoromethane	98	80 - 116	11/18/21 12:00	
Toluene-d8	105	87 - 121	11/18/21 12:00	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/17/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114763-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.1	20.0	100	75-125
1,1,2,2-Tetrachloroethane	8260C	21.7	20.0	108	78-126
1,1,2-Trichloroethane	8260C	20.3	20.0	101	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	21.7	20.0	109	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.4	20.0	102	71-118
1,2-Dichloroethane	8260C	19.9	20.0	99	71-127
1,2-Dichloropropane	8260C	19.3	20.0	96	80-119
2-Butanone (MEK)	8260C	27.4	20.0	137	61-137
2-Hexanone	8260C	24.7	20.0	123	63-124
4-Methyl-2-pentanone	8260C	24.4	20.0	122	66-124
Acetone	8260C	22.4	20.0	112	40-161
Benzene	8260C	20.3	20.0	101	79-119
Bromodichloromethane	8260C	17.7	20.0	89	81-123
Bromoform	8260C	17.1	20.0	85	65-146
Bromomethane	8260C	15.1	20.0	75	42-166
Carbon Disulfide	8260C	20.1	20.0	100	66-128
Carbon Tetrachloride	8260C	17.4	20.0	87	70-127
Chlorobenzene	8260C	21.5	20.0	108	80-121
Chloroethane	8260C	20.0	20.0	100	62-131
Chloroform	8260C	20.5	20.0	103	79-120
Chloromethane (Methyl Chloride)	8260C	26.9	20.0	135	65-135
Dibromochloromethane	8260C	17.3	20.0	86	72-128
Dichloromethane (Methylene Chloride)	8260C	19.5	20.0	97	73-122
Ethylbenzene	8260C	21.7	20.0	109	76-120
Styrene	8260C	21.5	20.0	107	80-124
Tetrachloroethene (PCE)	8260C	20.7	20.0	103	72-125
Toluene	8260C	20.7	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.6	20.0	103	74-122
Vinyl Chloride	8260C	23.3	20.0	117	74-159
cis-1,3-Dichloropropene	8260C	17.4	20.0	87	77-122
m,p-Xylenes	8260C	45.3	40.0	113	80-126
o-Xylene	8260C	22.8	20.0	114	79-123
trans-1,3-Dichloropropene	8260C	15.3	20.0	76	71-133

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/18/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114855-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.5	20.0	93	75-125
1,1,2,2-Tetrachloroethane	8260C	20.2	20.0	101	78-126
1,1,2-Trichloroethane	8260C	19.3	20.0	97	82-121
1,1-Dichloroethane (1,1-DCA)	8260C	19.4	20.0	97	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	20.6	20.0	103	71-118
1,2-Dichloroethane	8260C	17.3	20.0	86	71-127
1,2-Dichloropropane	8260C	20.0	20.0	100	80-119
2-Butanone (MEK)	8260C	17.4	20.0	87	61-137
2-Hexanone	8260C	19.4	20.0	97	63-124
4-Methyl-2-pentanone	8260C	18.0	20.0	90	66-124
Acetone	8260C	15.5	20.0	77	40-161
Benzene	8260C	20.1	20.0	101	79-119
Bromodichloromethane	8260C	17.9	20.0	89	81-123
Bromoform	8260C	18.4	20.0	92	65-146
Bromomethane	8260C	20.9	20.0	105	42-166
Carbon Disulfide	8260C	23.5	20.0	117	66-128
Carbon Tetrachloride	8260C	16.6	20.0	83	70-127
Chlorobenzene	8260C	20.7	20.0	103	80-121
Chloroethane	8260C	21.3	20.0	107	62-131
Chloroform	8260C	18.2	20.0	91	79-120
Chloromethane (Methyl Chloride)	8260C	27.4	20.0	137 *	65-135
Dibromochloromethane	8260C	18.6	20.0	93	72-128
Dichloromethane (Methylene Chloride)	8260C	19.4	20.0	97	73-122
Ethylbenzene	8260C	20.7	20.0	103	76-120
Styrene	8260C	20.5	20.0	103	80-124
Tetrachloroethene (PCE)	8260C	20.4	20.0	102	72-125
Toluene	8260C	20.7	20.0	103	79-119
Trichloroethene (TCE)	8260C	19.7	20.0	98	74-122
Vinyl Chloride	8260C	23.1	20.0	115	74-159
cis-1,3-Dichloropropene	8260C	20.5	20.0	103	77-122
m,p-Xylenes	8260C	42.9	40.0	107	80-126
o-Xylene	8260C	20.7	20.0	104	79-123
trans-1,3-Dichloropropene	8260C	20.4	20.0	102	71-133

Volatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	11/09/21
Sample Matrix:	Water	**Date Received:**	11/09/21
		Date Analyzed:	11/18/21

Duplicate Matrix Spike Summary
Dissolved Gases by GC/FID

Sample Name:	MW-10	**Units:**	ug/L
Lab Code:	R2111850-010	**Basis:**	NA
Analysis Method:	RSK 175		

		Matrix Spike			Duplicate Matrix Spike					
		RQ2114859-07			RQ2114859-08					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Methane	4.3	51.4	52.5	90	51.5	52.5	90	46-143	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ2114859-02	**Basis:**	NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Methane	1.1 U	1.1	1	11/18/21 08:53	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/18/21

Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ2114859-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Methane	RSK 175	26.4	26.2	101	85-115

Metals

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2111850-MB		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Iron, Dissolved	200.7	100	U	ug/L	100	1	11/15/21 22:33	11/12/21	
Manganese, Dissolved	200.7	10	U	ug/L	10	1	11/15/21 22:33	11/12/21	

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request:R2111850
Date Collected:11/09/21
Date Received:11/09/21
Date Analyzed:11/15/21

Duplicate Matrix Spike Summary
Inorganic Parameters

Sample Name: MW-10
Lab Code: R2111850-010

Units:ug/L
Basis:NA

			Matrix Spike R2111850-010MS			Duplicate Matrix Spike R2111850-010DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Iron, Dissolved	200.7	100 U	960	1000	96	1000	1000	100	70-130	4	20
Manganese, Dissolved	200.7	839	1320	500	96	1330	500	97	70-130	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/15/21

Lab Control Sample Summary
Inorganic Parameters

Units:ug/L
Basis:NA

Lab Control Sample
R2111850-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Dissolved	200.7	950	1000	95	85-115
Manganese, Dissolved	200.7	472	500	94	85-115

General Chemistry

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Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2111850-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.10 U	mg/L	0.10	1	11/10/21 08:34	
Nitrite as Nitrogen	300.0	0.10 U	mg/L	0.10	1	11/10/21 08:34	
Sulfate	300.0	0.20 U	mg/L	0.20	1	11/10/21 08:34	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2111850-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Q
Nitrate as Nitrogen	300.0	0.10	U	mg/L	0.10	1	11/10/21 11:21	
Nitrite as Nitrogen	300.0	0.10	U	mg/L	0.10	1	11/10/21 11:21	
Sulfate	300.0	0.20	U	mg/L	0.20	1	11/10/21 11:21	

Analytical Report

Client:	Barton & Loguidice, DPC	**Service Request:**	R2111850
Project:	Nouryon/1398.003.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R2111850-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Sulfate	300.0	0.20 U	mg/L	0.20	1	11/11/21 08:26	

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request:R2111850
Date Collected:11/09/21
Date Received:11/09/21
Date Analyzed:11/10/21 - 11/11/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-4B
Lab Code: R2111850-006

Units:mg/L
Basis:NA

			Matrix Spike R2111850-006MS			Duplicate Matrix Spike R2111850-006DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate as Nitrogen	300.0	1.0 U	9.8	10.0	98	9.5	10.0	95	90-110	3	20
Sulfate	300.0	862	1220	400	89 *	1250	400	97	90-110	3	20
Nitrite as Nitrogen	300.0	1.0 U	9.4	10.0	94	9.1	10.0	91	90-110	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request:R2111850
Date Collected:11/09/21
Date Received:11/09/21
Date Analyzed:11/10/21

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: MW-10
Lab Code: R2111850-010

Units:mg/L
Basis:NA

			Matrix Spike R2111850-010MS			Duplicate Matrix Spike R2111850-010DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate as Nitrogen	300.0	1.7	11.2	10.0	95	11.2	10.0	95	90-110	<1	20
Sulfate	300.0	46.5	64.5	20.0	90	64.1	20.0	88 *	90-110	<1	20
Nitrite as Nitrogen	300.0	1.0 U	9.4	10.0	94	9.4	10.0	94	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/10/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2111850-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.97	1.00	97	90-110
Nitrite as Nitrogen	300.0	0.95	1.00	95	90-110
Sulfate	300.0	1.99	2.00	99	90-110

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/10/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2111850-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate as Nitrogen	300.0	0.97	1.00	97	90-110
Nitrite as Nitrogen	300.0	0.98	1.00	98	90-110
Sulfate	300.0	1.95	2.00	98	90-110

Client: Barton & Loguidice, DPC
Project: Nouryon/1398.003.001
Sample Matrix: Water

Service Request: R2111850
Date Analyzed: 11/11/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R2111850-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfate	300.0	1.96	2.00	98	90-110

Appendix C

NOURYON FUNCTIONAL CHEMICALS, LLC
Water Level Elevation Data
2011-2021

	MW-1		MW-1B		MW-2		MW-3		MW-3B		MW-4	
TOP OF CASING ELEVATION		328.51		328.29		327.58		322.58		321.85		323.12
DATE	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation
4/19/2011	6.41	322.10	7.21	321.08	5.73	321.85	3.14	319.44	10.81	315.42	6.79	316.33
7/28/2011	11.54	316.97	-	-	9.87	317.71	6.80	315.78	-	-	9.58	313.54
11/17/2011	13.09	315.42	7.21	321.08	10.59	316.99	7.13	315.45	10.81	311.04	9.65	313.47
3/28/2012	7.63	320.88	7.09	321.20	6.76	320.82	3.33	319.25	10.98	310.87	7.65	315.47
6/27/2012	10.94	317.57	-	-	9.13	318.45	6.31	316.27	-	-	9.48	313.64
10/9/2012	13.89	314.62	-	-	11.07	316.51	9.35	313.23	-	-	11.46	311.66
4/15/2013	6.02	322.49	6.76	321.53	5.68	321.90	2.66	319.92	10.65	311.20	6.45	316.67
8/27/2013	11.41	317.10	-	-	9.42	318.16	6.23	316.35	-	-	9.61	313.51
12/10/2013	9.78	318.73	-	-	8.29	319.29	3.78	318.80	-	-	7.90	315.22
4/28/2014	6.82	321.69	6.50	321.79	6.10	321.48	2.36	320.22	10.98	310.87	7.28	315.84
8/28/2014	10.73	317.78	-	-	9.01	318.57	5.39	317.19	-	-	9.09	314.03
10/30/2014	11.45	317.06	-	-	10.27	317.31	6.88	315.70	-	-	9.67	313.45
4/29/2015	7.65	320.86	6.83	321.46	6.64	320.94	3.52	319.06	11.20	310.65	7.51	315.61
8/18/2015	11.67	316.84	-	-	9.92	317.66	6.91	315.67	-	-	10.12	313.00
12/10/2015	11.52	316.99	-	-	10.31	317.27	5.92	316.66	-	-	9.73	313.39
6/6/2016	10.01	318.50	8.86	319.43	8.45	319.13	5.28	317.30	11.97	309.88	9.10	314.02
11/22/2016	14.14	314.37	-	-	11.68	315.90	10.80	311.78	-	-	15.28	307.84
5/31/2017	7.45	321.06	7.28	321.01	6.44	321.14	2.83	319.75	10.68	311.17	7.70	315.42
10/16/2017	11.52	316.99	-	-	9.57	318.01	5.25	317.33	-	-	9.46	313.66
6/19/2018	10.08	318.43	8.95	319.34	8.36	319.22	5.29	317.29	12.07	309.78	9.19	313.93
10/10/2018	13.36	315.15	-	-	10.79	316.79	8.50	314.08	-	-	11.11	312.01
6/20/2019	8.69	319.82	8.00	320.29	7.40	320.18	3.87	318.71	11.33	310.52	8.05	315.07
10/29/2019	11.32	317.19	-	-	9.54	318.04	3.34	319.24	-	-	8.42	314.70
6/18/2020	9.92	318.59	8.88	319.41	8.39	319.19	5.08	317.50	11.90	309.95	8.89	314.23
11/12/2020	14.46	314.05	-	-	11.89	315.69	10.18	312.40	-	-	14.71	308.41
6/7/2021	10.23	318.28	9.49	318.80	8.47	319.11	5.33	317.25	11.86	309.99	9.24	313.88
11/8/2021	10.60	317.91	-	-	8.83	318.75	3.21	319.37	-	-	8.25	314.87

NOURYON FUNCTIONAL CHEMICALS, LLC
Water Level Elevation Data
2011-2021

	MW-4B		MW-5		MW-6		MW-7		MW-8		MW-9	
TOP OF PVC PIPE ELEVATION		323.66		324.68		325.31		324.10		326.23		325.03
DATE	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation
4/19/2011	20.18	303.48	8.05	316.63	-	-	-	-	-	-	4.60	320.43
7/28/2011	21.73	301.93	6.71	317.97	-	-	-	-	-	-	7.84	317.19
11/17/2011	16.81	306.85	7.76	316.92	7.79	317.52	6.53	317.57	8.81	317.42	8.60	316.43
3/28/2012	18.52	305.14	3.88	320.80	-	-	-	-	-	-	5.07	319.96
6/27/2012	21.46	302.20	6.33	318.35	-	-	-	-	-	-	7.22	317.81
10/9/2012	18.54	305.12	8.28	316.40	-	-	-	-	-	-	8.88	316.15
4/15/2013	19.21	304.45	3.01	321.67	-	-	-	-	-	-	4.13	320.90
8/27/2013	20.34	303.32	6.58	318.10	-	-	-	-	-	-	7.66	317.37
12/10/2013	16.29	307.37	5.44	319.24	-	-	-	-	-	-	6.64	318.39
4/28/2014	21.00	302.66	3.50	321.18	-	-	-	-	-	-	3.32	321.71
8/28/2014	20.76	302.90	6.21	318.47	-	-	-	-	-	-	7.47	317.56
10/30/2014	18.02	305.64	7.44	317.24	-	-	-	-	-	-	8.43	316.60
4/29/2015	21.10	302.56	3.82	320.86	-	-	-	-	-	-	5.22	319.81
8/18/2015	21.60	302.06	7.20	317.48	-	-	-	-	-	-	8.16	316.87
12/10/2015	16.87	306.79	7.43	317.25	-	-	-	-	-	-	8.38	316.65
6/6/2016	21.61	302.05	5.58	319.10	-	-	-	-	-	-	6.52	318.51
11/22/2016	17.51	306.15	8.92	315.76	-	-	-	-	-	-	9.27	315.76
5/31/2017	21.35	302.31	3.69	320.99	-	-	-	-	-	-	4.53	320.50
10/16/2017	17.87	305.79	6.68	318.00	-	-	-	-	-	-	7.40	317.63
6/19/2018	23.49	300.17	5.46	319.22	-	-	-	-	-	-	6.46	318.57
10/10/2018	19.32	304.34	8.07	316.61	-	-	-	-	-	-	8.53	316.50
6/20/2019	22.77	300.89	4.49	320.19	-	-	-	-	-	-	5.75	319.28
10/29/2019	17.78	305.88	6.68	318.00	-	-	-	-	-	-	7.70	317.33
6/18/2020	22.64	301.02	5.57	319.11	-	-	-	-	-	-	6.71	318.32
11/12/2020	17.89	305.77	9.11	315.57	-	-	-	-	-	-	9.45	315.58
6/7/2021	22.98	300.68	5.64	319.04	-	-	-	-	-	-	6.32	318.71
11/8/2021	17.02	306.64	5.98	318.70	-	-	-	-	-	-	6.85	318.18

NOURYON FUNCTIONAL CHEMICALS, LLC
Water Level Elevation Data
2011-2021

	MW-9B		MW-10		MW-10B		MW-11		MW-11B		-	
TOP OF PVC PIPE ELEVATION		325.21		328.39		328.12		325.76		325.32		
DATE	water level	elevation	water level	elevation	water level	elevation	water level	elevation	water level	elevation		
4/19/2011	23.16	302.05	6.37	322.02	23.51	304.61	10.62	315.14	22.22	303.10		
7/28/2011	24.47	300.74	6.24	322.15	-	-	13.85	311.91	23.66	301.66		
11/17/2011	19.66	305.55	11.38	317.01	23.51	304.61	14.31	311.45	19.12	306.20		
3/28/2012	21.12	304.09	7.47	320.92	21.70	306.42	11.38	314.38	20.45	304.87		
6/27/2012	24.00	301.21	9.77	318.62	-	-	13.35	312.41	23.43	301.89		
10/9/2012	21.26	303.95	11.88	316.51	-	-	15.12	310.64	20.53	304.79		
4/15/2013	22.36	302.85	6.30	322.09	22.40	305.72	10.11	315.65	21.75	303.57		
8/27/2013	22.93	302.28	10.21	318.18	-	-	13.62	312.14	22.29	303.03		
12/10/2013	18.52	306.69	9.02	319.37	-	-	12.64	313.12	18.40	306.92		
4/28/2014	22.82	302.39	7.41	320.98	23.73	304.39	10.96	314.80	22.82	302.50		
8/28/2014	23.20	302.01	9.81	318.58	-	-	13.24	312.52	22.58	302.74		
10/30/2014	20.22	304.99	11.07	317.32	-	-	14.31	311.45	18.96	306.36		
4/29/2015	23.60	301.61	7.32	321.07	22.99	305.13	11.29	314.47	22.85	302.47		
8/18/2015	23.85	301.36	10.70	317.69	-	-	14.18	311.58	23.49	301.83		
12/10/2015	19.15	306.06	11.10	317.29	-	-	13.91	311.85	19.02	306.30		
6/6/2016	23.77	301.44	9.24	319.15	21.22	306.90	12.93	312.83	23.31	302.01		
11/22/2016	19.87	305.34	12.66	315.73	-	-	15.54	310.22	19.57	305.75		
5/31/2017	23.75	301.46	7.17	321.22	20.17	307.95	11.00	314.76	23.00	302.32		
10/16/2017	20.42	304.79	10.32	318.07	-	-	13.59	312.17	19.83	305.49		
6/19/2018	24.96	300.25	9.18	319.21	20.52	307.60	12.54	313.22	24.27	301.05		
10/10/2018	21.92	303.29	11.59	316.80	-	-	14.99	310.77	21.25	304.07		
6/20/2019	25.22	299.99	8.26	320.13	19.74	308.38	11.22	314.54	24.46	300.86		
10/29/2019	20.08	305.13	10.41	317.98	-	-	12.07	313.69	19.77	305.55		
6/18/2020	25.20	300.01	9.18	319.21	19.65	308.47	12.23	313.53	24.34	300.98		
11/12/2020	20.36	304.85	12.91	315.48	-	-	13.41	312.35	19.87	305.45		
6/7/2021	24.92	300.29	9.27	319.12	19.44	308.68	11.88	313.88	24.59	300.73		
11/8/2021	19.72	305.49	9.66	318.73	-	-	11.92	313.84	18.92	306.40		

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