



# 2019 Site Monitoring Report

Former City of Rhinelander Landfill

BRRTS #: 02 44 200967

Rhinelander, Wisconsin





# Table of Contents

|       |  |   |
|-------|--|---|
| 1.    | Introduction.....                              | 1 |
| 1.1   | Location.....                                  | 1 |
| 1.2   | Background.....                                | 1 |
| 1.3   | 2019 Activities.....                           | 1 |
| 2.    | Landfill Inspections.....                      | 1 |
| 2.1   | Grass Cover.....                               | 1 |
| 2.2   | Trespassing and Site Security.....             | 2 |
| 2.3   | Beavers – Area 2 Restoration.....              | 2 |
| 3.    | Phytoremediation/Poplar Tree Cover.....        | 2 |
| 4.    | Surface Water Sampling.....                    | 2 |
| 4.1   | Sampling Dates and Methods.....                | 2 |
| 4.2   | Sample Results.....                            | 2 |
| 5.    | Groundwater Monitoring.....                    | 3 |
| 5.1   | Summary of Groundwater Monitoring Program..... | 3 |
| 5.2   | Hydraulic Monitoring Program.....              | 4 |
| 5.3   | Groundwater Sampling Program.....              | 4 |
| 5.4   | Groundwater Sampling Results.....              | 4 |
| 5.4.1 | VOCs.....                                      | 4 |
| 5.4.2 | Metals.....                                    | 5 |
| 5.4.3 | Other Analytes.....                            | 5 |
| 6.    | Conclusions and Recommendations.....           | 5 |



## Figure Index

|          |  |
|----------|--|
| Figure 1 | Site Location  |
| Figure 2 | Surface Water Sampling Locations                       |
| Figure 3 | Monitoring Well Locations                              |
| Figure 4 | Shallow Groundwater Contours “A” Monitoring Wells      |
| Figure 5 | Intermediate Groundwater Contours “B” Monitoring Wells |
| Figure 6 | Deep Groundwater Elevations “C” Monitoring Wells       |
| Figure 7 | October 2019 WES VOC Exceedances                       |

## Table Index

|         |   |
|---------|---|
| Table 1 | 2019 Surface Water Sample Results             |
| Table 2 | Chloride Results Relative to NR 105 Standards |
| Table 3 | Metals Results Relative to NR 105 Standards   |
| Table 4 | Ammonia Results Relative to NR 105 Standards  |
| Table 5 | Current Monitoring Plan                       |
| Table 6 | 2019 Groundwater Elevations                   |
| Table 7 | Summary of Detected Compounds                 |

## Appendix Index

|            |   |
|------------|---|
| Appendix A | Surface Water Sampling Laboratory Reports and Data Validation |
| Appendix B | Groundwater Sampling Laboratory Reports and Data Validation   |
| Appendix C | Vinyl Chloride Graphs   |



## 1. Introduction

This report presents the results of the groundwater and surface water sampling program, along with the operation and maintenance activities, associated with former City of Rhinelander Landfill (Site). GHD Services Inc. (GHD) completed this report on behalf of the Rhinelander Landfill Group (RLG). The RLG retained GHD in June 2016 to perform the Site maintenance and monitoring activities.

### 1.1 Location

The former Site is located in the NE  $\frac{1}{4}$  of Section 8 in Township 36 North, Range 9 East, Oneida County, Wisconsin. It is located at the confluence of Slaughterhouse Creek and the Pelican River along Old Highway 8. The Site is shown on Figure 1.

### 1.2 Background

The Site was opened in 1939 and ceased accepting waste in 1979. The landfill was closed and capped in 1980. The landfill was owned and operated by the City of Rhinelander throughout the entire 40-year operational period. The landfill is still currently owned by the City of Rhinelander.

### 1.3 2019 Activities

The following activities associated with the Site were conducted in 2019:

- April 29-30: Semi-Annual groundwater sampling of 8 monitoring wells
- April 30: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- May 29: GHD submits semi-annual groundwater monitoring report to the Wisconsin Department of Natural Resources (WDNR)
- May 29: GHD submits semi-annual GEMS data to the WDNR
- July: City of Rhinelander mows the landfill cover
- Sept 24-25: Annual groundwater sampling/monitoring of 22 monitoring wells
- Sept 24: Semi-Annual surface water sampling at three locations in Slaughterhouse Creek
- January 7, 2020: GHD submits semi-annual GEMS data to the WDNR

## 2. Landfill Inspections

A landfill inspection was completed during each of the two sampling events.

### 2.1 Grass Cover

The grass cover on the landfill is in good condition. Mowing was completed by the City of Rhinelander in July 2019.



## 2.2 Trespassing and Site Security

The fence surrounding the landfill is currently in good condition. There are no known trespassing issues for this reporting period.

## 2.3 Beavers – Area 2 Restoration

A small percentage of the Area 2 restoration willow trees have been harvested by beavers. This is especially noted along the water's edge on the north side of the restoration area. Harvested trees are noted to be re-sprouting and no additional effort is planned at this time.

# 3. Phytoremediation/Poplar Tree Cover

The RLG voluntarily planted hybrid poplar trees and willow trees on the north end of the landfill in 1999 and 2000. The trees cover an area of approximately 7-acres. These trees were planted to provide the benefits of phytoremediation to the groundwater and leachate on the north end of the landfill. The hybrid poplar trees are periodically evaluated for overall health and survival. Several fallen trees were observed and end-of-life mortality was noted in a small percentage of the trees.

The RLG sub-contracted a WDNR-Certified Forestry Plan Writer in 2018 to coordinate and oversee a logging contractor who harvested the trees by standard coppice methods. The coppice work included harvesting nearly all above-ground biomass, leaving only the stump and roots behind. During subsequent landfill inspections, it was noted that new growth was reemerging from the existing stumps and roots. The new growth is expected to continue the phytoremediation process.

# 4. Surface Water Sampling

## 4.1 Sampling Dates and Methods

Two rounds of surface water sampling were conducted in Slaughterhouse Creek in 2019: one in April and one in September. Samples were collected from the following locations and are presented on Figure 2:

- Upstream of the Site near the old Slaughterhouse (SW-10)
- Downstream of the landfill at the Newell Street Bridge (SW-20).
- At the toe of the Area 2 Restoration project (SW-28).

## 4.2 Sample Results

Surface water results from this period are shown in Table 1. Most or all the results from this period are similar or within the normal range of variability when compared to prior sampling dates. Surface water laboratory reports, along with the Data Validation Memos, for this period are in Appendix A.

Chloride, ammonia, copper, lead, and zinc have established surface water quality standards as enumerated in Chapter NR 105, Wisc. Admin Code (NR 105). None of the 2019 results showed an exceedance of any applicable standard as expressed in NR 105 with the exception of ammonia at the SW-28 location. The discussion in this section compares the results to their codified NR 105



standards. In order to do this, certain field parameters (pH and temperature for ammonia/ammonium and hardness for metals) need to be considered in making the comparison to the standards. Comparisons of values using straight concentration comparisons are not valid for NR 105 exceedance evaluation for certain substances.

Chloride concentrations varied little among the five samples analyzed in 2019, ranging from 33.2 mg/L to 59.8 mg/L. The acute chloride toxicity surface water quality criteria, as listed in Table 1 of NR 105, is 757 mg/L. The chronic chloride standard for warm water sportfish is 395 mg/L, as listed in Table 5 of NR 105. Table 2 shows the chloride data relative to the applicable NR 105 standards.

Zinc, copper, and lead were detected some of the six surface water samples collected in 2019. All detected concentrations were estimated (J) values with a range from 4.0J µg/L to 18.0J µg/L. No metals results exceeded their respective standards relative to their applicable standard (analysis for zinc, copper, and lead) listed in Table 2 and Table 6 of NR 105. Table 3 shows the lead, zinc, and copper data relative to Table 2 and Table 6 of the NR 105 applicable standards.

Ammonia is regulated under Table 2C (acute toxicity), Table 4B (30-day chronic), and Table 4B (4-day chronic toxicity) of NR 105. The applicable standard is based on the temperature and pH of the sample water, and thus results from point to point or round to round are not directly comparable based on total concentrations. In September 2019, the sample collected from SW-28 (Area 2 Restoration) exceeded the calculated standards from Table 2C and Table 4B. No other samples had concentrations above the acute or chronic standards. The last exceedance for ammonia at SW-28 was in 2013. The surface water locations will be sampled again in April 2020. Table 4 shows the ammonia data relative to the applicable NR 105 standards.

## 5. Groundwater Monitoring

### 5.1 Summary of Groundwater Monitoring Program

Figure 3 presents the network of monitoring wells identified for groundwater monitoring. The groundwater monitoring well network consists of a total of 35 wells, of which 23 are part of the monitoring program. These wells are screened in the upper, middle, and lower portions of the shallow regional aquifer.

Table 5 summarizes the sampling locations in the monitoring plan, and illustrates any changes to the monitoring plan that have occurred during the monitoring period.

During this reporting period, groundwater monitoring was conducted in April and September. The April 2019 sample round consisted of collecting samples from nine monitoring wells. One well, MW-28A, was unable to be sampled due to spring flooding. The September 2019 round consisted of collecting samples from 20 monitoring wells. One well, MW-3A, was unable to be sampled in the September due to not being able to locate the well.

Monitoring well locations were sampled for analysis of volatile organic compounds (VOCs) + tetrahydrofuran, select dissolved metals, hardness, chloride, and, alkalinity. Select wells were sampled for ammonia/kjeldahl (TKN) nitrogen. Field parameters included in the sampling are pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity.



## 5.2 Hydraulic Monitoring Program

During this reporting period, GHD collected a water level measurement from each monitoring well during the annual fall sampling round. September 2019 groundwater contours for the upper "A" and middle "B" wells are presented on Figures 4 and 5. Groundwater elevations for the deep "C" wells are presented on Figure 6. Not enough data points were present to contour the "C" elevations. Table 6 presents the groundwater elevations for the September 2019 monitoring event.

Groundwater flow directions for the "A" and "B" wells exhibit a radial flow direction from the landfill to the surface water features located to northwest (Slaughterhouse Creek) and southwest (Pelican River). Groundwater flows from the landfill towards Slaughterhouse Creek to the north and towards the Pelican River to the southwest. The low vertical gradients indicate that groundwater flow is predominantly horizontal with minimal vertical movement.

## 5.3 Groundwater Sampling Program

Groundwater sampling was conducted in accordance with the April 29, 2016 letter from the WDNR to the RLG. Sampling methods are in accordance with the WDNR Groundwater Sampling Field Manual. Table 5 summarizes the monitoring well sampling events.

Samples were collected immediately after purging. Samples were placed in iced coolers and shipped via standard chain of custody procedures to Pace Analytical Laboratories in Green Bay, Wisconsin.

Appendix B contains a copy of the laboratory reports associated with the 2019 groundwater sampling events. A copy of the data quality assessments and validation memos are also provided in Appendix B.

Table 7 provides a summary of detected compounds in monitoring wells sampled during the April and September 2019 sampling events.

## 5.4 Groundwater Sampling Results

The analytical results from the 2019 sampling events, along with the previous two years, are presented on Table 7. The groundwater sampling results from 2019 are consistent with historical results. Groundwater laboratory reports, along with the Data Validation Memos, for this period are in Appendix B.

### 5.4.1 VOCs

Four VOCs exceeded their respective Wisconsin Enforcement Standard (WES) in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, trichloroethene (TCE), and vinyl chloride.

Benzene results exceeded the WES at one location (MW-2A). Tetrahydrofuran results exceeded the WES at two locations (MW-2A and MW-21A). TCE results exceeded the WES at two locations (MW-18B and MW-18C). Vinyl chloride results exceeded the WES at eleven locations (MW-2B,





MW-16A, MW-16B, MW-16C, MW-18A, MW-20B, MW-20C, MW-25B, MW-26B, MW-26C, and MW-28A).

The VOC exceedances, along with the concentrations for the September 2019 monitoring event, are presented on Figure 7. Graphs of vinyl chloride concentrations over time at select well nests are provided in Appendix C.

#### 5.4.2 Metals

Three dissolved metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese.

Boron results exceeded the WES at two locations: MW-2A and MW-21A.

Iron results exceeded the WES at 13 locations: MW-2A, MW-2B, MW-16A, MW-16B, MW-16C, MW-18A, MW-20A, MW-20B, MW-20C, MW-21A, MW-26B, MW-26C, and MW-28A.

Manganese results exceeded the WES at 17 locations: MW-2A, MW-2B, MW-5A, MW-16A, MW-16B, MW-16C, MW-18A, MW-18B, MW-18C, MW-20A, MW-20B, MW-20C, MW-21A, MW-26B, MW-26C, MW-27B, and MW-28A.

#### 5.4.3 Other Analytes

Two other analytes exceeded the WES in the monitoring well samples collected during this reporting period: ammonia and chloride. Ammonia results exceeded the WES at two locations (MW-2A and MW-21A). Chloride results exceeded the WES at one location (MW-5A).

## 6. Conclusions and Recommendations

Based on the 2019 surface water and groundwater sampling activities, the following conclusions are made:

- Ammonia exceeded the NR 105 standards in the SW-28 sample from the September 2019 sampling event. No other sample results from the 2019 surface water sampling events indicated an exceedance of any applicable standard.
- Other typical landfill parameters (ammonia and chloride) are present in groundwater but are not impacting the adjacent surface water.
- Groundwater exhibits a radial flow direction from the landfill towards Slaughterhouse Creek to the north and towards the Pelican River to the southwest.
- Four VOCs exceeded their respective WES in monitoring well samples collected during this reporting period: benzene, tetrahydrofuran, TCE, and vinyl chloride.
- Three dissolved metals exceeded their respective WES in monitoring well samples collected during this reporting period: boron, iron, and manganese.
- Two other analytes exceeded the WES in the monitoring well samples collected during this reporting period: ammonia and chloride.
- The groundwater sampling results from 2019 are consistent with historical results.



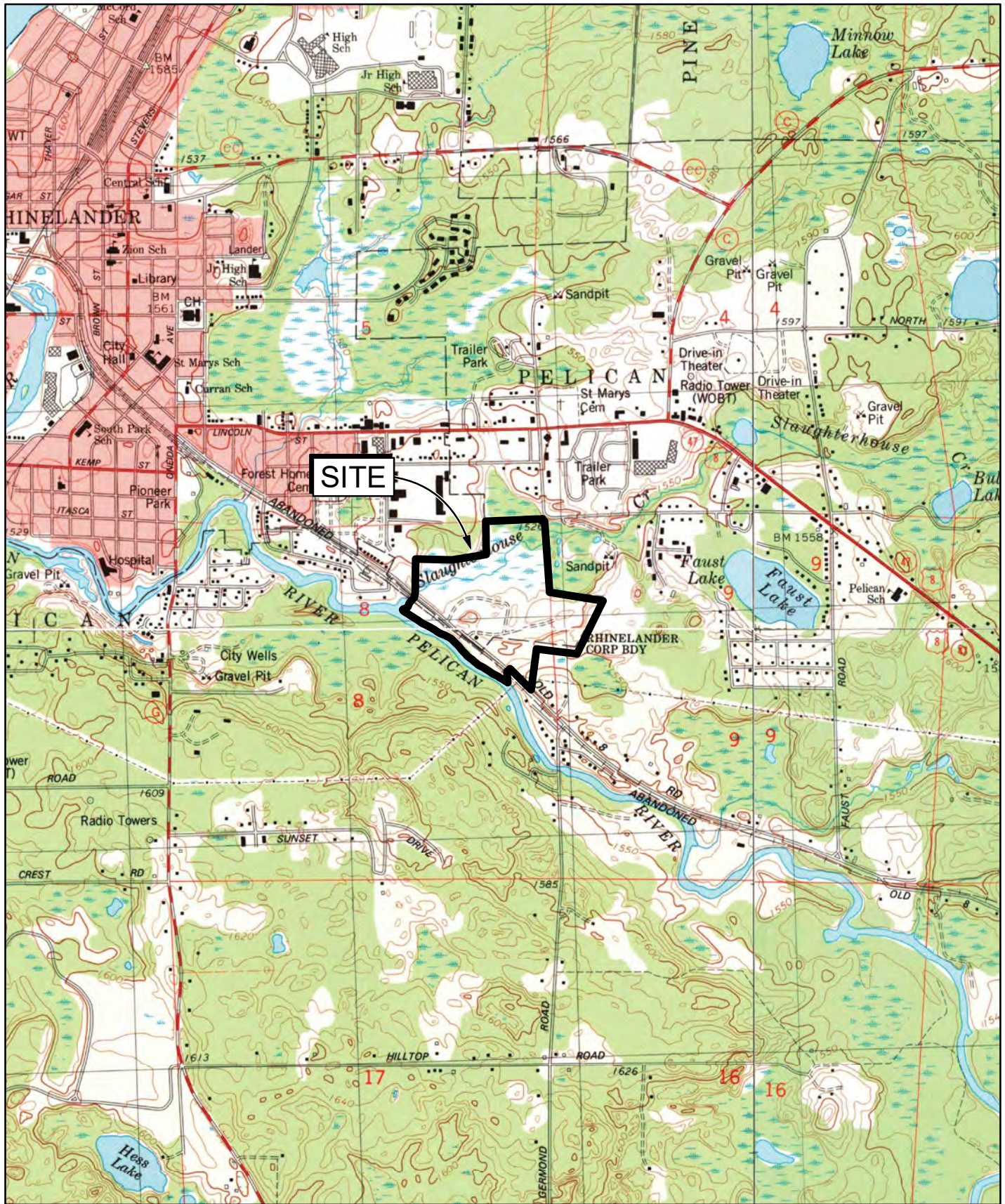


- The elevated levels of iron and manganese are attributed to naturally occurring conditions.
- VOCs are sporadically present at low concentrations and do not indicate the presence of a plume emanating from the Site and impacting surface waters.

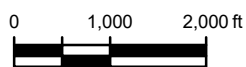
Based on the conclusions stated above, GHD, on behalf of the RLG, recommends the following:

- Continue the semi-annual monitoring of the surface water as outlined in Table 5.
- Reduce the amount of analytes collected during the semi-annual and annual sampling rounds. Currently, GHD samples for VOCs + tetrahydrofuran, alkalinity, chloride, hardness, dissolved metals, ammonia, and TKN. Moving forward, GHD recommends only sampling for VOCs + tetrahydrofuran, and ammonia and TKN, in select wells. The RLG has over twenty years of data indicating consistent levels of alkalinity, chloride, hardness, and dissolved metals. As presented in Table 7, alkalinity, chloride, hardness, and dissolved metals have shown consistent values since 2016. GHD believes that after 20 years of monitoring a comprehensive and consistent database has been established for these parameters, which show a steady state condition. Hence, sampling for these analytes provides no added benefit and is no longer necessary.





Source: USGS 7.5 Minute Topos - Rhinelander; Moen Lake; Lake Julia; George Lake



FORMER CITY OF RHINELANDER LANDFILL  
 RHINELANDER, WISCONSIN  
 2019 SITE MONITORING REPORT

11115796-50  
 Dec 18, 2019

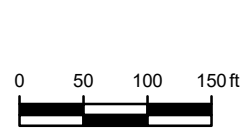
SITE LOCATION

FIGURE 1





Source: Sand Creek Consultants, Inc.; Oneida County GIS



**LEGEND**

- ✕ SURFACE WATER SAMPLING LOCATION
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY



FORMER CITY OF RHINELANDER LANDFILL  
RHINELANDER, WISCONSIN  
2019 SITE MONITORING REPORT

**SURFACE WATER SAMPLING LOCATIONS**

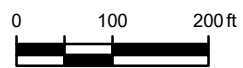
11115796-50  
Dec 18, 2019

**FIGURE 2**





Source: Sand Creek Consultants, Inc.; Oneida County GIS



**LEGEND**

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- APPROXIMATE EDGE OF WASTE
- SITE PROPERTY BOUNDARY



FORMER CITY OF RHINELANDER LANDFILL  
 RHINELANDER, WISCONSIN  
 2019 SITE MONITORING REPORT

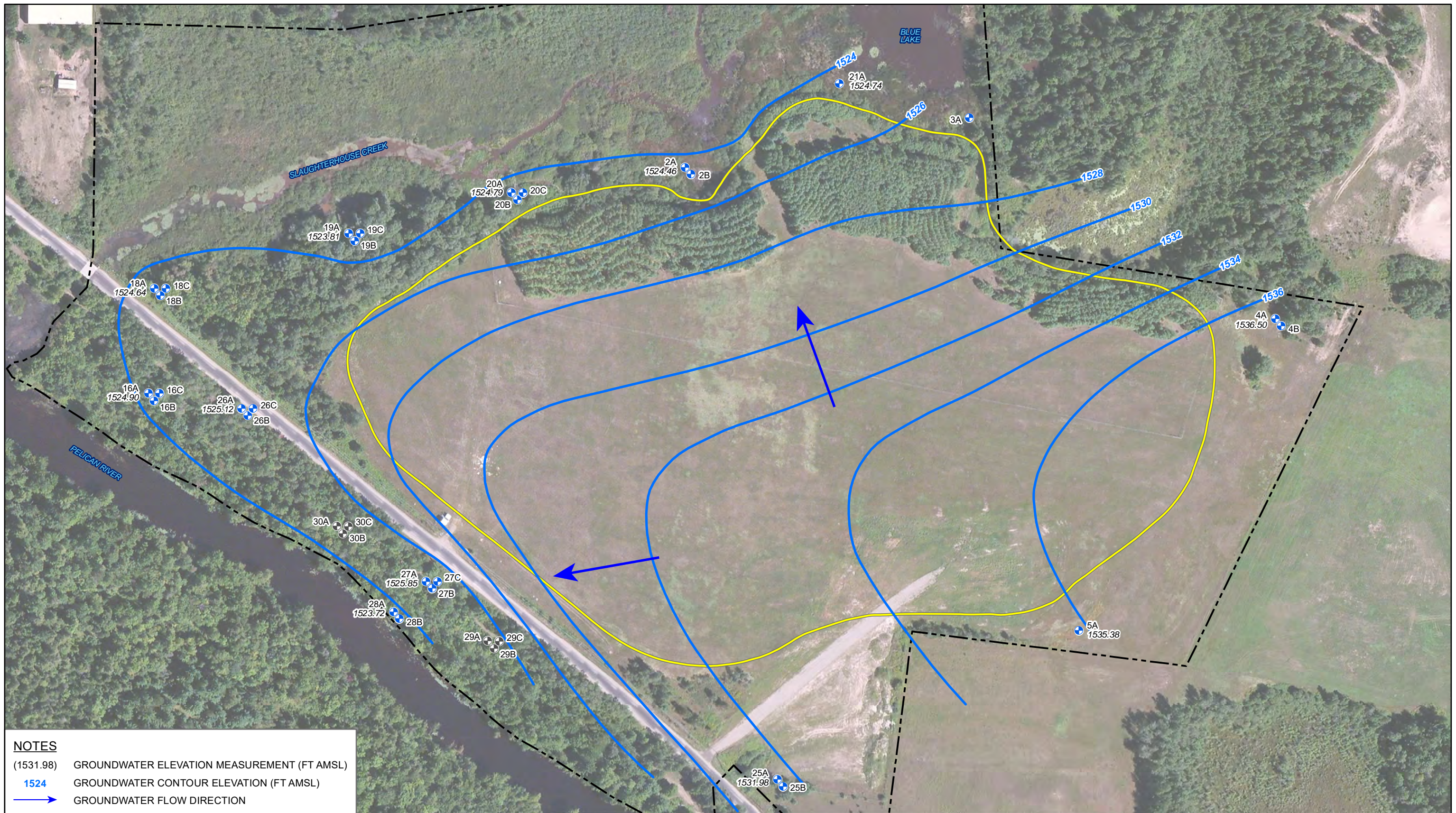
**MONITORING WELL LOCATIONS**


11115796-50

Dec 18, 2019

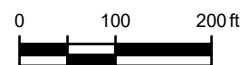
**FIGURE 3**









**NOTES**  
 (1531.98) GROUNDWATER ELEVATION MEASUREMENT (FT AMSL)  
 1524 GROUNDWATER CONTOUR ELEVATION (FT AMSL)  
 GROUNDWATER FLOW DIRECTION

Source: Sand Creek Consultants, Inc.; Oneida County GIS



**LEGEND**

-  MONITORING WELL LOCATION
-  MONITORING WELL (NOT PART OF MONITORING NETWORK)
-  GROUNDWATER CONTOUR (FT AMSL)
-  APPROXIMATE EDGE OF WASTE

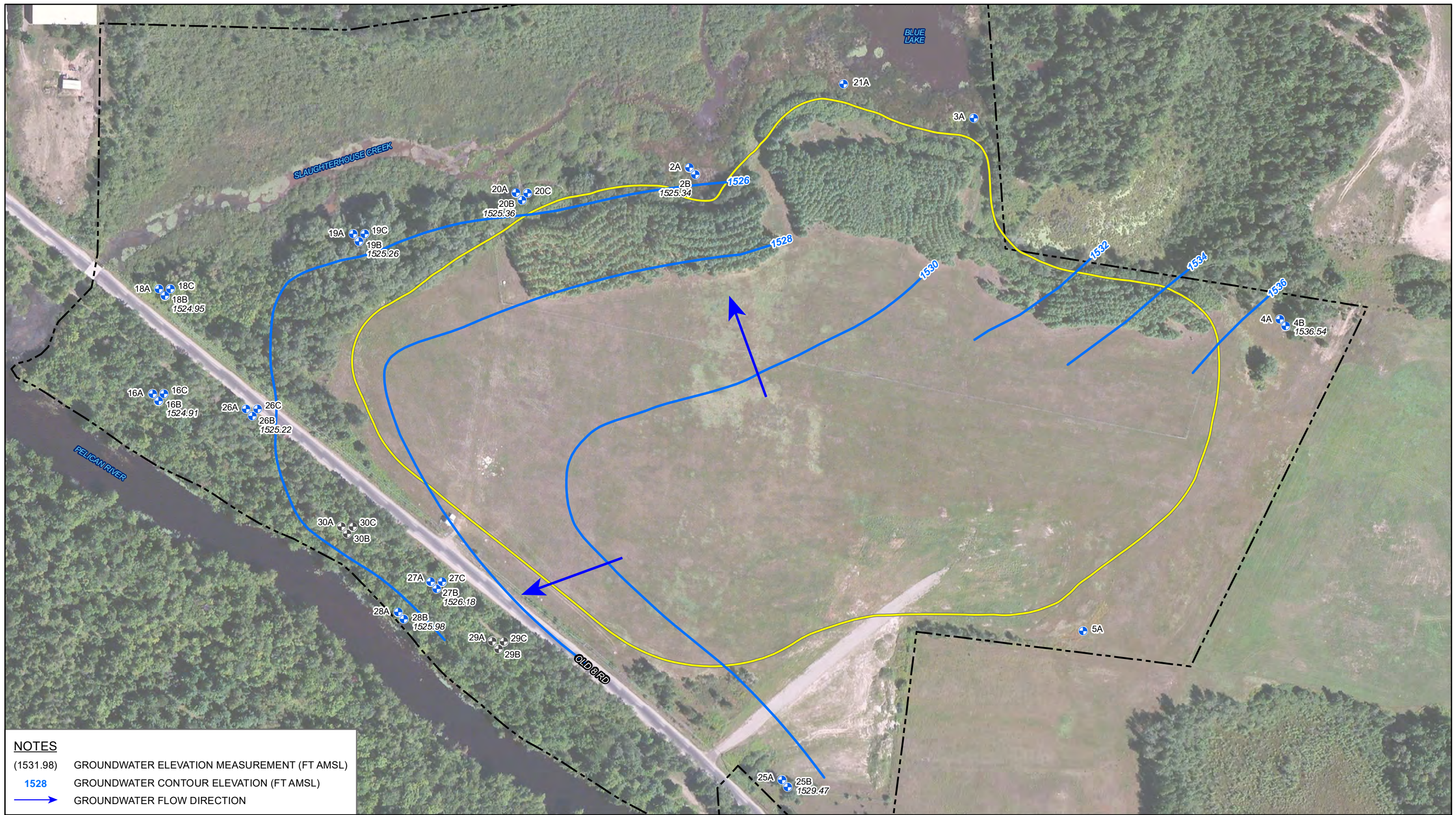


FORMER CITY OF RHINELANDER LANDFILL  
 RHINELANDER, WISCONSIN  
 2019 SITE MONITORING REPORT  
**SHALLOW GROUNDWATER CONTOURS  
 "A" MONITORING WELLS**

11115796-50  
 Jan 22, 2020

**FIGURE 4**





**NOTES**  
 (1531.98) GROUNDWATER ELEVATION MEASUREMENT (FT AMSL)  
 1528 GROUNDWATER CONTOUR ELEVATION (FT AMSL)  
 → GROUNDWATER FLOW DIRECTION

Source: Sand Creek Consultants, Inc.; Oneida County GIS



**LEGEND**

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- GROUNDWATER CONTOUR (FT AMSL)
- APPROXIMATE EDGE OF WASTE



FORMER CITY OF RHINELANDER LANDFILL  
 RHINELANDER, WISCONSIN  
 2019 SITE MONITORING REPORT  
**INTERMEDIATE GROUNDWATER CONTOURS  
 "B" MONITORING WELLS**

11115796-50

Jan 22, 2020

**FIGURE 5**



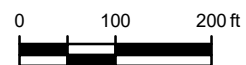






- NOTES**
- 1.4 VINYL CHLORIDE CONCENTRATION (µg/L)
  - 7.5 TRICHLOROETHENE CONCENTRATION (µg/L)
  - 90.1 TETRAHYDROFURAN CONCENTRATION (µg/L)
  - 17.7 BENZENE CONCENTRATION (µg/L)

Source: Sand Creek Consultants, Inc.; Oneida County GIS



**LEGEND**

- MONITORING WELL LOCATION
- MONITORING WELL (NOT PART OF MONITORING NETWORK)
- ▭ APPROXIMATE EDGE OF WASTE
- ▭ SITE PROPERTY BOUNDARY



FORMER CITY OF RHINELANDER LANDFILL  
 RHINELANDER, WISCONSIN  
 2019 SITE MONITORING REPORT

SEPTEMBER 2019 WES VOC EXCEEDANCES

11115796-50

Jan 21, 2020

FIGURE 7



**2019 Surface Water Sample Results  
Former City of Rhinelander Landfill - Slaughterhouse Creek  
Rhinelander, Wisconsin**

| Sample Location:<br>Sample Date: | Unit      | Upstream          |                   | Downstream        |                   | Near Seep         |                   |
|----------------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
|                                  |           | SW-10<br>04/30/19 | SW-10<br>09/24/19 | SW-20<br>04/30/19 | SW-20<br>09/24/19 | SW-28<br>04/30/19 | SW-28<br>09/24/19 |
| <b>Parameters</b>                |           |                   |                   |                   |                   |                   |                   |
| <b>Metals</b>                    |           |                   |                   |                   |                   |                   |                   |
| Hardness                         | mg/L      | 41.7              | 66.9              | 45.4              | 101               | 49.4              | 278               |
| Copper                           | µg/L      | < 6.3             | < 3.4             | < 6.3             | < 3.4             | < 6.3             | 4.0 J             |
| Iron                             | µg/L      | 2,650             | 5,150             | 2,280             | 5,320             | 2,760             | 12,900            |
| Lead                             | µg/L      | 7.6 J             | < 5.9             | < 5.9             | < 5.9             | 6.1 J             | < 5.9             |
| Sodium                           | µg/L      | 17,900            | 21,200            | 21,100            | 25,300            | 20,000            | 40,200            |
| Zinc                             | µg/L      | 18.0 J            | < 11.6            | < 11.6            | 12.4 J            | 13.6 J            | < 11.6            |
| <b>General Chemistry</b>         |           |                   |                   |                   |                   |                   |                   |
| Fecal coliform bacteria          | cfu/100mL | 28                | 29.40             | 2.0               | 29.3              | 5.71              | 18.0              |
| Ammonia                          | mg/L      | < 0.25            | < 0.25            | < 0.25            | 1.2               | < 0.25            | 87.7              |
| Chemical oxygen demand (COD)     | mg/L      | 30.4 J            | 30.4 J            | 25.2 J            | 19.7 J            | 29.7 J            | 90.6              |
| Chloride                         | mg/L      | 42.4              | 42.8              | 44.2              | 59.8              | 46.5              | 33.2              |
| Nitrite/Nitrate                  | mg/L      | 0.12 J            | 0.10 J            | 0.14 J            | 0.23 J            | 0.13 J            | 0.21 J            |
| Total kjeldahl nitrogen (TKN)    | mg/L      | 0.78              | 0.48 J            | 0.51 J            | 1.6               | 0.63 J            | 80.2              |
| Turbidity                        | NTU       | 12.3              | -                 | 9.1               | -                 | 12.0              | -                 |
| <b>Field Data</b>                |           |                   |                   |                   |                   |                   |                   |
| Temperature                      | ° C       | 5.35              | 15.05             | 6.18              | 17.60             | 5.81              | 18.31             |
| pH                               | SU        | 7.25              | 8.13              | 7.42              | 8.07              | 7.29              | 6.70              |
| Conductivity                     | µS        | 236               | 267               | 247               | 417               | 263               | 203               |
| Dissolved Oxygen                 | mg/L      | 7.91              | 1.32              | 5.68              | 0.00              | 5.24              | 0.00              |
| Oxidation Reduction Potential    | mV        | 24                | -2                | -11               | -32               | 10                | -46               |
| Turbidity                        | NTU       | 31.0              | 36.1              | 16.8              | 10.2              | 19                | 457               |

**Chloride Results Relative to NR 105 Standards  
Former City of Rhinelander Landfill - Slaughterhouse Creek  
Rhinelander, Wisconsin**

| <b>Sample Location</b> | <b>Sample Date</b> | <b>Parameter</b> | <b>Units</b> | <b>Result</b> | <b>WWSF Table 1<br/>Standard</b> | <b>WWSF Table 5<br/>Standard</b> |
|------------------------|--------------------|------------------|--------------|---------------|----------------------------------|----------------------------------|
| SW-10                  | 4/30/2019          | Chloride         | mg/L         | 42.4          | 757                              | 395                              |
| SW-10                  | 9/24/2019          | Chloride         | mg/L         | 42.8          | 757                              | 395                              |
| SW-20                  | 4/30/2019          | Chloride         | mg/L         | 44.2          | 757                              | 395                              |
| SW-20                  | 9/24/2019          | Chloride         | mg/L         | 59.8          | 757                              | 395                              |
| SW-28                  | 4/30/2019          | Chloride         | mg/L         | 46.5          | 757                              | 395                              |
| SW-28                  | 9/24/2019          | Chloride         | mg/L         | 33.2          | 757                              | 395                              |

Notes:

- mg/L - Milligram per liter
- WWSF - Warm water sportfish

Table 3

**Metals Results Relative to NR 105 Standards  
Former City of Rhinelander Landfill - Slaughterhouse Creek  
Rhinelander, Wisconsin**

| Sample Location | Sample Date | Parameter | Units | Result | WWSF Table 2<br>Calculated<br>Standard | WWSF Table 6<br>Calculated<br>Standard |
|-----------------|-------------|-----------|-------|--------|--|--|
| SW-10           | 4/30/2019   | Copper    | µg/L  | < 6.3  | 6.8                                    | 4.9                                    |
| SW-10           | 4/30/2019   | Lead      | µg/L  | 7.6 J  | 45.93                                  | 12.03                                  |
| SW-10           | 4/30/2019   | Zinc      | µg/L  | 18.0 J | 56.02                                  | 56.02                                  |
| SW-10           | 9/24/2019   | Copper    | µg/L  | < 3.4  | 10.62                                  | 7.34                                   |
| SW-10           | 9/24/2019   | Lead      | µg/L  | < 5.9  | 72.51                                  | 18.99                                  |
| SW-10           | 9/24/2019   | Zinc      | µg/L  | < 11.6 | 84.7                                   | 84.7                                   |
| SW-20           | 4/30/2019   | Copper    | µg/L  | < 6.3  | 7.36                                   | 5.27                                   |
| SW-20           | 4/30/2019   | Lead      | µg/L  | < 5.9  | 49.86                                  | 13.06                                  |
| SW-20           | 4/30/2019   | Zinc      | µg/L  | < 11.6 | 60.34                                  | 60.34                                  |
| SW-20           | 9/24/2019   | Copper    | µg/L  | < 3.4  | 15.66                                  | 10.44                                  |
| SW-20           | 9/24/2019   | Lead      | µg/L  | < 5.9  | 107.96                                 | 28.28                                  |
| SW-20           | 9/24/2019   | Zinc      | µg/L  | 12.4 J | 121.43                                 | 121.43                                 |
| SW-28           | 4/30/2019   | Copper    | µg/L  | < 6.3  | 7.98                                   | 5.66                                   |
| SW-28           | 4/30/2019   | Lead      | µg/L  | 6.1 J  | 54.09                                  | 14.17                                  |
| SW-28           | 4/30/2019   | Zinc      | µg/L  | 13.6 J | 64.97                                  | 64.97                                  |
| SW-28           | 9/24/2019   | Copper    | µg/L  | 4.0 J  | 40.72                                  | 24.83                                  |
| SW-28           | 9/24/2019   | Lead      | µg/L  | < 5.9  | 287.15                                 | 75.21                                  |
| SW-28           | 9/24/2019   | Zinc      | µg/L  | < 11.6 | 294.35                                 | 294.35                                 |

Notes:

- µg/L - Milligram per liter
- WWSF - Warm water sportfish

**Table 4**

**Ammonia Results Relative to NR 105 Standards  
Former City of Rhinelander Landfill - Slaughterhouse Creek  
Rhinelander, Wisconsin**

| Sample Location | Sample Date | Parameter | Units | Result | Temperature (°C) | pH   | WWSF Table 2C    | WWSF Table 4B     | WWSF Table 4B |
|-----------------|-------------|-----------|-------|--------|------------------|------|------------------|-------------------|---------------|
|                 |             |           |       |        |                  |      | Acute Calculated | 30-Day Calculated | Ammonia 4-Day |
|                 |             |           |       |        |                  |      | Standard         | Standard          | Standard      |
| SW-10           | 4/30/2019   | Ammonia   | mg/L  | < 0.25 | 5.35             | 7.25 | 27.87            | 8.50              | 21.26         |
| SW-10           | 9/24/2019   | Ammonia   | mg/L  | < 0.25 | 15.05            | 8.13 | 6.56             | 1.93              | 4.84          |
| SW-20           | 4/30/2019   | Ammonia   | mg/L  | < 0.25 | 6.18             | 7.42 | 22.34            | 7.57              | 18.92         |
| SW-20           | 9/24/2019   | Ammonia   | mg/L  | 1.2    | 17.60            | 8.07 | 7.36             | 1.80              | 4.50          |
| SW-28           | 4/30/2019   | Ammonia   | mg/L  | < 0.25 | 5.81             | 7.29 | 26.54            | 8.30              | 20.74         |
| SW-28           | 9/24/2019   | Ammonia   | mg/L  | 87.7   | 18.31            | 6.70 | 44.57            | 5.05              | 12.61         |

Notes:

- mg/L - Milligram per liter
- WWSF - Warm water sportfish

Table 5

**Current Monitoring Plan  
Rhineland Landfill  
Rhineland, Wisconsin**

| Sample Matrix                           | Field Parameters                                  | Laboratory Parameters   | Investigative Samples | QA Samples <sup>(1)</sup> |                  |                   |                    | Total Per Round | Current Sampling Frequency |
|---|---|---|-----------------------|---------------------------|------------------|-------------------|--------------------|-----------------|----------------------------|
|   |   |   |                       | Field Blanks              | Field Duplicates | MS <sup>(2)</sup> | MSD <sup>(2)</sup> |                 |                            |
| <b>Groundwater</b>                      |   |   |                       |                           |                  |                   |                    |                 |                            |
| <b>Semi-Annual Wells</b> <sup>(3)</sup> | pH, Temperature, Conductivity, DO, Turbidity, ORP | VOCs+tetrahydrofuran, Alkalinity, Chloride, Hardness, Dissolved Metals <sup>(6)(7)</sup> , Ammonia-N <sup>(8)</sup> , Kjeldahl-N <sup>(8)</sup> | 9                     | 1                         | 1                | 1                 | 1                  | 13              | Semi-Annually              |
| <b>Annual Wells</b> <sup>(4)(5)</sup>   | pH, Temperature, Conductivity, DO, Turbidity, ORP | VOCs+tetrahydrofuran, Alkalinity, Chloride, Hardness, Dissolved Metals <sup>(6)(7)</sup> , Ammonia-N <sup>(8)</sup> , Kjeldahl-N <sup>(8)</sup> | 11                    | 1                         | 1                | -                 | -                  | 13              | Annually                   |
| <b>Surface Water</b>                    |   |   |                       |                           |                  |                   |                    |                 |                            |
| <b>Surface Water</b> <sup>(9)</sup>     | pH, Temperature, Conductivity, DO, Turbidity, ORP | Fecal Coliform, Ammonia, Kjeldahl-N, NO <sub>3</sub> +NO <sub>2</sub> , COD, Chloride, Turbidity, Cu, Fe, Pb, Na, Zn, Hardness                  | 3                     | -                         | -                | -                 | -                  | 3               | Semi-Annually              |

## Notes:

- Semi-Annual sampling will occur in April and October.
- Annual sampling will occur in October (along with a complete round of water level measurements).

- 1 One trip blank, which consists of a filled 40-mL preserved glass vial, shall be shipped with each cooler of VOC water samples.
- 2 For MS/MSD samples within a water matrix, triple the normal sample volumes will be collected.
- 3 Semi-Annual Wells currently include: 2A, 2B, 16A, 16B, 16C, 20A, 20B, 20C, 28A
- 4 Annual Wells currently include: 3A, 4A, 5A, 18A, 18B, 18C, 21A, 25B, 26B, 26C, 27B
- 5 Field Parameters are recorded for the following annual wells but are not sampled - 19B, 19C, 28B
- 6 Dissolved Metals will be field filtered and include Iron, Manganese, and Boron
- 7 Only the following wells are sampled for dissolved Boron - 2A, 4A, 5A, 18C, 20A, 21A, 25B, 28A
- 8 Only the following wells are sampled for Ammonia-N and Kjeldahl-N - 2A, 3A, 21A
- 9 Upstream (Sample Point 10), Area 2 Restoration (Sample Point 28), Downstream at Newell St. Bridge (Sample Point 20)

Table 6

**2019 Groundwater Elevation Summary  
Rhinelanders Landfill  
Rhinelanders, Wisconsin**

| Monitoring Well | Top of Casing<br>Elevation | <u>Groundwater Elevation</u> |
|-----------------|----------------------------|------------------------------|
|                 |                            | September 2019               |
| MW2A            | 1527.01                    | 1524.46                      |
| MW2B            | 1528.04                    | 1525.34                      |
| MW3A            | 1527.02                    | NA                           |
| MW4A            | 1551.28                    | 1536.50                      |
| MW4B            | 1549.99                    | 1536.54                      |
| MW5A            | 1549.13                    | 1535.80                      |
| MW16A           | 1533.07                    | 1524.90                      |
| MW16B           | 1532.85                    | 1524.91                      |
| MW16C           | 1533.09                    | 1524.94                      |
| MW18A           | 1529.83                    | 1524.64                      |
| MW18B           | 1529.83                    | 1524.95                      |
| MW18C           | 1529.76                    | 1524.88                      |
| MW19A           | 1531.91                    | 1523.81                      |
| MW19B           | 1532.16                    | 1525.26                      |
| MW19C           | 1532.04                    | 1525.35                      |
| MW20A           | 1529.35                    | 1524.79                      |
| MW20B           | 1530.56                    | 1525.36                      |
| MW20C           | 1530.34                    | 1525.45                      |
| MW21A           | 1528.42                    | 1524.74                      |
| MW25A           | 1544.85                    | 1531.98                      |
| MW25B           | 1545.18                    | 1529.47                      |
| MW26A           | 1529.95                    | 1525.12                      |
| MW26B           | 1529.21                    | 1525.22                      |
| MW26C           | 1530.06                    | 1524.99                      |
| MW27A           | 1537.44                    | 1525.85                      |
| MW27B           | 1536.52                    | 1526.18                      |
| MW27C           | 1536.79                    | 1527.29                      |
| MW28A           | 1529.04                    | 1523.72                      |
| MW28B           | 1528.33                    | 1525.98                      |

## Notes:

All elevations in feet above mean sea level (AMSL)  
NA - Water level not collected in September 2019



Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Boron (dissolved) | Hardness, calculation | Iron (dissolved) | Manganese (dissolved) | Alkalinity, total (as CaCO3) | Ammonia | Chloride | Total kjeldahl nitrogen (TKN) | 1,1-Dichloroethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,2-Dichlorobenzene | 1,2-Dichloropropane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloromethane (Methyl chloride) | cis-1,2-Dichloroethene | Cymene (p-Isopropyltoluene) |
|----------|------------|---------------------|-------------------|-----------------------|------------------|-----------------------|------------------------------|---------|----------|-------------------------------|--------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------|---------------|---------------------------------|------------------------|-----------------------------|
|          |            |                     | ug/L              | mg/L                  | ug/L             | ug/L                  | mg/L                         | mg/L    | mg/L     | mg/L                          | mg/L               | ug/L                   | ug/L                   | ug/L                | ug/L                | ug/L                | ug/L    | ug/L          | ug/L                            | ug/L                   | ug/L                        |
|          |            |                     | 1000              | --                    | 300              | 50                    | --                           | 9.7     | 250      | --                            | 850                | 480                    | --                     | 600                 | 5                   | 75                  | 5       | 100           | 30                              | 70                     | --                          |
|          |            |                     | 200               | --                    | 150              | 25                    | --                           | 0.97    | --       | --                            | 85                 | 96                     | --                     | 60                  | 0.5                 | 15                  | 0.5     | --            | 3                               | 7                      | --                          |
| MW-2A    | 6/30/2016  |                     | 1900              | 1080                  | 64200            | 676                   | 2300                         | 287     | 67.5     | 284                           | < 1.23             | 4.2 J                  | 3.2 J                  | < 5.0               | < 5.0               | < 5.0               | 34.6    | < 5.0         | < 5.0                           | < 5.0                  | < 5.0                       |
| MW-2A    | 6/30/2016  | D                   | 1880              | 1090                  | 64300            | 676                   | 2310                         | 289     | 67.8     | 279                           | < 1.22             | 3.9 J                  | 3.1 J                  | < 5.0               | < 5.0               | < 5.0               | 36.6    | < 5.0         | < 5.0                           | < 5.0                  | < 5.0                       |
| MW-2A    | 10/4/2016  |                     | 2120              | 1100                  | 60600            | 716                   | 2150                         | 271     | 72.4     | 276                           | < 1.21             | 2.9                    | 2.1                    | < 1.0               | < 1.0               | 1.8                 | 29.2    | 1.7           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2A    | 10/4/2016  | D                   | 2050              | 1060                  | 57300            | 641                   | 2140                         | 277     | 73.3     | 282                           | < 1.20             | 2.9                    | 2.2                    | < 1.0               | < 1.0               | 1.8                 | 27.4    | 1.8           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2A    | 4/25/2017  |                     | 1600              | 1140                  | 64900            | 647                   | 2320                         | 266     | 77.2     | 259                           | < 1.19             | 1.4                    | 1.1                    | < 1.0               | < 1.0               | 0.80 J              | 16.1    | 0.77 J        | 0.77 J                          | < 1.0                  | < 1.0                       |
| MW-2A    | 10/11/2017 |                     | 1430              | 879                   | 49800            | 1050                  | 1720                         | 214     | 58.0     | 198                           | < 1.18             | 1.9                    | 2.0                    | < 1.0               | < 1.0               | 1.1                 | 18.9    | 0.77 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2A    | 4/24/2018  |                     | 1670              | 1040                  | 56400            | 722                   | 2220                         | 256     | 69.1     | 263                           | < 1.17             | 3.4                    | 2.8                    | < 2.0               | < 2.0               | 1.5 J               | 27.3    | 1.4 J         | < 2.0                           | < 2.0                  | < 2.0                       |
| MW-2A    | 10/22/2018 |                     | 2090              | 1040                  | 57800            | 625                   | 2340                         | 265     | 71.4     | 259                           | < 1.16             | 3.0                    | 2.0 J                  | < 2.4               | < 1.0               | 1.6 J               | 28.5    | 1.6 J         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-2A    | 4/30/2019  |                     | 677               | 499                   | 58300            | 760                   | 734                          | 96.9    | 44.1     | 96.0                          | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 13.8    | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-2A    | 9/25/2019  |                     | 1320              | 890                   | 36800            | 1060                  | 1660                         | 198     | 57.0     | 192                           | < 1.0 J            | 1.4 J-                 | 1.0 J-                 | < 2.4 J             | < 1.0 J             | < 3.1 J             | 17.7    | 0.76 J-       | < 7.3 J                         | < 1.0 J                | < 2.7 J                     |
| MW-2B    | 6/30/2016  |                     | --                | 179                   | 21200            | 1200                  | 226                          | --      | 28.7     | --                            | < 1.15             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.77 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2B    | 10/4/2016  |                     | --                | 157                   | 20000            | 1210                  | 220                          | --      | 21.4     | --                            | < 1.14             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.52 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2B    | 4/25/2017  |                     | --                | 187                   | 22500            | 1200                  | 227                          | --      | 31.3     | --                            | < 1.13             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.0 J   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2B    | 10/11/2017 |                     | 145               | 169                   | 21100            | 1350                  | 211                          | --      | 23.7     | --                            | < 1.12             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.74 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2B    | 4/24/2018  |                     | --                | 142                   | 12400            | 1160                  | 168                          | --      | 17.0     | --                            | < 1.11             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-2B    | 10/22/2018 |                     | --                | 139                   | 15500            | 1250                  | 193                          | --      | 17.5     | --                            | < 1.10             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.40 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-2B    | 4/30/2019  |                     | --                | 182                   | 22200            | 1220                  | 214                          | --      | 28.3     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.86 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-2B    | 9/25/2019  |                     | --                | 208                   | 24600            | 1200                  | 209                          | --      | 37.8     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.36 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-3A    | 10/4/2016  |                     | 42.7 J            | 396                   | 53300            | 4690                  | 807                          | 102     | 30.8     | 93.4                          | < 1.9              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 2.1     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-3A    | 10/11/2017 |                     | 44.3              | 365                   | 48300            | 4750                  | 704                          | 86.4    | 28.5     | 75.6                          | < 1.8              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.8     | < 1.0         | 7.0                             | < 1.0                  | < 1.0                       |
| MW-3A    | 10/22/2018 |                     | --                | 309                   | 47800            | 3800                  | 722                          | 67.2    | 27.5     | 64.4                          | < 1.7              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 2.4     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-4A    | 10/3/2016  |                     | 14.5 J            | 110                   | < 100            | < 5.0                 | 123                          | --      | 1.2 J    | --                            | < 1.6              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-4A    | 10/10/2017 |                     | --                | 146                   | < 100            | < 5.0                 | 82.9                         | --      | 54.1     | --                            | < 1.5              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-4A    | 10/23/2018 |                     | 14.2 J            | 116                   | < 118            | < 5.0                 | 101                          | --      | 25.3     | --                            | < 1.4              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-4A    | 10/23/2018 | D                   | 13.7 J            | 116                   | < 118            | < 5.0                 | 105                          | --      | 25.4     | --                            | < 1.3              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-4A    | 9/24/2019  |                     | 16.3 J            | 144                   | < 100            | < 5.0                 | 111                          | --      | 22.4     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | 2.6 J                           | < 1.0                  | < 2.7                       |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Boron (dissolved) | Hardness, calculation | Iron (dissolved) | Manganese (dissolved) | Alkalinity, total (as CaCO3) | Ammonia | Chloride | Total kjeldahl nitrogen (TKN) | 1,1-Dichloroethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,2-Dichlorobenzene | 1,2-Dichloropropane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloromethane (Methyl chloride) | cis-1,2-Dichloroethene | Cymene (p-Isopropyltoluene) |
|----------|------------|---------------------|-------------------|-----------------------|------------------|-----------------------|------------------------------|---------|----------|-------------------------------|--------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------|---------------|---------------------------------|------------------------|-----------------------------|
|          |            |                     | ug/L              | mg/L                  | ug/L             | ug/L                  | mg/L                         | mg/L    | mg/L     | mg/L                          | mg/L               | ug/L                   | ug/L                   | ug/L                | ug/L                | ug/L                | ug/L    | ug/L          | ug/L                            | ug/L                   | ug/L                        |
|          |            |                     | 1000              | --                    | 300              | 50                    | --                           | 9.7     | 250      | --                            | 850                | 480                    |                        | 600                 | 5                   | 75                  | 5       | 100           | 30                              | 70                     | --                          |
|          |            |                     | 200               | --                    | 150              | 25                    | --                           | 0.97    | --       | --                            | 85                 | 96                     |                        | 60                  | 0.5                 | 15                  | 0.5     | --            | 3                               | 7                      | --                          |
| MW-5A    | 10/3/2016  |                     | 13.3 J            | 138                   | < 100            | 89.7                  | 54.0                         | --      | 134      | --                            | < 1.2              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-5A    | 10/10/2017 |                     | --                | 312                   | < 100            | 609                   | 51.0                         | --      | 281      | --                            | < 1.1              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-5A    | 10/23/2018 |                     | 15.6 J            | 828                   | < 118            | 2910                  | 39.5                         | --      | 797      | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-5A    | 9/24/2019  |                     | 18.7 J            | 958                   | 56.4 J           | 2490                  | 21.1 J                       | --      | 1200     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16A   | 6/29/2016  |                     | --                | 209                   | 1320             | 4440                  | 225                          | --      | 24.5     | --                            | 0.30 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.76 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16A   | 10/3/2016  |                     | --                | 209                   | 1550             | 4610                  | 252                          | --      | 28.3     | --                            | 0.41 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.3     | < 1.0         | < 1.0                           | 0.27 J                 | < 1.0                       |
| MW-16A   | 4/24/2017  |                     | --                | 202                   | 1810             | 3970                  | 222                          | --      | 24.6     | --                            | 0.29 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.82 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16A   | 10/10/2017 |                     | --                | 237                   | 2470             | 5220                  | 258                          | --      | 31.0     | --                            | 0.46 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.1     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16A   | 4/24/2018  |                     | --                | 168                   | 2550             | 3260                  | 165                          | --      | 20.1     | --                            | 0.24 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.75 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16A   | 10/23/2018 |                     | --                | 126                   | 1480             | 2470                  | 139                          | --      | 14.8     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.43 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16A   | 4/29/2019  |                     | --                | 201                   | 3690             | 4100                  | 211                          | --      | 25.8     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.76 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16A   | 9/25/2019  |                     | --                | 249                   | 5310             | 4430                  | 225                          | --      | 28.7     | --                            | 0.41 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.1     | < 2.4         | 3.7 J                           | < 1.0                  | < 2.7                       |
| MW-16A   | 9/25/2019  | D                   | --                | 245                   | 5540             | 4430                  | 230                          | --      | 28.7     | --                            | 0.43 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.1     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16B   | 6/29/2016  |                     | --                | 216                   | 36200            | 3760                  | 234                          | --      | 32.9     | --                            | 0.40 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.1     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 10/3/2016  |                     | --                | 205                   | 35500            | 3400                  | 242                          | --      | 34.9     | --                            | 0.28 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.5     | 0.53 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 10/3/2016  | D                   | --                | 207                   | 35400            | 3510                  | 238                          | --      | 34.8     | --                            | 0.30 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.4     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 4/24/2017  |                     | --                | 236                   | 39900            | 3690                  | 257                          | --      | 38.6     | --                            | 0.29 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.2     | 0.52 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 10/10/2017 |                     | --                | 226                   | 38800            | 4000                  | 249                          | --      | 36.4     | --                            | 0.39 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.2     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 4/24/2018  |                     | --                | 227                   | 37300            | 3520                  | 225                          | --      | 37.2     | --                            | 0.27 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.0     | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16B   | 10/23/2018 |                     | --                | 240                   | 38700            | 4130                  | 261                          | --      | 39.2     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.3     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16B   | 4/29/2019  |                     | --                | 221                   | 34400            | 3690                  | 224                          | --      | 36.4     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.0 J   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16B   | 4/29/2019  | D                   | --                | 220                   | 34100            | 3700                  | 232                          | --      | 36.7     | --                            | 0.28 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.0     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16B   | 9/25/2019  |                     | --                | 241                   | 35600            | 3640                  | 228                          | --      | 34.2     | --                            | 0.41 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.2     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16C   | 6/29/2016  |                     | --                | 221                   | 24400            | 1940                  | 245                          | --      | 34.6     | --                            | 0.35 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.1     | 0.51 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16C   | 10/3/2016  |                     | --                | 222                   | 24800            | 1910                  | 238                          | --      | 37.0     | --                            | 0.29 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.6     | 0.60 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16C   | 4/24/2017  |                     | --                | 232                   | 26200            | 2050                  | 257                          | --      | 39.7     | --                            | 0.27 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.3     | 0.59 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16C   | 10/10/2017 |                     | --                | 233                   | 27100            | 2190                  | 256                          | --      | 38.9     | --                            | 0.30 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.3     | 0.56 J        | < 1.0                           | < 1.0                  | < 1.0                       |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Boron (dissolved) | Hardness, calculation | Iron (dissolved) | Manganese (dissolved) | Alkalinity, total (as CaCO3) | Ammonia | Chloride | Total kjeldahl nitrogen (TKN) | 1,1-Dichloroethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,2-Dichlorobenzene | 1,2-Dichloropropane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloromethane (Methyl chloride) | cis-1,2-Dichloroethene | Cymene (p-Isopropyltoluene) |
|----------|------------|---------------------|-------------------|-----------------------|------------------|-----------------------|------------------------------|---------|----------|-------------------------------|--------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------|---------------|---------------------------------|------------------------|-----------------------------|
|          |            |                     | ug/L              | mg/L                  | ug/L             | ug/L                  | mg/L                         | mg/L    | mg/L     | mg/L                          | mg/L               | ug/L                   | ug/L                   | ug/L                | ug/L                | ug/L                | ug/L    | ug/L          | ug/L                            | ug/L                   | ug/L                        |
|          |            |                     | 1000              | --                    | 300              | 50                    | --                           | 9.7     | 250      | --                            | 850                | 480                    |                        | 600                 | 5                   | 75                  | 5       | 100           | 30                              | 70                     | --                          |
|          |            |                     | 200               | --                    | 150              | 25                    | --                           | 0.97    | --       | --                            | 85                 | 96                     |                        | 60                  | 0.5                 | 15                  | 0.5     | --            | 3                               | 7                      | --                          |
| MW-16C   | 4/24/2018  |                     | --                | 232                   | 26700            | 2110                  | 237                          | --      | 41.5     | --                            | 0.24 J             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.3     | 0.64 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-16C   | 10/23/2018 |                     | --                | 241                   | 28000            | 2280                  | 266                          | --      | 43.7     | --                            | 0.30 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.5     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16C   | 4/29/2019  |                     | --                | 232                   | 27200            | 2180                  | 232                          | --      | 43.9     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.2     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-16C   | 9/25/2019  |                     | --                | 252                   | 28400            | 2160                  | 239                          | --      | 40.2     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.1     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-18A   | 10/3/2016  |                     | --                | 209                   | 2290             | 1100                  | 165                          | --      | 68.3     | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 2.4                    | < 1.0                       |
| MW-18A   | 10/9/2017  |                     | --                | 236                   | 2880             | 1020                  | 181                          | --      | 67.6     | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 2.2                    | < 1.0                       |
| MW-18A   | 10/23/2018 |                     | --                | 233                   | 2050             | 1470                  | 164                          | --      | 81.2     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | 4.9                    | < 2.7                       |
| MW-18A   | 9/25/2019  |                     | --                | 271                   | 2880             | 1180                  | 177                          | --      | 71.6     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | 4.1                    | < 2.7                       |
| MW-18B   | 10/3/2016  |                     | --                | 303                   | < 100            | 1640                  | 165                          | --      | 137      | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 1.2                    | < 1.0                       |
| MW-18B   | 10/9/2017  |                     | --                | 351                   | < 100            | 2030                  | 201                          | --      | 157      | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 0.57 J                 | < 1.0                       |
| MW-18B   | 10/23/2018 |                     | --                | 305                   | 38.3 J           | 2110                  | 306                          | --      | 51.5     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.54 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-18B   | 9/25/2019  |                     | --                | 395                   | 30.7 J           | 2330                  | 216                          | --      | 147      | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | 0.83 J                 | < 2.7                       |
| MW-18C   | 10/3/2016  |                     | 90.9 J            | 351                   | 14.3 J           | 1140                  | 214                          | --      | 161      | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 0.40 J                 | < 1.0                       |
| MW-18C   | 10/9/2017  |                     | --                | 334                   | < 100            | 1240                  | 171                          | --      | 162      | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 0.61 J                 | < 1.0                       |
| MW-18C   | 10/9/2017  | D                   | 59.2              | 326                   | < 100            | 1220                  | 171                          | --      | 162      | --                            | < 1.0              | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | 0.71 J                 | < 1.0                       |
| MW-18C   | 10/23/2018 |                     | 141               | 315                   | < 118            | 1490                  | 276                          | --      | 83.8     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.42 J  | < 2.4         | < 7.3                           | 0.40 J                 | < 2.7                       |
| MW-18C   | 9/25/2019  |                     | 60.8              | 356                   | < 100            | 1460                  | 158                          | --      | 157      | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | 1.0                    | < 2.7                       |
| MW-20A   | 6/29/2016  |                     | 689               | 198                   | 76500            | 788                   | 385                          | --      | 14.3 J   | --                            | < 1.0              | 22.9                   | 5.2                    | 1.2                 | < 1.0               | 2.3                 | 1.7     | 6.9           | < 1.0                           | < 1.0                  | 0.59 J                      |
| MW-20A   | 10/3/2016  |                     | 812               | 238                   | 102000           | 1040                  | 408                          | --      | 19.5 J   | --                            | < 1.0              | 24.8                   | 5.6                    | 1.0                 | < 1.0               | 2.4                 | 3.1     | 8.4           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20A   | 4/24/2017  |                     | 428               | 167                   | 71200            | 755                   | 299                          | --      | 8.4 J    | --                            | < 1.0              | 17.7                   | 3.6                    | 0.53 J              | < 1.0               | 1.6                 | 1.2     | 3.6           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20A   | 10/10/2017 |                     | 782               | 249                   | 114000           | 1130                  | 466                          | --      | 13.1     | --                            | < 1.0              | 18.8                   | 4.1                    | 0.79 J              | < 1.0               | 1.5                 | 2.1     | 6.8           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20A   | 4/24/2018  |                     | 398               | 143                   | 69400            | 654                   | 253                          | --      | 8.9 J    | --                            | < 1.0              | 19.7                   | 4.6                    | 0.63 J              | < 1.0               | 1.6                 | 1.0 J   | 5.2           | < 1.0                           | < 1.0                  | 0.59 J                      |
| MW-20A   | 10/23/2018 |                     | 611               | 180                   | 80700            | 712                   | 277                          | --      | 7.8 J    | --                            | < 1.0              | 23.5                   | 4.8                    | 0.86 J              | < 1.0               | 1.9 J               | 1.9     | 6.2           | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20A   | 4/30/2019  |                     | 505               | 175                   | 75300            | 848                   | 255                          | --      | 10.8     | --                            | < 1.0              | 16.7                   | 3.1                    | < 2.4               | < 1.0               | 1.6 J               | 1.2     | 4.3           | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20A   | 9/24/2019  |                     | 813               | 264                   | 115000           | 953                   | 446                          | --      | 11.8     | --                            | < 1.0              | 23.7                   | 4.4                    | 0.85 J              | < 1.0               | 2.0 J               | 2.2     | 7.2           | 3.4 J                           | < 1.0                  | < 2.7                       |
| MW-20B   | 6/29/2016  |                     | --                | 164                   | 17600            | 1140                  | 160                          | --      | 40.4     | --                            | < 1.55             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.63 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20B   | 10/3/2016  |                     | --                | 156                   | 17300            | 1060                  | 153                          | --      | 44.2     | --                            | < 1.54             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.90 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Boron (dissolved) | Hardness, calculation | Iron (dissolved) | Manganese (dissolved) | Alkalinity, total (as CaCO3) | Ammonia | Chloride | Total kjeldahl nitrogen (TKN) | 1,1-Dichloroethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,2-Dichlorobenzene | 1,2-Dichloropropane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloromethane (Methyl chloride) | cis-1,2-Dichloroethene | Cymene (p-Isopropyltoluene) |
|----------|------------|---------------------|-------------------|-----------------------|------------------|-----------------------|------------------------------|---------|----------|-------------------------------|--------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------|---------------|---------------------------------|------------------------|-----------------------------|
|          |            |                     | ug/L              | mg/L                  | ug/L             | ug/L                  | mg/L                         | mg/L    | mg/L     | mg/L                          | mg/L               | ug/L                   | ug/L                   | ug/L                | ug/L                | ug/L                | ug/L    | ug/L          | ug/L                            | ug/L                   | ug/L                        |
|          |            |                     | 1000              | --                    | 300              | 50                    | --                           | 9.7     | 250      | --                            | 850                | 480                    |                        | 600                 | 5                   | 75                  | 5       | 100           | 30                              | 70                     | --                          |
|          |            |                     | 200               | --                    | 150              | 25                    | --                           | 0.97    | --       | --                            | 85                 | 96                     |                        | 60                  | 0.5                 | 15                  | 0.5     | --            | 3                               | 7                      | --                          |
| MW-20B   | 4/24/2017  |                     | --                | 167                   | 18200            | 1090                  | 162                          | --      | 45.7     | --                            | < 1.53             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.70 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20B   | 10/10/2017 |                     | 128               | 162                   | 15700            | 1120                  | 146                          | --      | 46.8     | --                            | < 1.52             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.68 J  | 0.55 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20B   | 4/24/2018  |                     | --                | 162                   | 17600            | 1080                  | 145                          | --      | 46.3     | --                            | < 1.51             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.64 J  | 0.57 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20B   | 10/23/2018 |                     | --                | 160                   | 17700            | 1100                  | 158                          | --      | 47.7     | --                            | < 1.50             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.74 J  | 0.77 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20B   | 4/30/2019  |                     | --                | 158                   | 16800            | 1040                  | 142                          | --      | 49.5     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.70 J  | 0.90 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20B   | 9/24/2019  |                     | --                | 169                   | 17900            | 1030                  | 140                          | --      | 43.9     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.67 J  | 0.97 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20C   | 6/29/2016  |                     | --                | 179                   | 20900            | 1380                  | 182                          | --      | 40.0     | --                            | < 1.49             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.81 J  | 0.56 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 10/3/2016  |                     | --                | 173                   | 20800            | 1360                  | 189                          | --      | 39.3     | --                            | < 1.48             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 1.3     | 0.83 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 4/24/2017  |                     | --                | 180                   | 21400            | 1350                  | 188                          | --      | 45.9     | --                            | < 1.47             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.80 J  | 0.59 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 4/24/2017  | D                   | --                | 183                   | 21600            | 1410                  | 370                          | --      | 46.3     | --                            | < 1.46             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.86 J  | 0.60 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 10/10/2017 |                     | --                | 180                   | 21300            | 1430                  | 179                          | --      | 44.9     | --                            | < 1.45             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.77 J  | 0.95 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 4/24/2018  |                     | --                | 183                   | 21500            | 1400                  | 183                          | --      | 46.9     | --                            | < 1.44             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.90 J  | 0.74 J        | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-20C   | 10/23/2018 |                     | --                | 186                   | 22000            | 1460                  | 187                          | --      | 47.2     | --                            | < 1.43             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 1.0     | 0.81 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20C   | 4/30/2019  |                     | --                | 188                   | 22200            | 1460                  | 176                          | --      | 49.1     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.94 J  | 0.72 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-20C   | 9/24/2019  |                     | --                | 205                   | 23400            | 1390                  | 186                          | --      | 44.9     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.90 J  | 0.83 J        | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-21A   | 10/4/2016  |                     | 1230              | 627                   | 57900            | 1280                  | 1810                         | 265     | 60.4     | 264                           | < 1.42             | 4.4                    | 1.7                    | < 1.0               | < 1.0               | 1.8                 | 4.6     | 5.5           | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-21A   | 10/11/2017 |                     | 1220              | 732                   | 39600            | 1220                  | 1820                         | 267     | 56.0     | 254                           | < 1.41             | < 10.0                 | < 10.0                 | < 10.0              | < 10.0              | < 10.0              | < 10.0  | 5.4 J         | < 10.0                          | < 10.0                 | < 10.0                      |
| MW-21A   | 10/22/2018 |                     | 1110              | 738                   | 57300            | 1200                  | 1830                         | 232     | 46.8     | 230                           | < 1.40             | 5.0                    | 2.2 J                  | < 2.4               | < 1.0               | 1.9 J               | 4.7     | 7.1           | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-21A   | 9/25/2019  |                     | 1180              | 805                   | 53600            | 1050                  | 1710                         | 224     | 46.3     | 212                           | < 1.0              | 3.5                    | 1.8 J                  | < 2.4               | < 1.0               | 1.9 J               | 4.2     | 6.7           | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-25B   | 10/4/2016  |                     | 24.1 J            | 260                   | 21900            | 594                   | 135                          | --      | 15.1     | --                            | < 1.39             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-25B   | 10/10/2017 |                     | < 40.0            | 174                   | < 100            | 193                   | 156                          | --      | 16.8     | --                            | < 1.38             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-25B   | 10/23/2018 |                     | < 40.0            | 166                   | < 118            | 190                   | 163                          | --      | 16.5     | --                            | < 1.37             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-25B   | 9/24/2019  |                     | 11.4 J            | 187                   | 73.6 J           | 41.4                  | 148                          | --      | 16.8     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-26B   | 10/3/2016  |                     | --                | 189                   | 54.5 J           | 100                   | 178                          | --      | 12.0     | --                            | < 1.36             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-26B   | 10/9/2017  |                     | --                | 197                   | 457              | 666                   | 183                          | --      | 12.4     | --                            | < 1.35             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-26B   | 10/23/2018 |                     | --                | 21.4                  | 10700            | 984                   | 40.7                         | --      | 88.0     | --                            | < 1.34             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-26B   | 9/25/2019  |                     | --                | 216                   | 1410             | 633                   | 182                          | --      | 12.2     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Boron (dissolved) | Hardness, calculation | Iron (dissolved) | Manganese (dissolved) | Alkalinity, total (as CaCO3) | Ammonia | Chloride | Total kjeldahl nitrogen (TKN) | 1,1-Dichloroethane | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | 1,2-Dichlorobenzene | 1,2-Dichloropropane | 1,4-Dichlorobenzene | Benzene | Chlorobenzene | Chloromethane (Methyl chloride) | cis-1,2-Dichloroethene | Cymene (p-Isopropyltoluene) |
|----------|------------|---------------------|-------------------|-----------------------|------------------|-----------------------|------------------------------|---------|----------|-------------------------------|--------------------|------------------------|------------------------|---------------------|---------------------|---------------------|---------|---------------|---------------------------------|------------------------|-----------------------------|
|          |            |                     | ug/L              | mg/L                  | ug/L             | ug/L                  | mg/L                         | mg/L    | mg/L     | mg/L                          | mg/L               | ug/L                   | ug/L                   | ug/L                | ug/L                | ug/L                | ug/L    | ug/L          | ug/L                            | ug/L                   | ug/L                        |
|          |            |                     | 1000              | --                    | 300              | 50                    | --                           | 9.7     | 250      | --                            | 850                | 480                    |                        | 600                 | 5                   | 75                  | 5       | 100           | 30                              | 70                     | --                          |
|          |            |                     | 200               | --                    | 150              | 25                    | --                           | 0.97    | --       | --                            | 85                 | 96                     |                        | 60                  | 0.5                 | 15                  | 0.5     | --            | 3                               | 7                      | --                          |
| MW-26C   | 10/3/2016  |                     | --                | 226                   | 1040             | 2720                  | 227                          | --      | 20.8     | --                            | < 1.33             | < 1.0                  | < 1.0                  | < 1.0               | 0.29 J              | < 1.0               | 0.96 J  | < 1.0         | < 1.0                           | 0.70 J                 | < 1.0                       |
| MW-26C   | 10/9/2017  |                     | --                | 241                   | 1050             | 2830                  | 227                          | --      | 22.8     | --                            | < 1.32             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | 0.86 J  | < 1.0         | < 1.0                           | 0.61 J                 | < 1.0                       |
| MW-26C   | 10/23/2018 |                     | --                | 235                   | 930              | 2600                  | 232                          | --      | 22.8     | --                            | < 1.31             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.95 J  | < 2.4         | < 7.3                           | 0.61 J                 | < 2.7                       |
| MW-26C   | 9/25/2019  |                     | --                | 256                   | 1440             | 2500                  | 216                          | --      | 22.5     | --                            | 0.80 J             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.92 J  | < 2.4         | < 7.3                           | 0.47 J                 | < 2.7                       |
| MW-27B   | 10/4/2016  |                     | --                | 86.5                  | 54.6 J           | 155                   | 77.3                         | --      | 4.5      | --                            | < 1.30             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-27B   | 10/10/2017 |                     | --                | 91.8                  | 48.3 J           | 179                   | 81.8                         | --      | 4.7      | --                            | < 1.29             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-27B   | 10/23/2018 |                     | --                | 89.6                  | 41.2 J           | 175                   | 79.7                         | --      | 5.0      | --                            | < 1.28             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-27B   | 9/25/2019  |                     | --                | 99.6                  | 52.5 J           | 170                   | 77.1                         | --      | 5.5      | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | < 1.0   | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-28A   | 6/30/2016  |                     | 283               | 312                   | 5680             | 548                   | 314                          | --      | 25.1     | --                            | < 1.27             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | 1.1                 | 0.99 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-28A   | 10/4/2016  |                     | 70.5 J            | 125                   | 7420             | 2220                  | 127                          | --      | 76.7     | --                            | < 1.26             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | < 1.0               | < 1.0   | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-28A   | 10/10/2017 |                     | 210               | 245                   | 7200             | 1640                  | 298                          | --      | 22.1     | --                            | < 1.25             | < 1.0                  | < 1.0                  | < 1.0               | < 1.0               | 0.85 J              | 0.64 J  | < 1.0         | < 1.0                           | < 1.0                  | < 1.0                       |
| MW-28A   | 10/22/2018 |                     | 242               | 298                   | 4940             | 604                   | 323                          | --      | 20.3     | --                            | < 1.24             | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | 1.0 J               | 1.3     | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |
| MW-28A   | 9/25/2019  |                     | 154               | 204                   | 6730             | 1580                  | 213                          | --      | 33.3     | --                            | < 1.0              | < 2.8                  | < 2.9                  | < 2.4               | < 1.0               | < 3.1               | 0.55 J  | < 2.4         | < 7.3                           | < 1.0                  | < 2.7                       |

**Table 7**  
**Summary of Detected Compounds**  
**Former City of Rhinelander Landfill**  
**Rhinelander, Wisconsin**

| Location | Date       | WES<br>PAL<br>QA/QC | Dichlorodifluoromethane (CFC-12) | Isopropyl benzene | m&p-Xylenes         | o-Xylene         | Methylene chloride | Naphthalene       | N-Butylbenzene   | N-Propylbenzene  | Tetrachloroethene | Tetrahydrofuran  | Toluene            | Trichloroethene  | Vinyl chloride      |
|----------|------------|---------------------|----------------------------------|-------------------|---------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------|------------------|--------------------|------------------|---------------------|
|          |            |                     | ug/L<br>1000<br>200              | ug/L<br>--<br>--  | ug/L<br>2000<br>400 | ug/L<br>--<br>-- | ug/L<br>5<br>0.5   | ug/L<br>100<br>10 | ug/L<br>--<br>-- | ug/L<br>--<br>-- | ug/L<br>5<br>0.5  | ug/L<br>50<br>10 | ug/L<br>800<br>160 | ug/L<br>5<br>0.5 | ug/L<br>0.2<br>0.02 |
| MW-2A    | 6/30/2016  |                     | < 5.0                            | < 5.0             | 8.5 J               | < 5.0            | < 5.0              | < 25.0            | < 5.0            | < 5.0            | < 5.0             | 210              | < 5.0              | < 5.0            | < 5.0               |
| MW-2A    | 6/30/2016  | D                   | < 5.0                            | 0.75 J            | 8.5 J               | < 5.0            | < 5.0              | < 25.0            | < 5.0            | < 5.0            | < 5.0             | 202              | < 5.0              | < 5.0            | < 5.0               |
| MW-2A    | 10/4/2016  |                     | < 1.0                            | 0.55 J            | 6.1                 | 0.72 J           | < 1.0              | 4.4 J             | < 1.0            | 0.67 J           | < 1.0             | 239              | 0.53 J             | < 1.0            | < 1.0               |
| MW-2A    | 10/4/2016  | D                   | < 1.0                            | 0.58 J            | 6.3                 | 0.77 J           | < 1.0              | 4.7 J             | < 1.0            | 0.68 J           | < 1.0             | 217              | < 1.0              | < 1.0            | < 1.0               |
| MW-2A    | 4/25/2017  |                     | < 1.0                            | 0.29 J            | 3.2                 | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 184              | < 1.0              | < 1.0            | < 1.0               |
| MW-2A    | 10/11/2017 |                     | < 1.0                            | 0.35 J            | 2.3                 | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 133              | < 1.0              | < 1.0            | < 1.0               |
| MW-2A    | 4/24/2018  |                     | < 2.0                            | 0.55 J            | 5.7                 | < 2.0            | < 2.0              | < 10.0            | < 2.0            | < 2.0            | < 2.0             | 185              | < 2.0              | < 2.0            | < 2.0               |
| MW-2A    | 10/22/2018 |                     | < 5.0                            | 0.48 J            | 6.1                 | 0.58 J           | < 5.0              | 4.2 J             | < 2.4            | < 5.0            | < 1.1             | 216              | 0.32 J             | < 1.0            | < 1.0               |
| MW-2A    | 4/30/2019  |                     | < 5.0                            | < 5.0             | 1.5 J               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 85.9             | 0.19 J             | < 1.0            | < 1.0               |
| MW-2A    | 9/25/2019  |                     | < 5.0 J                          | < 5.0 J           | 2.1                 | 0.51 J-          | < 5.0 J            | 3.9 J-            | < 2.4 J          | < 5.0 J          | < 1.1 J           | 157              | 0.35 J-            | < 1.0 J          | < 1.0 J             |
| MW-2B    | 6/30/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 17.2             | < 1.0              | < 1.0            | 0.59 J              |
| MW-2B    | 10/4/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 14.5             | < 1.0              | < 1.0            | < 1.0               |
| MW-2B    | 4/25/2017  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 19.0             | < 1.0              | < 1.0            | 0.40 J              |
| MW-2B    | 10/11/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 10.6             | < 1.0              | < 1.0            | < 1.0               |
| MW-2B    | 4/24/2018  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 7.3              | < 1.0              | < 1.0            | < 1.0               |
| MW-2B    | 10/22/2018 |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 8.9 J            | < 5.0              | < 1.0            | < 1.0               |
| MW-2B    | 4/30/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 16.0 J           | < 5.0              | < 1.0            | 0.42 J              |
| MW-2B    | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 9.3 J            | < 5.0              | < 1.0            | < 1.0               |
| MW-3A    | 10/4/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 177              | < 1.0              | < 1.0            | 0.22 J              |
| MW-3A    | 10/11/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | 1.0                | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 82.7             | < 1.0              | < 1.0            | < 1.0               |
| MW-3A    | 10/22/2018 |                     | < 5.0                            | < 5.0             | 1.6 J               | < 1.0            | < 5.0              | 1.2 J             | < 2.4            | < 5.0            | < 1.1             | 90.1             | 0.19 J             | < 1.0            | < 1.0               |
| MW-4A    | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | < 1.0               |
| MW-4A    | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | < 1.0               |
| MW-4A    | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |
| MW-4A    | 10/23/2018 | D                   | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |
| MW-4A    | 9/24/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Dichlorodifluoromethane (CFC-12) | Isopropyl benzene | m&p-Xylenes         | o-Xylene         | Methylene chloride | Naphthalene       | N-Butylbenzene   | N-Propylbenzene  | Tetrachloroethene | Tetrahydrofuran  | Toluene            | Trichloroethene  | Vinyl chloride      |
|----------|------------|---------------------|----------------------------------|-------------------|---------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------|------------------|--------------------|------------------|---------------------|
|          |            |                     | ug/L<br>1000<br>200              | ug/L<br>--<br>--  | ug/L<br>2000<br>400 | ug/L<br>--<br>-- | ug/L<br>5<br>0.5   | ug/L<br>100<br>10 | ug/L<br>--<br>-- | ug/L<br>--<br>-- | ug/L<br>5<br>0.5  | ug/L<br>50<br>10 | ug/L<br>800<br>160 | ug/L<br>5<br>0.5 | ug/L<br>0.2<br>0.02 |
| MW-5A    | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | < 1.0               |
| MW-5A    | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | < 1.0               |
| MW-5A    | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |
| MW-5A    | 9/24/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |
| MW-16A   | 6/29/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | 1.2                 |
| MW-16A   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | 2.0                 |
| MW-16A   | 4/24/2017  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | 0.71 J              |
| MW-16A   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | 1.1                 |
| MW-16A   | 4/24/2018  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | < 5.0            | < 1.0              | < 1.0            | 0.34 J              |
| MW-16A   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | 0.27 J              |
| MW-16A   | 4/29/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | < 1.0               |
| MW-16A   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | 1.1                 |
| MW-16A   | 9/25/2019  | D                   | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | 1.1                 |
| MW-16B   | 6/29/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 4.6 J            | < 1.0              | < 1.0            | 0.59 J              |
| MW-16B   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 7.0              | < 1.0              | < 1.0            | 0.57 J              |
| MW-16B   | 10/3/2016  | D                   | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 6.9              | < 1.0              | < 1.0            | 0.56 J              |
| MW-16B   | 4/24/2017  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 11.5             | < 1.0              | < 1.0            | < 1.0               |
| MW-16B   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 7.6              | < 1.0              | < 1.0            | 0.24 J              |
| MW-16B   | 4/24/2018  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 7.2              | < 1.0              | < 1.0            | < 1.0               |
| MW-16B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 8.3 J            | < 5.0              | < 1.0            | < 1.0               |
| MW-16B   | 4/29/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | 0.24 J              |
| MW-16B   | 4/29/2019  | D                   | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | < 20.0           | < 5.0              | < 1.0            | 0.22 J              |
| MW-16B   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0               | < 1.0            | < 5.0              | < 5.0             | < 2.4            | < 5.0            | < 1.1             | 2.8 J            | < 5.0              | < 1.0            | 0.27 J              |
| MW-16C   | 6/29/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | 2.6 J             | < 1.0            | < 1.0            | < 1.0             | 11.9             | < 1.0              | < 1.0            | 0.39 J              |
| MW-16C   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | 3.1 J             | < 1.0            | < 1.0            | < 1.0             | 18.2             | < 1.0              | < 1.0            | 0.34 J              |
| MW-16C   | 4/24/2017  |                     | < 1.0                            | < 1.0             | 1.1 J               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 15.9             | < 1.0              | < 1.0            | 0.24 J              |
| MW-16C   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0               | < 1.0            | < 1.0              | < 5.0             | < 1.0            | < 1.0            | < 1.0             | 12.9             | < 1.0              | < 1.0            | 0.22 J              |



Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Dichlorodifluoromethane (CFC-12) | Isopropyl benzene | m&p-Xylenes | o-Xylene | Methylene chloride | Naphthalene | N-Butylbenzene | N-Propylbenzene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloroethene | Vinyl chloride |
|----------|------------|---------------------|----------------------------------|-------------------|-------------|----------|--------------------|-------------|----------------|-----------------|-------------------|-----------------|---------|-----------------|----------------|
|          |            |                     | ug/L                             | ug/L              | ug/L        | ug/L     | ug/L               | ug/L        | ug/L           | ug/L            | ug/L              | ug/L            | ug/L    | ug/L            | ug/L           |
|          |            |                     | 1000                             | --                | 2000        |          | 5                  | 100         | --             | --              | 5                 | 50              | 800     | 5               | 0.2            |
|          |            |                     | 200                              | --                | 400         |          | 0.5                | 10          | --             | --              | 0.5               | 10              | 160     | 0.5             | 0.02           |
| MW-16C   | 4/24/2018  |                     | < 1.0                            | < 1.0             | 1.4 J       | < 1.0    | < 1.0              | 3.3 J       | < 1.0          | < 1.0           | < 1.0             | 15.6            | < 1.0   | < 1.0           | 0.29 J         |
| MW-16C   | 10/23/2018 |                     | < 5.0                            | < 5.0             | 1.6 J       | < 1.0    | < 5.0              | 4.5 J       | < 2.4          | < 5.0           | < 1.1             | 16.6 J          | < 5.0   | < 1.0           | 0.35 J         |
| MW-16C   | 4/29/2019  |                     | < 5.0                            | < 5.0             | 0.89 J      | < 1.0    | < 5.0              | 1.8 J       | < 2.4          | < 5.0           | < 1.1             | 9.0 J           | < 5.0   | < 1.0           | 0.26 J         |
| MW-16C   | 9/25/2019  |                     | < 5.0                            | < 5.0             | 0.75 J      | < 1.0    | < 5.0              | 3.6 J       | < 2.4          | < 5.0           | < 1.1             | 8.2 J           | < 5.0   | < 1.0           | 0.29 J         |
| MW-18A   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | 0.94 J          | 0.27 J         |
| MW-18A   | 10/9/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | 1.7             | 0.36 J         |
| MW-18A   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | 3.9             | 0.22 J         |
| MW-18A   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | 3.7             | 0.31 J         |
| MW-18B   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | 0.86 J            | < 5.0           | < 1.0   | 22.1            | < 1.0          |
| MW-18B   | 10/9/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | 1.1               | < 5.0           | < 1.0   | 10.7            | < 1.0          |
| MW-18B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | 4.0 J           | < 5.0   | 2.2             | < 1.0          |
| MW-18B   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | 0.72 J            | < 20.0          | < 5.0   | 7.5             | < 1.0          |
| MW-18C   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | 0.61 J            | < 5.0           | < 1.0   | 5.2             | 0.23 J         |
| MW-18C   | 10/9/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | 1.3               | < 5.0           | < 1.0   | 13.7            | < 1.0          |
| MW-18C   | 10/9/2017  | D                   | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | 1.2               | < 5.0           | < 1.0   | 15.1            | < 1.0          |
| MW-18C   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | 0.35 J            | 3.1 J           | < 5.0   | 6.1             | < 1.0          |
| MW-18C   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | 0.84 J            | < 20.0          | < 5.0   | 16.7            | < 1.0          |
| MW-20A   | 6/29/2016  |                     | < 1.0                            | 4.7               | 82.5        | 3.3      | < 1.0              | 19.5        | 1.4            | 3.5             | < 1.0             | 10.7            | < 1.0   | < 1.0           | < 1.0          |
| MW-20A   | 10/3/2016  |                     | < 1.0                            | 4.4               | 72.0        | 2.2      | < 1.0              | 21.0        | 1.6            | 3.6             | < 1.0             | 18.7            | < 1.0   | < 1.0           | < 1.0          |
| MW-20A   | 4/24/2017  |                     | < 1.0                            | 2.7               | 40.8        | 1.3      | < 1.0              | 11.0        | < 1.0          | 2.1             | < 1.0             | 6.8             | < 1.0   | < 1.0           | < 1.0          |
| MW-20A   | 10/10/2017 |                     | < 1.0                            | 3.3               | 46.5        | 1.0      | < 1.0              | 12.9        | < 1.0          | 2.3             | < 1.0             | 9.6             | < 1.0   | < 1.0           | < 1.0          |
| MW-20A   | 4/24/2018  |                     | < 1.0                            | 3.5               | 50.6        | 1.1      | < 1.0              | 12.5        | 1.4            | 2.4             | < 1.0             | 7.5             | < 1.0   | < 1.0           | < 1.0          |
| MW-20A   | 10/23/2018 |                     | < 5.0                            | 4.0 J             | 56.4        | 1.6      | < 5.0              | 18.0        | < 2.4          | 3.0 J           | < 1.1             | 8.7 J           | 0.38 J  | < 1.0           | < 1.0          |
| MW-20A   | 4/30/2019  |                     | < 5.0                            | 3.2 J             | 39.4        | 1.0      | < 5.0              | 10.7        | 1.0 J          | 2.2 J           | < 1.1             | 6.8 J           | 0.18 J  | < 1.0           | < 1.0          |
| MW-20A   | 9/24/2019  |                     | < 5.0                            | 4.3 J             | 53.0        | 1.6      | < 5.0              | 18.3        | < 2.4          | 2.9 J           | < 1.1             | 12.4 J          | 0.35 J  | < 1.0           | < 1.0          |
| MW-20B   | 6/29/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 15.4        | < 1.0          | < 1.0           | < 1.0             | 12.2            | < 1.0   | < 1.0           | 0.76 J         |
| MW-20B   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 11.9        | < 1.0          | < 1.0           | < 1.0             | 14.5            | < 1.0   | < 1.0           | 0.69 J         |

Table 7

Summary of Detected Compounds  
Former City of Rhinelander Landfill  
Rhinelander, Wisconsin

| Location | Date       | WES<br>PAL<br>QA/QC | Dichlorodifluoromethane (CFC-12) | Isopropyl benzene | m&p-Xylenes | o-Xylene | Methylene chloride | Naphthalene | N-Butylbenzene | N-Propylbenzene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloroethene | Vinyl chloride |
|----------|------------|---------------------|----------------------------------|-------------------|-------------|----------|--------------------|-------------|----------------|-----------------|-------------------|-----------------|---------|-----------------|----------------|
|          |            |                     | ug/L                             | ug/L              | ug/L        | ug/L     | ug/L               | ug/L        | ug/L           | ug/L            | ug/L              | ug/L            | ug/L    | ug/L            | ug/L           |
|          |            |                     | 1000                             | --                | 2000        |          | 5                  | 100         | --             | --              | 5                 | 50              | 800     | 5               | 0.2            |
|          |            |                     | 200                              | --                | 400         |          | 0.5                | 10          | --             | --              | 0.5               | 10              | 160     | 0.5             | 0.02           |
| MW-20B   | 4/24/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 11.6        | < 1.0          | < 1.0           | < 1.0             | 14.5            | < 1.0   | < 1.0           | 0.54 J         |
| MW-20B   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 6.9         | < 1.0          | < 1.0           | < 1.0             | 5.9             | < 1.0   | < 1.0           | < 1.0          |
| MW-20B   | 4/24/2018  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 10.6        | < 1.0          | < 1.0           | < 1.0             | 15.2            | < 1.0   | < 1.0           | 0.48 J         |
| MW-20B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 12.3        | < 2.4          | < 5.0           | < 1.1             | 11.0 J          | < 5.0   | < 1.0           | 0.43 J         |
| MW-20B   | 4/30/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 6.7         | < 2.4          | < 5.0           | < 1.1             | 8.0 J           | < 5.0   | < 1.0           | 0.25 J         |
| MW-20B   | 9/24/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 6.4         | < 2.4          | < 5.0           | < 1.1             | 5.4 J           | < 5.0   | < 1.0           | 0.19 J         |
| MW-20C   | 6/29/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 8.3         | < 1.0          | < 1.0           | < 1.0             | 8.1             | < 1.0   | < 1.0           | 1.1            |
| MW-20C   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 6.2         | < 1.0          | < 1.0           | < 1.0             | 12.2            | < 1.0   | < 1.0           | 1.2            |
| MW-20C   | 4/24/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 6.7         | < 1.0          | < 1.0           | < 1.0             | 7.1             | < 1.0   | < 1.0           | 0.84 J         |
| MW-20C   | 4/24/2017  | D                   | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 6.7         | < 1.0          | < 1.0           | < 1.0             | 7.5             | < 1.0   | < 1.0           | 0.81 J         |
| MW-20C   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 5.6         | < 1.0          | < 1.0           | < 1.0             | 6.4             | < 1.0   | < 1.0           | < 1.0          |
| MW-20C   | 4/24/2018  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | 8.9         | < 1.0          | < 1.0           | < 1.0             | 14.1            | < 1.0   | < 1.0           | 0.78 J         |
| MW-20C   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 7.7         | < 2.4          | < 5.0           | < 1.1             | 10.6 J          | < 5.0   | < 1.0           | 0.84 J         |
| MW-20C   | 4/30/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 5.1         | < 2.4          | < 5.0           | < 1.1             | 12.3 J          | < 5.0   | < 1.0           | 0.80 J         |
| MW-20C   | 9/24/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | 5.5         | < 2.4          | < 5.0           | < 1.1             | 11.5 J          | < 5.0   | < 1.0           | 0.64 J         |
| MW-21A   | 10/4/2016  |                     | < 1.0                            | 0.44 J            | 10.3        | 3.0      | < 1.0              | 5.8         | < 1.0          | 0.67 J          | < 1.0             | 285             | 0.82 J  | < 1.0           | < 1.0          |
| MW-21A   | 10/11/2017 |                     | < 10.0                           | < 10.0            | < 20.0      | < 10.0   | < 10.0             | < 50.0      | < 10.0         | < 10.0          | < 10.0            | 189             | < 10.0  | 5.4 J           | < 10.0         |
| MW-21A   | 10/22/2018 |                     | < 5.0                            | 0.68 J            | 10.6        | 2.1      | < 5.0              | 14.0        | < 2.4          | 0.86 J          | < 1.1             | 130             | 0.71 J  | < 1.0           | < 1.0          |
| MW-21A   | 9/25/2019  |                     | < 5.0                            | 0.60 J            | 6.8         | 1.7      | < 5.0              | 8.2         | < 2.4          | 0.93 J          | < 1.1             | 208             | 0.65 J  | < 1.0           | < 1.0          |
| MW-25B   | 10/4/2016  |                     | 0.53 J                           | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | 0.83 J         |
| MW-25B   | 10/10/2017 |                     | 0.47 J                           | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | 1.4            |
| MW-25B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | 1.6            |
| MW-25B   | 9/24/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | 1.4            |
| MW-26B   | 10/3/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | < 1.0          |
| MW-26B   | 10/9/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | < 1.0          |
| MW-26B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | < 1.0          |
| MW-26B   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | 2.9 J           | < 5.0   | < 1.0           | 0.52 J         |

**Table 7**  
**Summary of Detected Compounds**  
**Former City of Rhinelander Landfill**  
**Rhinelander, Wisconsin**

| Location | Date       | WES<br>PAL<br>QA/QC | Dichlorodifluoromethane (CFC-12) | Isopropyl benzene | m&p-Xylenes | o-Xylene | Methylene chloride | Naphthalene | N-Butylbenzene | N-Propylbenzene | Tetrachloroethene | Tetrahydrofuran | Toluene | Trichloroethene | Vinyl chloride |
|----------|------------|---------------------|----------------------------------|-------------------|-------------|----------|--------------------|-------------|----------------|-----------------|-------------------|-----------------|---------|-----------------|----------------|
|          |            |                     | ug/L                             | ug/L              | ug/L        | ug/L     | ug/L               | ug/L        | ug/L           | ug/L            | ug/L              | ug/L            | ug/L    | ug/L            | ug/L           |
|          |            |                     | 1000                             | --                | 2000        | 5        | 100                | --          | --             | 5               | 50                | 800             | 5       | 0.2             |                |
|          |            |                     | 200                              | --                | 400         | 0.5      | 10                 | --          | --             | 0.5             | 10                | 160             | 0.5     | 0.02            |                |
| MW-26C   | 10/3/2016  |                     | 0.36 J                           | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | 4.6            |
| MW-26C   | 10/9/2017  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | 4.8            |
| MW-26C   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | 5.1            |
| MW-26C   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | 16.3 J          | < 5.0   | < 1.0           | 3.7            |
| MW-27B   | 10/4/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | < 1.0          |
| MW-27B   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | < 5.0           | < 1.0   | < 1.0           | < 1.0          |
| MW-27B   | 10/23/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | < 1.0          |
| MW-27B   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | < 20.0          | < 5.0   | < 1.0           | < 1.0          |
| MW-28A   | 6/30/2016  |                     | < 1.0                            | 0.15 J            | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | 59.3            | < 1.0   | < 1.0           | 2.4            |
| MW-28A   | 10/4/2016  |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | 11.3            | < 1.0   | < 1.0           | < 1.0          |
| MW-28A   | 10/10/2017 |                     | < 1.0                            | < 1.0             | < 2.0       | < 1.0    | < 1.0              | < 5.0       | < 1.0          | < 1.0           | < 1.0             | 19.0            | < 1.0   | < 1.0           | 1.5            |
| MW-28A   | 10/22/2018 |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | 29.4            | < 5.0   | < 1.0           | 1.0            |
| MW-28A   | 9/25/2019  |                     | < 5.0                            | < 5.0             | < 2.0       | < 1.0    | < 5.0              | < 5.0       | < 2.4          | < 5.0           | < 1.1             | 10.1 J          | < 5.0   | < 1.0           | 0.84 J         |

Notes:

- WES - Wisconsin Enforcement Standard
- PAL - Preventative Action Limit
- Outlined cells exceed WES
- ug/L - Micrograms per Liter
- mg/L - Milligrams per Liter
- D - Duplicate Sample
- J- - Estimated Concentration, may be biased low
- J - Estimated Concentration

# Appendix A

## Surface Water Sampling Laboratory Reports and Data Validation

October 08, 2019

Grant Anderson  
GHD Services; St. Paul  
1801 Old Highway 8 Northwest  
Suite 114  
Saint Paul, MN 55112

RE: Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

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| Lab ID      | Sample ID         | Matrix | Date Collected | Date Received  |
|-------------|-------------------|--------|----------------|----------------|
| 40195833001 | W-190924-RA-SW-20 | Water  | 09/24/19 12:50 | 09/25/19 09:30 |
| 40195833002 | W-190924-RA-SW-28 | Water  | 09/24/19 13:01 | 09/25/19 09:30 |
| 40195833003 | W-190924-RA-SW-10 | Water  | 09/24/19 13:20 | 09/25/19 09:30 |

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### SAMPLE ANALYTE COUNT

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

| Lab ID      | Sample ID         | Method    | Analysts | Analytes Reported |
|-------------|-------------------|-----------|----------|-------------------|
| 40195833001 | W-190924-RA-SW-20 | EPA 6010  | TXW      | 6                 |
|             |                   | SM 9222D  | DEY      | 1                 |
|             |                   | EPA 300.0 | HMB      | 1                 |
|             |                   | EPA 350.1 | TMK      | 1                 |
|             |                   | EPA 351.2 | TMK      | 1                 |
|             |                   | EPA 353.2 | DAW      | 1                 |
|             |                   | EPA 410.4 | TJJ      | 1                 |
| 40195833002 | W-190924-RA-SW-28 | EPA 6010  | TXW      | 6                 |
|             |                   | SM 9222D  | DEY      | 1                 |
|             |                   | EPA 300.0 | HMB      | 1                 |
|             |                   | EPA 350.1 | TMK      | 1                 |
|             |                   | EPA 351.2 | TMK      | 1                 |
|             |                   | EPA 353.2 | DAW      | 1                 |
|             |                   | EPA 410.4 | TJJ      | 1                 |
| 40195833003 | W-190924-RA-SW-10 | EPA 6010  | TXW      | 6                 |
|             |                   | SM 9222D  | DEY      | 1                 |
|             |                   | EPA 300.0 | HMB      | 1                 |
|             |                   | EPA 350.1 | TMK      | 1                 |
|             |                   | EPA 351.2 | TMK      | 1                 |
|             |                   | EPA 353.2 | DAW      | 1                 |
|             |                   | EPA 410.4 | TJJ      | 1                 |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

**Sample: W-190924-RA-SW-20**      **Lab ID: 40195833001**      Collected: 09/24/19 12:50      Received: 09/25/19 09:30      Matrix: Water

| Parameters                           | Results | Units  | LOQ  | LOD   | DF   | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------|---------|--|------|-------|------|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>                  |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010   |      |       |      |                |                |            |      |
| Copper                               | <3.4    | ug/L   | 11.2 | 3.4   | 1    | 09/30/19 13:22 | 10/01/19 19:11 | 7440-50-8  |      |
| Iron                                 | 5320    | ug/L   | 117  | 35.2  | 1    | 09/30/19 13:22 | 10/01/19 19:11 | 7439-89-6  |      |
| Lead                                 | <5.9    | ug/L   | 19.7 | 5.9   | 1    | 09/30/19 13:22 | 10/01/19 19:11 | 7439-92-1  |      |
| Sodium                               | 25300   | ug/L   | 1170 | 350   | 1    | 09/30/19 13:22 | 10/01/19 19:11 | 7440-23-5  |      |
| Total Hardness by 2340B              | 101     | mg/L   | 2.0  | 0.15  | 1    | 09/30/19 13:22 | 10/01/19 19:11 |            |      |
| Zinc                                 | 12.4J   | ug/L   | 40.0 | 11.6  | 1    | 09/30/19 13:22 | 10/01/19 19:11 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b>  |         | Analytical Method: SM 9222D Preparation Method: SM 9222D   |      |       |      |                |                |            |      |
| Fecal Coliforms                      | 29.3    | CFU/100 mL   | 2.4  | 2.4   | 2.44 | 09/25/19 11:50 | 09/25/19 11:50 |            | H3   |
| <b>300.0 IC Anions</b>               |         | Analytical Method: EPA 300.0                               |      |       |      |                |                |            |      |
| Chloride                             | 59.8    | mg/L   | 10.0 | 2.5   | 5    |                | 09/27/19 15:45 | 16887-00-6 |      |
| <b>350.1 Ammonia</b>                 |         | Analytical Method: EPA 350.1                               |      |       |      |                |                |            |      |
| Nitrogen, Ammonia                    | 1.2     | mg/L   | 0.50 | 0.25  | 1    |                | 09/26/19 17:34 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> |         | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 |      |       |      |                |                |            |      |
| Nitrogen, Kjeldahl, Total            | 1.6     | mg/L   | 0.73 | 0.22  | 1    | 09/27/19 11:35 | 09/27/19 18:22 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |         | Analytical Method: EPA 353.2                               |      |       |      |                |                |            |      |
| Nitrogen, NO2 plus NO3               | 0.23J   | mg/L   | 0.25 | 0.095 | 1    |                | 09/25/19 13:28 |            |      |
| <b>410.4 COD</b>                     |         | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 |      |       |      |                |                |            |      |
| Chemical Oxygen Demand               | 19.7J   | mg/L   | 44.8 | 13.4  | 1    | 10/02/19 07:55 | 10/02/19 10:42 |            |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

**Sample: W-190924-RA-SW-28**      **Lab ID: 40195833002**      Collected: 09/24/19 13:01      Received: 09/25/19 09:30      Matrix: Water

| Parameters                           | Results         | Units  | LOQ  | LOD   | DF   | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------|-----------------|--|------|-------|------|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>                  |                 | Analytical Method: EPA 6010 Preparation Method: EPA 3010   |      |       |      |                |                |            |      |
| Copper                               | <b>4.0J</b>     | ug/L   | 11.2 | 3.4   | 1    | 09/30/19 13:22 | 10/01/19 19:13 | 7440-50-8  |      |
| Iron                                 | <b>12900</b>    | ug/L   | 117  | 35.2  | 1    | 09/30/19 13:22 | 10/01/19 19:13 | 7439-89-6  |      |
| Lead                                 | <b>&lt;5.9</b>  | ug/L   | 19.7 | 5.9   | 1    | 09/30/19 13:22 | 10/01/19 19:13 | 7439-92-1  |      |
| Sodium                               | <b>40200</b>    | ug/L   | 1170 | 350   | 1    | 09/30/19 13:22 | 10/01/19 19:13 | 7440-23-5  |      |
| Total Hardness by 2340B              | <b>278</b>      | mg/L   | 2.0  | 0.15  | 1    | 09/30/19 13:22 | 10/01/19 19:13 |            |      |
| Zinc                                 | <b>&lt;11.6</b> | ug/L   | 40.0 | 11.6  | 1    | 09/30/19 13:22 | 10/01/19 19:13 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b>  |                 | Analytical Method: SM 9222D Preparation Method: SM 9222D   |      |       |      |                |                |            |      |
| Fecal Coliforms                      | <b>18.0</b>     | CFU/100 mL   | 9.0  | 9.0   | 9.01 | 09/25/19 11:50 | 09/25/19 11:50 |            | H3   |
| <b>300.0 IC Anions</b>               |                 | Analytical Method: EPA 300.0                               |      |       |      |                |                |            |      |
| Chloride                             | <b>33.2</b>     | mg/L   | 2.0  | 0.50  | 1    |                | 09/27/19 16:00 | 16887-00-6 |      |
| <b>350.1 Ammonia</b>                 |                 | Analytical Method: EPA 350.1                               |      |       |      |                |                |            |      |
| Nitrogen, Ammonia                    | <b>87.7</b>     | mg/L   | 5.0  | 2.5   | 10   |                | 09/26/19 18:11 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> |                 | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 |      |       |      |                |                |            |      |
| Nitrogen, Kjeldahl, Total            | <b>80.2</b>     | mg/L   | 7.3  | 2.2   | 10   | 09/27/19 11:35 | 09/27/19 18:42 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |                 | Analytical Method: EPA 353.2                               |      |       |      |                |                |            |      |
| Nitrogen, NO2 plus NO3               | <b>0.21J</b>    | mg/L   | 0.25 | 0.095 | 1    |                | 09/25/19 13:29 |            |      |
| <b>410.4 COD</b>                     |                 | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 |      |       |      |                |                |            |      |
| Chemical Oxygen Demand               | <b>90.6</b>     | mg/L   | 44.8 | 13.4  | 1    | 10/02/19 07:55 | 10/02/19 10:42 |            |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

**Sample: W-190924-RA-SW-10**      **Lab ID: 40195833003**      Collected: 09/24/19 13:20      Received: 09/25/19 09:30      Matrix: Water

| Parameters                           | Results | Units  | LOQ  | LOD   | DF   | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------|---------|--|------|-------|------|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>                  |         | Analytical Method: EPA 6010 Preparation Method: EPA 3010   |      |       |      |                |                |            |      |
| Copper                               | <3.4    | ug/L   | 11.2 | 3.4   | 1    | 09/30/19 13:22 | 10/01/19 19:16 | 7440-50-8  |      |
| Iron                                 | 5150    | ug/L   | 117  | 35.2  | 1    | 09/30/19 13:22 | 10/01/19 19:16 | 7439-89-6  |      |
| Lead                                 | <5.9    | ug/L   | 19.7 | 5.9   | 1    | 09/30/19 13:22 | 10/01/19 19:16 | 7439-92-1  |      |
| Sodium                               | 21200   | ug/L   | 1170 | 350   | 1    | 09/30/19 13:22 | 10/01/19 19:16 | 7440-23-5  |      |
| Total Hardness by 2340B              | 66.9    | mg/L   | 2.0  | 0.15  | 1    | 09/30/19 13:22 | 10/01/19 19:16 |            |      |
| Zinc                                 | <11.6   | ug/L   | 40.0 | 11.6  | 1    | 09/30/19 13:22 | 10/01/19 19:16 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b>  |         | Analytical Method: SM 9222D Preparation Method: SM 9222D   |      |       |      |                |                |            |      |
| Fecal Coliforms                      | 29.4    | CFU/100 mL   | 2.0  | 2.0   | 1.96 | 09/25/19 11:50 | 09/25/19 11:50 |            | H3   |
| <b>300.0 IC Anions</b>               |         | Analytical Method: EPA 300.0                               |      |       |      |                |                |            |      |
| Chloride                             | 42.8    | mg/L   | 2.0  | 0.50  | 1    |                | 09/27/19 16:20 | 16887-00-6 |      |
| <b>350.1 Ammonia</b>                 |         | Analytical Method: EPA 350.1                               |      |       |      |                |                |            |      |
| Nitrogen, Ammonia                    | <0.25   | mg/L   | 0.50 | 0.25  | 1    |                | 09/26/19 17:37 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> |         | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 |      |       |      |                |                |            |      |
| Nitrogen, Kjeldahl, Total            | 0.48J   | mg/L   | 0.73 | 0.22  | 1    | 09/27/19 11:35 | 09/27/19 18:25 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |         | Analytical Method: EPA 353.2                               |      |       |      |                |                |            |      |
| Nitrogen, NO2 plus NO3               | 0.10J   | mg/L   | 0.25 | 0.095 | 1    |                | 09/25/19 13:29 |            |      |
| <b>410.4 COD</b>                     |         | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 |      |       |      |                |                |            |      |
| Chemical Oxygen Demand               | 30.4J   | mg/L   | 44.8 | 13.4  | 1    | 10/02/19 07:55 | 10/02/19 10:42 |            |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335792 Analysis Method: SM 9222D  
QC Batch Method: SM 9222D Analysis Description: 9222D MICRO Fecal Coliform by MF  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1949895 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 09/25/19 11:50 |            |

METHOD BLANK: 1949897 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 09/25/19 11:50 |            |

METHOD BLANK: 1949898 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 09/25/19 15:45 |            |

METHOD BLANK: 1949899 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 09/25/19 16:20 |            |

SAMPLE DUPLICATE: 1949896

| Parameter       | Units      | 40195833001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------|------------|--------------------|------------|-----|---------|------------|
| Fecal Coliforms | CFU/100 mL | 29.3               | 31.7       |     |         |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335727 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1949603 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter               | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------------|-------|--------------|-----------------|----------------|------------|
| Copper                  | ug/L  | <3.4         | 11.2            | 10/01/19 18:45 |            |
| Iron                    | ug/L  | <35.2        | 117             | 10/01/19 18:45 |            |
| Lead                    | ug/L  | <5.9         | 19.7            | 10/01/19 18:45 |            |
| Sodium                  | ug/L  | <350         | 1170            | 10/01/19 18:45 |            |
| Total Hardness by 2340B | mg/L  | <0.15        | 2.0             | 10/01/19 18:45 |            |
| Zinc                    | ug/L  | <11.6        | 40.0            | 10/01/19 18:45 |            |

LABORATORY CONTROL SAMPLE: 1949604

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| Copper                  | ug/L  | 500         | 487        | 97        | 80-120       |            |
| Iron                    | ug/L  | 5000        | 5180       | 104       | 80-120       |            |
| Lead                    | ug/L  | 500         | 517        | 103       | 80-120       |            |
| Sodium                  | ug/L  | 5000        | 5110       | 102       | 80-120       |            |
| Total Hardness by 2340B | mg/L  |             | 34.3       |           |              |            |
| Zinc                    | ug/L  | 500         | 529        | 106       | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949605 1949606

| Parameter               | Units | MS                 |             | MSD         |        | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD   | Max RPD | Qual |
|-------------------------|-------|--------------------|-------------|-------------|--------|-----------|------------|----------|-----------|--------------|-------|---------|------|
|                         |       | 40195789001 Result | Spike Conc. | Spike Conc. | Conc.  |           |            |          |           |              |       |         |      |
| Copper                  | ug/L  | 80.7               | 500         | 500         | 581    | 567       | 100        | 97       | 75-125    | 2            | 20    |         |      |
| Iron                    | ug/L  | 23000              | 5000        | 5000        | 27200  | 27600     | 84         | 92       | 75-125    | 1            | 20    |         |      |
| Lead                    | ug/L  | <5.9               | 500         | 500         | 510    | 489       | 101        | 97       | 75-125    | 4            | 20    |         |      |
| Sodium                  | ug/L  | 483000             | 5000        | 5000        | 481000 | 487000    | -48        | 72       | 75-125    | 1            | 20 P6 |         |      |
| Total Hardness by 2340B | mg/L  | 934000             |             |             | 933    | 949       |            |          |           | 2            | 20    |         |      |
| Zinc                    | ug/L  | 92.2               | 500         | 500         | 588    | 582       | 99         | 98       | 75-125    | 1            | 20    |         |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335263 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1946255 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | <0.50        | 2.0             | 09/26/19 20:09 |            |

LABORATORY CONTROL SAMPLE: 1946256

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 20          | 21.6       | 108       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946257 1946258

| Parameter | Units | 40195838001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    |                |                 |           |            |          |           |              |     |         |      |
| Chloride  | mg/L  | 63.7               | 200            | 200             | 284       | 285        | 110      | 111       | 90-110       | 0   | 15      | M0   |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946259 1946260

| Parameter | Units | 40195844001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    |                |                 |           |            |          |           |              |     |         |      |
| Chloride  | mg/L  | 26.1               | 20             | 20              | 47.0      | 47.0       | 105      | 105       | 90-110       | 0   | 15      |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335378 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1946965 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.25        | 0.50            | 09/26/19 17:29 |            |

LABORATORY CONTROL SAMPLE: 1946966

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 10          | 10.3       | 103       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946967 1946968

| Parameter         | Units | 40195314001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Nitrogen, Ammonia | mg/L  | <0.25              | 10             | 10              | 9.9       | 9.9        | 98       | 98        | 90-110       | 0   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335536 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1947756 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | <0.22        | 0.73            | 09/27/19 18:09 |            |

LABORATORY CONTROL SAMPLE: 1947757

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | 5           | 4.7        | 94        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1947758 1947759

| Parameter                 | Units | 40195833001 Result | MS          |           | MSD        |                 | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|--------------------|-------------|-----------|------------|-----------------|----------|-----------|--------------|-----|---------|------|
|                           |       |                    | Spike Conc. | MS Result | MSD Result | MSD Spike Conc. |          |           |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 1.6                | 5           | 5         | 6.3        | 6.5             | 94       | 99        | 90-110       | 4   | 20      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1947760 1947761

| Parameter                 | Units | 40195844001 Result | MS          |           | MSD        |                 | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|--------------------|-------------|-----------|------------|-----------------|----------|-----------|--------------|-----|---------|------|
|                           |       |                    | Spike Conc. | MS Result | MSD Result | MSD Spike Conc. |          |           |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 0.48J              | 5           | 5.1       | 5.0        | 93              | 90       | 90-110    | 3            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

QC Batch: 335242

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, preserved

Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1946181

Matrix: Water

Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, NO2 plus NO3 | mg/L  | <0.095       | 0.25            | 09/25/19 13:21 |            |

LABORATORY CONTROL SAMPLE: 1946182

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, NO2 plus NO3 | mg/L  | 2.5         | 2.6        | 102       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1946183 1946184

| Parameter              | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                        |       | 40195833003 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| Nitrogen, NO2 plus NO3 | mg/L  | 0.10J              | 2.5         | 2.5         | 2.4   | 2.4       | 93         | 94       | 90-110    | 0            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

QC Batch: 335973 Analysis Method: EPA 410.4  
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

METHOD BLANK: 1950948 Matrix: Water  
Associated Lab Samples: 40195833001, 40195833002, 40195833003

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Chemical Oxygen Demand | mg/L  | <13.4        | 44.8            | 10/02/19 10:41 |            |

LABORATORY CONTROL SAMPLE: 1950949

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chemical Oxygen Demand | mg/L  | 500         | 493        | 99        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950950 1950951

| Parameter              | Units | MS     |       | MSD         |             | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------|-------|--------|-------|-------------|-------------|----------|-----------|--------------|--------|---------|------|
|                        |       | Result | Conc. | Spike Conc. | Spike Conc. |          |           |              |        |         |      |
| Chemical Oxygen Demand | mg/L  | 97.6   | 526   | 526         | 632         | 625      | 101       | 100          | 90-110 | 1       | 10   |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950952 1950953

| Parameter              | Units | MS     |       | MSD         |             | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------|-------|--------|-------|-------------|-------------|----------|-----------|--------------|--------|---------|------|
|                        |       | Result | Conc. | Spike Conc. | Spike Conc. |          |           |              |        |         |      |
| Chemical Oxygen Demand | mg/L  | 29.7J  | 526   | 526         | 550         | 548      | 99        | 98           | 90-110 | 0       | 10   |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40195833

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40195833

| Lab ID      | Sample ID         | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|-----------------|----------|-------------------|------------------|
| 40195833001 | W-190924-RA-SW-20 | EPA 3010        | 335727   | EPA 6010          | 335870           |
| 40195833002 | W-190924-RA-SW-28 | EPA 3010        | 335727   | EPA 6010          | 335870           |
| 40195833003 | W-190924-RA-SW-10 | EPA 3010        | 335727   | EPA 6010          | 335870           |
| 40195833001 | W-190924-RA-SW-20 | SM 9222D        | 335791   | SM 9222D          | 335792           |
| 40195833002 | W-190924-RA-SW-28 | SM 9222D        | 335791   | SM 9222D          | 335792           |
| 40195833003 | W-190924-RA-SW-10 | SM 9222D        | 335791   | SM 9222D          | 335792           |
| 40195833001 | W-190924-RA-SW-20 | EPA 300.0       | 335263   |                   |                  |
| 40195833002 | W-190924-RA-SW-28 | EPA 300.0       | 335263   |                   |                  |
| 40195833003 | W-190924-RA-SW-10 | EPA 300.0       | 335263   |                   |                  |
| 40195833001 | W-190924-RA-SW-20 | EPA 350.1       | 335378   |                   |                  |
| 40195833002 | W-190924-RA-SW-28 | EPA 350.1       | 335378   |                   |                  |
| 40195833003 | W-190924-RA-SW-10 | EPA 350.1       | 335378   |                   |                  |
| 40195833001 | W-190924-RA-SW-20 | EPA 351.2       | 335536   | EPA 351.2         | 335601           |
| 40195833002 | W-190924-RA-SW-28 | EPA 351.2       | 335536   | EPA 351.2         | 335601           |
| 40195833003 | W-190924-RA-SW-10 | EPA 351.2       | 335536   | EPA 351.2         | 335601           |
| 40195833001 | W-190924-RA-SW-20 | EPA 353.2       | 335242   |                   |                  |
| 40195833002 | W-190924-RA-SW-28 | EPA 353.2       | 335242   |                   |                  |
| 40195833003 | W-190924-RA-SW-10 | EPA 353.2       | 335242   |                   |                  |
| 40195833001 | W-190924-RA-SW-20 | EPA 410.4       | 335973   | EPA 410.4         | 336057           |
| 40195833002 | W-190924-RA-SW-28 | EPA 410.4       | 335973   | EPA 410.4         | 336057           |
| 40195833003 | W-190924-RA-SW-10 | EPA 410.4       | 335973   | EPA 410.4         | 336057           |

**REPORT OF LABORATORY ANALYSIS**

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

Company Name: **GHQ**  
 Branch/Location: **St. Paul**  
 Project Contact: **Grant Anderson**  
 Phone: **651-639-0913**  
 Project Number: **1115296-40**  
 Project Name: **Rhinalder LF**  
 Project State: **WI**  
 Sampled By (Print): **Ryan Arnot**  
 Sampled By (Sign): *[Signature]*  
 PO #: **SSOW** Regulatory Program:



### CHAIN OF CUSTODY

**Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N                | N  | N | N | N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pick Letter        | A  | C | A | D |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Analyses Requested | <i>Recal California</i><br><i>COD</i><br><i>Ammonia, TN, NPN</i><br><i>Chloride</i><br><i>Metals: Hg, Pb, Ni, Cu</i> |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Quote #: **See SSOW**  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:  
 CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #

*Sample times are not on bottles*

*201*

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID   | COLLECTION |      | MATRIX |
|------------|-------------------|------------|------|--------|
|            |                   | DATE       | TIME |        |
| 001        | W-190924-RA-SV-20 | 9/24/19    | 1250 | SW     |
| 002        | W-190924-RA-SV-28 |            | 1301 |        |
| 003        | W-190924-RA-SV-10 |            | 1320 |        |

Rush Turnaround Time Requested - Prelims  
 (Rush TAT subject to approval/surcharge)  
 Date Needed:  
 Transmit Prelim Rush Results by (complete what you want):  
 Email #1:  
 Email #2:  
 Telephone:  
 Fax:  
 Samples on HOLD are subject to special pricing and release of liability

|                                     |                                |                                 |                                |
|-------------------------------------|--------------------------------|---------------------------------|--------------------------------|
| Relinquished By: <i>[Signature]</i> | Date/Time: <b>1350 9/24/19</b> | Received By:                    | Date/Time:                     |
| Relinquished By: <i>Fedex</i>       | Date/Time: <b>9/25/19 0930</b> | Received By: <i>[Signature]</i> | Date/Time: <b>9/25/19 0930</b> |
| Relinquished By:                    | Date/Time:                     | Received By:                    | Date/Time:                     |
| Relinquished By:                    | Date/Time:                     | Received By:                    | Date/Time:                     |

PACE Project No. **40195833**  
 Receipt Temp = **201** °C  
 Sample Receipt pH **OK** Adjusted  
 Cooler Custody Seal  
 Present **(Not Present)**  
 Intact / Not Intact

40195833

Page 17 of 19

### Sample Preservation Receipt Form

Client Name: COAD

Project # 40195833

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper: WUSOPN Lab Std #ID of preservation (if pH adjusted):

Initial when completed: DM Date/Time:

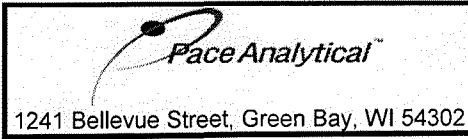
| Pace Lab # | Glass |      |      |      |      |      | Plastic |      |      |      |      |      | Vials |      |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤ | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤ | pH after adjusted | Volume (mL) |      |      |    |  |              |              |
|------------|-------|------|------|------|------|------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|---------|------|------|--------------------|------------|-------------------|-------------|-----------|-------------------|-------------|------|------|----|--|--------------|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U    | BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N  | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU    | WGFU | WPFU |                    |            |                   |             |           |                   |             | SP5T | ZPLC | GN |  |              |              |
| 001        |       |      |      |      |      |      |         |      |      | -    |      | -    | -     |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  |              | 2.5 / 5 / 10 |
| 002        |       |      |      |      |      |      |         |      |      | -    |      | -    | -     |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 003        |       |      |      |      |      |      |         |      |      | -    |      | -    | -     |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 004        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 005        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 006        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 007        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 008        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 009        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 010        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 011        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 012        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 013        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 014        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 015        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 016        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 017        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 018        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 019        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |
| 020        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |            |                   |             |           |                   |             |      |      |    |  | 2.5 / 5 / 10 |              |

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

|                                |                                 |                              |                                    |
|--------------------------------|---------------------------------|------------------------------|------------------------------------|
| AG1U 1 liter amber glass       | BP1U 1 liter plastic unpres     | DG9A 40 mL amber ascorbic    | JGFU 4 oz amber jar unpres         |
| AG1H 1 liter amber glass HCL   | BP2N 500 mL plastic HNO3        | DG9T 40 mL amber Na Thio     | WGFU 4 oz clear jar unpres         |
| AG4S 125 mL amber glass H2SO4  | BP2Z 500 mL plastic NaOH, Znact | VG9U 40 mL clear vial unpres | WPFU 4 oz plastic jar unpres       |
| AG4U 120 mL amber glass unpres | BP3U 250 mL plastic unpres      | VG9H 40 mL clear vial HCL    |                                    |
| AG5U 100 mL amber glass unpres | BP3B 250 mL plastic NaOH        | VG9M 40 mL clear vial MeOH   | SP5T 120 mL plastic Na Thiosulfate |
| AG2S 500 mL amber glass H2SO4  | BP3N 250 mL plastic HNO3        | VG9D 40 mL clear vial DI     | ZPLC ziploc bag                    |
| BG3U 250 mL clear glass unpres | BP3S 250 mL plastic H2SO4       |                              | GN:                                |





Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
 F-GB-C-031-Rev.07

Document Revised: 25Apr2018  
 Issuing Authority:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

Project #: \_\_\_\_\_

Client Name: GHD

**WO# : 40195833**



Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 8142 2608 2162

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - NA Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RO1 / Corr: \_\_\_\_\_

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:  
 Date: 9/25/19  
 Initials: [Signature]

Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C.

|  |  |            |
|--|--|------------|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.         |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.         |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.         |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.         |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.         |
| - VOA Samples frozen upon receipt  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Date/Time: |
| Short Hold Time Analysis (<72hr):  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 6.         |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 7.         |
| Sufficient Volume:   |  | 8.         |
| For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |            |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.         |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |            |
| -Pace IR Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |            |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.        |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.        |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.        |
| -Includes date/time/ID/Analysis Matrix: <u>W</u>   |  |            |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.        |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |            |
| Pace Trip Blank Lot # (if purchased): _____  |  |            |

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: AL for DM

Date: 9/25/19





# Memorandum

December 19, 2019

To: Ryan Aamot, GHD

Ref. No.: 11115796-30

From:  Grant Anderson/sb/3

Tel: (651) 639-0913

**Subject: Analytical Results and Reduced Data Validation  
Groundwater and Surface Water Sampling Event  
Rhinelanders Landfill Site – Rhinelanders, Wisconsin  
September 2019**

## 1. Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the monitoring event at the Rhinelanders Landfill Site in Rhinelanders, Wisconsin during September 2019. Samples were submitted to Pace Analytical Services, Inc. (Pace), located in Green Bay, Wisconsin. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services, Inc. (GHD) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike samples (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "National Functional Guidelines for Organic Superfund Methods Data Review," EPA-540-R-2017-002, January 2017
- ii) "National Functional Guidelines for Inorganic Superfund Methods Data Review," EPA-540-R-2017-001, January 2017

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. The sample chain of custody documents and analytical reports were used to determine sample holding times. With the exception of fecal coliform bacteria analyses, all samples were analyzed within the required holding times. Table 4 lists the holding time exceedances. Associated sample data are qualified as noted in the table.



All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C). The vial used for VOC analysis of sample MW-2A contained an air bubble greater than 6mm. As a result, the associated sample results are qualified estimated as noted in Table 5.

### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

Laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Hardness and chloride were detected in the method blanks. However, in both cases the associated sample results were sufficiently high enough that qualification of data was not necessary. The remaining method blank results were non-detect.

### 4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

### 5. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

#### *Organic Analyses*

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

#### *Inorganic Analyses*

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.



## 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

### *Organic Analyses*

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the acceptance criteria, demonstrating acceptable analytical accuracy and precision.

### *Inorganic Analyses*

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within acceptance criteria, demonstrating acceptable analytical accuracy and precision.

## 7. Field QA/QC Samples

The field QA/QC samples consisted of one trip blank sample, one field blank sample and one field duplicate sample set.

### *Trip Blank Sample Analysis*

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

### *Field Blank Sample Analysis*

To assess ambient conditions at the site and cleanliness of sample containers, a field blank was submitted for analysis, as identified in Table 1. With the exception of hardness and toluene, all results were non-detect for the analytes of interest. Associated hardness results were sufficiently high enough and toluene was not detected in any associated samples; therefore, no qualification of data was necessary based on analytes detected in the field blank.

### *Field Duplicate Sample Analysis*

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.



All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

## 8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

## 9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

**Sample Collection and Analysis Summary**  
**Groundwater and Surface Water Sampling Event**  
**Rhineland Landfill Site**  
**Rhineland, Wisconsin**  
**September 2019**

| Sample Identification | Location    | Matrix | Collection Date<br>(mm/dd/yyyy) | Collection Time<br>(hr:min) | Analysis/Parameters |                       |                           |          |                 |          |            |         |                         | Comments |                        |                       |
|-----------------------|-------------|--------|---------------------------------|-----------------------------|---------------------|-----------------------|---------------------------|----------|-----------------|----------|------------|---------|-------------------------|----------|------------------------|-----------------------|
|                       |             |        |                                 |                             | VOC                 | Select Metals (total) | Select Metals (dissolved) | Hardness | Fecal Coliforms | Chloride | Alkalinity | Ammonia | Total Kjeldahl Nitrogen |          | Chemical Oxygen Demand | Nitrate/Nitrite       |
| W-190924-RA-SW-20     | SW-20       | water  | 09/24/2019                      | 12:50                       |                     | x                     |                           | x        | x               | x        |            | x       | x                       | x        | x                      |                       |
| W-190924-RA-SW-28     | SW-28       | water  | 09/24/2019                      | 13:01                       |                     | x                     |                           | x        | x               | x        |            | x       | x                       | x        | x                      |                       |
| W-190924-RA-SW-10     | SW-10       | water  | 09/24/2019                      | 13:20                       |                     | x                     |                           | x        | x               | x        |            | x       | x                       | x        | x                      |                       |
| MW-20C                | MW-20C      | water  | 09/24/2019                      | 16:00                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-20B                | MW-20B      | water  | 09/24/2019                      | 16:02                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-4A                 | MW-4A       | water  | 09/24/2019                      | 14:16                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-5A                 | MW-5A       | water  | 09/24/2019                      | 14:35                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-25B                | MW-25B      | water  | 09/24/2019                      | 15:28                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-20A                | MW-20A      | water  | 09/24/2019                      | 16:11                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-16A                | MW-16A      | water  | 09/25/2019                      | 09:44                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-16A DUP            | MW-16A DUP  | water  | 09/25/2019                      | 09:44                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        | Duplicate (MW-16A)    |
| MW-16B                | MW-16B      | water  | 09/25/2019                      | 09:44                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| FIELD BLANK           | FIELD BLANK | water  | 09/25/2019                      | 09:44                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        | Field Blank<br>MS/MSD |
| MW-16C                | MW-16C      | water  | 09/25/2019                      | 10:07                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-18A                | MW-18A      | water  | 09/25/2019                      | 10:26                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-18B                | MW-18B      | water  | 09/25/2019                      | 10:23                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-18C                | MW-18C      | water  | 09/25/2019                      | 11:38                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |
| MW-26B                | MW-26B      | water  | 09/25/2019                      | 11:09                       | x                   |                       | x                         | x        |                 | x        | x          |         |                         |          |                        |                       |

Table 1

**Sample Collection and Analysis Summary**  
**Groundwater and Surface Water Sampling Event**  
**Rhineland Landfill Site**  
**Rhineland, Wisconsin**  
**September 2019**

| Sample Identification | Location   | Matrix | Collection Date<br>(mm/dd/yyyy) | Collection Time<br>(hr:min) | Analysis/Parameters |                       |                           |          |                 |          |            |         |                         |                        |                 | Comments |  |            |
|-----------------------|------------|--------|---------------------------------|-----------------------------|---------------------|-----------------------|---------------------------|----------|-----------------|----------|------------|---------|-------------------------|------------------------|-----------------|----------|--|------------|
|                       |            |        |                                 |                             | VOC                 | Select Metals (total) | Select Metals (dissolved) | Hardness | Fecal Coliforms | Chloride | Alkalinity | Ammonia | Total Kjeldahl Nitrogen | Chemical Oxygen Demand | Nitrate/Nitrite |          |  |            |
| MW-26C                | MW-26C     | water  | 09/25/2019                      | 11:10                       | x                   | x                     | x                         |          | x               | x        |            |         |                         |                        |                 |          |  |            |
| MW-28A                | MW-28A     | water  | 09/25/2019                      | 12:32                       | x                   | x                     | x                         |          | x               | x        |            |         |                         |                        |                 |          |  |            |
| MW-27B                | MW-27B     | water  | 09/25/2019                      | 12:36                       | x                   | x                     | x                         |          | x               | x        |            |         |                         |                        |                 |          |  |            |
| MW-21A                | MW-21A     | water  | 09/25/2019                      | 13:44                       | x                   | x                     | x                         |          | x               | x        | x          | x       |                         |                        |                 |          |  |            |
| MW-2A                 | MW-2A      | water  | 09/25/2019                      | 14:06                       | x                   | x                     | x                         |          | x               | x        | x          | x       |                         |                        |                 |          |  |            |
| MW-2B                 | MW-2B      | water  | 09/25/2019                      | 14:30                       | x                   | x                     | x                         |          | x               | x        |            |         |                         |                        |                 |          |  |            |
| TRIP BLANK            | TRIP BLANK | water  | 09/25/2019                      | 00:00                       | x                   |                       |                           |          |                 |          |            |         |                         |                        |                 |          |  | Trip Blank |

## Notes:

VOC - Volatile Organic Compounds

MS/MSD - Matrix Spike/Matrix Spike Duplicate

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

| Location ID: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A     | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Name: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A DUP | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
| Sample Date: | 09/25/2019 | 09/25/2019 | 09/24/2019 | 09/24/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/24/2019 |
|              |            |            |            |            |            | Duplicate  |            |            |            |            |            |            |

| Parameters                             | Unit | MW-2A   | MW-2B  | MW-4A  | MW-5A  | MW-16A | MW-16A | MW-16B | MW-16C | MW-18A | MW-18B | MW-18C | MW-20A |
|--|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Volatile Organic Compounds</b>      |      |         |        |        |        |        |        |        |        |        |        |        |        |
| 1,1,1,2-Tetrachloroethane              | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,1-Trichloroethane                  | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,2,2-Tetrachloroethane              | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,2-Trichloroethane                  | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,1-Dichloroethane                     | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 0.41 J | 0.43 J | 0.41 J | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1-Dichloroethene                     | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1-Dichloropropene                    | µg/L | 1.8 UJ  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  |
| 1,2,3-Trichlorobenzene                 | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,3-Trichloropropane                 | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,4-Trichlorobenzene                 | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,4-Trimethylbenzene                 | µg/L | 1.4 J-  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 23.7   |
| 1,2-Dibromo-3-chloropropane (DBCP)     | µg/L | 5.9 UJ  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  |
| 1,2-Dibromoethane (Ethylene dibromide) | µg/L | 2.8 UJ  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  |
| 1,2-Dichlorobenzene                    | µg/L | 2.4 UJ  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 0.85 J |
| 1,2-Dichloroethane                     | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,2-Dichloropropane                    | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,3,5-Trimethylbenzene                 | µg/L | 1.0 J-  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 4.4    |
| 1,3-Dichlorobenzene                    | µg/L | 2.1 UJ  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  |
| 1,3-Dichloropropane                    | µg/L | 2.8 UJ  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  |
| 1,4-Dichlorobenzene                    | µg/L | 3.1 UJ  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 2.0 J  |
| 2,2-Dichloropropane                    | µg/L | 7.6 UJ  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  |
| 2-Chlorotoluene                        | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 2-Phenylbutane (sec-Butylbenzene)      | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 4-Chlorotoluene                        | µg/L | 2.5 UJ  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  |
| Benzene                                | µg/L | 17.7    | 0.36 J | 1.0 U  | 1.0 U  | 1.1    | 1.1    | 1.2    | 1.1    | 1.0 U  | 1.0 U  | 1.0 U  | 2.2    |
| Bromobenzene                           | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Bromodichloromethane                   | µg/L | 1.2 UJ  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  |
| Bromoform                              | µg/L | 13.2 UJ | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U |
| Bromomethane (Methyl bromide)          | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Carbon tetrachloride                   | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Chlorobenzene                          | µg/L | 0.76 J- | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 7.2    |
| Chlorobromomethane                     | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |



**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

| Location ID: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A     | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Name: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A DUP | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
| Sample Date: | 09/25/2019 | 09/25/2019 | 09/24/2019 | 09/24/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/24/2019 |
|              |            |            |            |            |            | Duplicate  |            |            |            |            |            |            |

| Parameters                        | Unit | MW-2A   | MW-2B  | MW-4A  | MW-5A  | MW-16A | MW-16A | MW-16B | MW-16C | MW-18A | MW-18B | MW-18C | MW-20A |
|-----------------------------------|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Volatile Organic Compounds</b> |      |         |        |        |        |        |        |        |        |        |        |        |        |
| Chloroethane                      | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Chloroform (Trichloromethane)     | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Chloromethane (Methyl chloride)   | µg/L | 7.3 UJ  | 7.3 U  | 2.6 J  | 7.3 U  | 3.7 J  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 3.4 J  |
| cis-1,2-Dichloroethene            | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 4.1    | 0.83 J | 1.0    | 1.0 U  |
| cis-1,3-Dichloropropene           | µg/L | 12.1 UJ | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U |
| Cymene (p-Isopropyltoluene)       | µg/L | 2.7 UJ  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  |
| Dibromochloromethane              | µg/L | 8.7 UJ  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  |
| Dibromomethane                    | µg/L | 3.1 UJ  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  |
| Dichlorodifluoromethane (CFC-12)  | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Diisopropyl ether                 | µg/L | 6.3 UJ  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  |
| Ethylbenzene                      | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Hexachlorobutadiene               | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Isopropyl benzene                 | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 4.3 J  |
| m&p-Xylenes                       | µg/L | 2.1     | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  | 0.75 J | 2.0 U  | 2.0 U  | 2.0 U  | 53.0   |
| Methyl tert butyl ether (MTBE)    | µg/L | 4.2 UJ  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  |
| Methylene chloride                | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| N-Butylbenzene                    | µg/L | 2.4 UJ  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  |
| N-Propylbenzene                   | µg/L | 5.0 UJ  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 2.9 J  |
| Naphthalene                       | µg/L | 3.9 J-  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 3.6 J  | 5.0 U  | 5.0 U  | 5.0 U  | 18.3   |
| o-Xylene                          | µg/L | 0.51 J- | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.6    |
| Styrene                           | µg/L | 1.6 UJ  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  |
| tert-Butylbenzene                 | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Tetrachloroethene                 | µg/L | 1.1 UJ  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 0.72 J | 0.84 J | 1.1 U  |
| Tetrahydrofuran                   | µg/L | 157     | 9.3 J  | 20.0 U | 20.0 U | 20.0 U | 20.0 U | 2.8 J  | 8.2 J  | 20.0 U | 20.0 U | 20.0 U | 12.4 J |
| Toluene                           | µg/L | 0.35 J- | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 0.35 J |
| trans-1,2-Dichloroethene          | µg/L | 3.6 UJ  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  |
| trans-1,3-Dichloropropene         | µg/L | 14.6 UJ | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U |
| Trichloroethene                   | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 3.7    | 7.5    | 16.7   | 1.0 U  |
| Trichlorofluoromethane (CFC-11)   | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Vinyl chloride                    | µg/L | 1.0 UJ  | 1.0 U  | 1.0 U  | 1.0 U  | 1.1    | 1.1    | 0.27 J | 0.29 J | 0.31 J | 1.0 U  | 1.0 U  | 1.0 U  |

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

| Location ID: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A     | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Name: | MW-2A      | MW-2B      | MW-4A      | MW-5A      | MW-16A     | MW-16A DUP | MW-16B     | MW-16C     | MW-18A     | MW-18B     | MW-18C     | MW-20A     |
| Sample Date: | 09/25/2019 | 09/25/2019 | 09/24/2019 | 09/24/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/25/2019 | 09/24/2019 |
|              |            |            |            |            |            | Duplicate  |            |            |            |            |            |            |

| Parameters                    | Unit | MW-2A | MW-2B | MW-4A  | MW-5A  | MW-16A | MW-16A | MW-16B | MW-16C | MW-18A | MW-18B | MW-18C | MW-20A |
|-------------------------------|------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Metals</b>                 |      |       |       |        |        |        |        |        |        |        |        |        |        |
| Hardness, calculation         | mg/L | 890   | 208   | 144    | 958    | 249    | 245    | 241    | 252    | 271    | 395    | 356    | 264    |
| Boron (dissolved)             | µg/L | 1320  | --    | 16.3 J | 18.7 J | --     | --     | --     | --     | --     | --     | 60.8   | 813    |
| Iron (dissolved)              | µg/L | 36800 | 24600 | 100 U  | 56.4 J | 5310   | 5540   | 35600  | 28400  | 2880   | 30.7 J | 100 U  | 115000 |
| Manganese (dissolved)         | µg/L | 1060  | 1200  | 5.0 U  | 2490   | 4430   | 4430   | 3640   | 2160   | 1180   | 2330   | 1460   | 953    |
| <b>General Chemistry</b>      |      |       |       |        |        |        |        |        |        |        |        |        |        |
| Alkalinity, total (as CaCO3)  | mg/L | 1660  | 209   | 111    | 21.1 J | 225    | 230    | 228    | 239    | 177    | 216    | 158    | 446    |
| Ammonia                       | mg/L | 198   | --    | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |
| Chloride                      | mg/L | 57.0  | 37.8  | 22.4   | 1200   | 28.7   | 28.7   | 34.2   | 40.2   | 71.6   | 147    | 157    | 11.8   |
| Total kjeldahl nitrogen (TKN) | mg/L | 192   | --    | --     | --     | --     | --     | --     | --     | --     | --     | --     | --     |

Note:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- J- - Estimated concentration, may be biased low
- UJ - Not detected; associated reporting limit is estimated

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

|                     |                   |                   |                   |                   |                   |                   |                   |                   |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Location ID:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Name:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Date:</b> | <b>09/24/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> |

| <b>Parameters</b>                      | <b>Unit</b> |        |        |        |        |        |        |        |        |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Volatile Organic Compounds</b>      |             |        |        |        |        |        |        |        |        |
| 1,1,1,2-Tetrachloroethane              | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,1-Trichloroethane                  | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,2,2-Tetrachloroethane              | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1,2-Trichloroethane                  | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,1-Dichloroethane                     | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 0.80 J | 1.0 U  | 1.0 U  |
| 1,1-Dichloroethene                     | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,1-Dichloropropene                    | µg/L        | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  | 1.8 U  |
| 1,2,3-Trichlorobenzene                 | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,3-Trichloropropane                 | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,4-Trichlorobenzene                 | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 1,2,4-Trimethylbenzene                 | µg/L        | 2.8 U  | 2.8 U  | 3.5    | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  |
| 1,2-Dibromo-3-chloropropane (DBCP)     | µg/L        | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  | 5.9 U  |
| 1,2-Dibromoethane (Ethylene dibromide) | µg/L        | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  |
| 1,2-Dichlorobenzene                    | µg/L        | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  |
| 1,2-Dichloroethane                     | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,2-Dichloropropane                    | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| 1,3,5-Trimethylbenzene                 | µg/L        | 2.9 U  | 2.9 U  | 1.8 J  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  | 2.9 U  |
| 1,3-Dichlorobenzene                    | µg/L        | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  | 2.1 U  |
| 1,3-Dichloropropane                    | µg/L        | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  | 2.8 U  |
| 1,4-Dichlorobenzene                    | µg/L        | 3.1 U  | 3.1 U  | 1.9 J  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  |
| 2,2-Dichloropropane                    | µg/L        | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  | 7.6 U  |
| 2-Chlorotoluene                        | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 2-Phenylbutane (sec-Butylbenzene)      | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| 4-Chlorotoluene                        | µg/L        | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  | 2.5 U  |
| Benzene                                | µg/L        | 0.67 J | 0.90 J | 4.2    | 1.0 U  | 1.0 U  | 0.92 J | 1.0 U  | 0.55 J |
| Bromobenzene                           | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Bromodichloromethane                   | µg/L        | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  | 1.2 U  |
| Bromoform                              | µg/L        | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U | 13.2 U |
| Bromomethane (Methyl bromide)          | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Carbon tetrachloride                   | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Chlorobenzene                          | µg/L        | 0.97 J | 0.83 J | 6.7    | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  |
| Chlorobromomethane                     | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

|                     |                   |                   |                   |                   |                   |                   |                   |                   |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Location ID:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Name:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Date:</b> | <b>09/24/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> |

| <b>Parameters</b>                 | <b>Unit</b> |        |        |        |        |        |        |        |        |
|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>Volatile Organic Compounds</b> |             |        |        |        |        |        |        |        |        |
| Chloroethane                      | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Chloroform (Trichloromethane)     | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Chloromethane (Methyl chloride)   | µg/L        | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  | 7.3 U  |
| cis-1,2-Dichloroethene            | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 0.47 J | 1.0 U  | 1.0 U  |
| cis-1,3-Dichloropropene           | µg/L        | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U |
| Cymene (p-Isopropyltoluene)       | µg/L        | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  | 2.7 U  |
| Dibromochloromethane              | µg/L        | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  | 8.7 U  |
| Dibromomethane                    | µg/L        | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  | 3.1 U  |
| Dichlorodifluoromethane (CFC-12)  | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Diisopropyl ether                 | µg/L        | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  | 6.3 U  |
| Ethylbenzene                      | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Hexachlorobutadiene               | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Isopropyl benzene                 | µg/L        | 5.0 U  | 5.0 U  | 0.60 J | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| m&p-Xylenes                       | µg/L        | 2.0 U  | 2.0 U  | 6.8    | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  | 2.0 U  |
| Methyl tert butyl ether (MTBE)    | µg/L        | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  | 4.2 U  |
| Methylene chloride                | µg/L        | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| N-Butylbenzene                    | µg/L        | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  | 2.4 U  |
| N-Propylbenzene                   | µg/L        | 5.0 U  | 5.0 U  | 0.93 J | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| Naphthalene                       | µg/L        | 6.4    | 5.5    | 8.2    | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| o-Xylene                          | µg/L        | 1.0 U  | 1.0 U  | 1.7    | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Styrene                           | µg/L        | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  | 1.6 U  |
| tert-Butylbenzene                 | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Tetrachloroethene                 | µg/L        | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  | 1.1 U  |
| Tetrahydrofuran                   | µg/L        | 5.4 J  | 11.5 J | 208    | 20.0 U | 2.9 J  | 16.3 J | 20.0 U | 10.1 J |
| Toluene                           | µg/L        | 5.0 U  | 5.0 U  | 0.65 J | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  | 5.0 U  |
| trans-1,2-Dichloroethene          | µg/L        | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  | 3.6 U  |
| trans-1,3-Dichloropropene         | µg/L        | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U | 14.6 U |
| Trichloroethene                   | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Trichlorofluoromethane (CFC-11)   | µg/L        | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  | 1.0 U  |
| Vinyl chloride                    | µg/L        | 0.19 J | 0.64 J | 1.0 U  | 1.4    | 0.52 J | 3.7    | 1.0 U  | 0.84 J |

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

|                     |                   |                   |                   |                   |                   |                   |                   |                   |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Location ID:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Name:</b> | <b>MW-20B</b>     | <b>MW-20C</b>     | <b>MW-21A</b>     | <b>MW-25B</b>     | <b>MW-26B</b>     | <b>MW-26C</b>     | <b>MW-27B</b>     | <b>MW-28A</b>     |
| <b>Sample Date:</b> | <b>09/24/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/24/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> | <b>09/25/2019</b> |

| <b>Parameters</b>             | <b>Unit</b> |       |       |       |        |      |      |        |      |
|-------------------------------|-------------|-------|-------|-------|--------|------|------|--------|------|
| <b>Metals</b>                 |             |       |       |       |        |      |      |        |      |
| Hardness, calculation         | mg/L        | 169   | 205   | 805   | 187    | 216  | 256  | 99.6   | 204  |
| Boron (dissolved)             | µg/L        | --    | --    | 1180  | 11.4 J | --   | --   | --     | 154  |
| Iron (dissolved)              | µg/L        | 17900 | 23400 | 53600 | 73.6 J | 1410 | 1440 | 52.5 J | 6730 |
| Manganese (dissolved)         | µg/L        | 1030  | 1390  | 1050  | 41.4   | 633  | 2500 | 170    | 1580 |
| <b>General Chemistry</b>      |             |       |       |       |        |      |      |        |      |
| Alkalinity, total (as CaCO3)  | mg/L        | 140   | 186   | 1710  | 148    | 182  | 216  | 77.1   | 213  |
| Ammonia                       | mg/L        | --    | --    | 224   | --     | --   | --   | --     | --   |
| Chloride                      | mg/L        | 43.9  | 44.9  | 46.3  | 16.8   | 12.2 | 22.5 | 5.5    | 33.3 |
| Total kjeldahl nitrogen (TKN) | mg/L        | --    | --    | 212   | --     | --   | --   | --     | --   |

Note:

- U - Not detected at the associated reporting limit
- J - Estimated concentration
- J- - Estimated concentration, may be biased low
- UJ - Not detected; associated reporting limit is estimated

**Validated Analytical Results Summary - Surface Water  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

| Location ID: | SW-10             | SW-20             | SW-28             |
|--------------|-------------------|-------------------|-------------------|
| Sample Name: | W-190924-RA-SW-10 | W-190924-RA-SW-20 | W-190924-RA-SW-28 |
| Sample Date: | 09/24/2019        | 09/24/2019        | 09/24/2019        |

| Parameters                    | Unit      | SW-10  | SW-20  | SW-28  |
|-------------------------------|-----------|--------|--------|--------|
| <b>Metals</b>                 |           |        |        |        |
| Hardness, calculation         | mg/L      | 66.9   | 101    | 278    |
| Copper                        | µg/L      | 11.2 U | 11.2 U | 4.0 J  |
| Iron                          | µg/L      | 5150   | 5320   | 12900  |
| Lead                          | µg/L      | 19.7 U | 19.7 U | 19.7 U |
| Sodium                        | µg/L      | 21200  | 25300  | 40200  |
| Zinc                          | µg/L      | 40.0 U | 12.4 J | 40.0 U |
| <b>General Chemistry</b>      |           |        |        |        |
| Fecal coliform bacteria       | cfu/100mL | 29.4 J | 29.3 J | 18.0 J |
| Ammonia                       | mg/L      | 0.50 U | 1.2    | 87.7   |
| Chemical oxygen demand (COD)  | mg/L      | 30.4 J | 19.7 J | 90.6   |
| Chloride                      | mg/L      | 42.8   | 59.8   | 33.2   |
| Nitrite/Nitrate               | mg/L      | 0.10 J | 0.23 J | 0.21 J |
| Total kjeldahl nitrogen (TKN) | mg/L      | 0.48 J | 1.6    | 80.2   |

Note:

U - Not detected at the associated reporting limit  
J - Estimated concentration

Table 3

**Analytical Methods**  
**Groundwater and Surface Water Sampling Event**  
**Rhinelanders Landfill Site**  
**Rhinelanders, Wisconsin**  
**September 2019**

| Parameter                        | Method      | Matrix | Holding Time                    |   |
|----------------------------------|-------------|--------|---------------------------------|---|
|                                  |             |        | Collection to Extraction (days) | Collection or Extraction to Analysis (days) |
| Volatile Organic Compounds (VOC) | SW-846 8260 | Water  | -                               | 14  |
| Select Metals                    | SW-846 6010 | Water  | -                               | 180   |
| Select Metals, dissolved         | SW-846 6010 | Water  | -                               | 180   |
| Hardness                         | SM 2340B    | Water  | -                               | 180   |
| Fecal Coliforms                  | SM 9222D    | Water  | -                               | 6 hours                                     |
| Chloride                         | EPA 300.0   | Water  | -                               | 28  |
| Ammonia                          | EPA 350.1   | Water  | -                               | 28  |
| Total Kjeldahl Nitrogen (TKN)    | EPA 351.2   | Water  | -                               | 28  |
| Chemical Oxygen Demand (COD)     | EPA 410.4   | Water  | -                               | 28  |
| Nitrate/Nitrite                  | EPA 353.2   | Water  | -                               | 28  |
| Alkalinity                       | EPA 310.2   | Water  | -                               | 14  |

Notes:

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods For the Examination of Water and Wastewater"
- EPA - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions



Table 4

**Qualified Sample Results Due to Holding Time Exceedance  
Groundwater and Surface Water Sampling Event  
Rhinelanders Landfill Site  
Rhinelanders, Wisconsin  
September 2019**

| <b>Parameter</b>        | <b>Sample ID</b> | <b>Holding Time (hours)</b> | <b>Holding Time Criteria (hours)</b> | <b>Analyte</b>          | <b>Qualified Sample Results</b> | <b>Units</b> |
|-------------------------|------------------|-----------------------------|--------------------------------------|-------------------------|---------------------------------|--------------|
| Fecal coliform bacteria | SW-20            | 24                          | 6                                    | Fecal coliform bacteria | 29.3 J                          | cfu/100mL    |
|                         | SW-28            | 24                          | 6                                    | Fecal coliform bacteria | 18.0 J                          | cfu/100mL    |
|                         | SW-10            | 25                          | 6                                    | Fecal coliform bacteria | 29.4 J                          | cfu/100mL    |

## Notes:

J - Estimated concentration

Table 5

**Qualified Sample Data Due to Air Bubble - VOC Analysis  
Groundwater and Surface Water Sampling Event  
Rhinelanders Landfill Site  
Rhinelanders, Wisconsin  
September 2019**

| Parameter | Sample ID | Air Bubble Size (mm) | Required Size (mm) | Analyte                                | Qualified Result | Units |
|-----------|-----------|----------------------|--------------------|--|------------------|-------|
| VOC       | MW-2A     | >6                   | <6                 | 1,1,1,2-Tetrachloroethane              | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1,1-Trichloroethane                  | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1,2,2-Tetrachloroethane              | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1,2-Trichloroethane                  | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1-Dichloroethane                     | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1-Dichloroethene                     | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,1-Dichloropropene                    | 1.8 UJ           | ug/L  |
|           |           |                      |                    | 1,2,3-Trichlorobenzene                 | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 1,2,3-Trichloropropane                 | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 1,2,4-Trichlorobenzene                 | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 1,2,4-Trimethylbenzene                 | 1.4 J-           | ug/L  |
|           |           |                      |                    | 1,2-Dibromo-3-chloropropane (DBCP)     | 5.9 UJ           | ug/L  |
|           |           |                      |                    | 1,2-Dibromoethane (Ethylene dibromide) | 2.8 UJ           | ug/L  |
|           |           |                      |                    | 1,2-Dichlorobenzene                    | 2.4 UJ           | ug/L  |
|           |           |                      |                    | 1,2-Dichloroethane                     | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,2-Dichloropropane                    | 1.0 UJ           | ug/L  |
|           |           |                      |                    | 1,3,5-Trimethylbenzene                 | 1.0 J-           | ug/L  |
|           |           |                      |                    | 1,3-Dichlorobenzene                    | 2.1 UJ           | ug/L  |
|           |           |                      |                    | 1,3-Dichloropropane                    | 2.8 UJ           | ug/L  |
|           |           |                      |                    | 1,4-Dichlorobenzene                    | 3.1 UJ           | ug/L  |
|           |           |                      |                    | 2,2-Dichloropropane                    | 7.6 UJ           | ug/L  |
|           |           |                      |                    | 2-Chlorotoluene                        | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 2-Phenylbutane (sec-Butylbenzene)      | 5.0 UJ           | ug/L  |
|           |           |                      |                    | 4-Chlorotoluene                        | 2.5 UJ           | ug/L  |
|           |           |                      |                    | Bromobenzene                           | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Bromodichloromethane                   | 1.2 UJ           | ug/L  |
|           |           |                      |                    | Bromoform                              | 13.2 UJ          | ug/L  |
|           |           |                      |                    | Bromomethane (Methyl bromide)          | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Carbon tetrachloride                   | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Chlorobenzene                          | 0.76 J-          | ug/L  |
|           |           |                      |                    | Chlorobromomethane                     | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Chloroethane                           | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Chloroform (Trichloromethane)          | 5.0 UJ           | ug/L  |

Table 5

**Qualified Sample Data Due to Air Bubble - VOC Analysis  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill Site  
Rhineland, Wisconsin  
September 2019**

| Parameter | Sample ID | Air Bubble Size (mm) | Required Size (mm) | Analyte                          | Qualified Result | Units |
|-----------|-----------|----------------------|--------------------|----------------------------------|------------------|-------|
|           |           |                      |                    | Chloromethane (Methyl chloride)  | 7.3 UJ           | ug/L  |
|           |           |                      |                    | cis-1,2-Dichloroethene           | 1.0 UJ           | ug/L  |
|           |           |                      |                    | cis-1,3-Dichloropropene          | 12.1 UJ          | ug/L  |
|           |           |                      |                    | Cymene (p-Isopropyltoluene)      | 2.7 UJ           | ug/L  |
|           |           |                      |                    | Dibromochloromethane             | 8.7 UJ           | ug/L  |
|           |           |                      |                    | Dibromomethane                   | 3.1 UJ           | ug/L  |
|           |           |                      |                    | Dichlorodifluoromethane (CFC-12) | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Diisopropyl ether                | 6.3 UJ           | ug/L  |
|           |           |                      |                    | Ethylbenzene                     | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Hexachlorobutadiene              | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Isopropyl benzene                | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Methyl tert butyl ether (MTBE)   | 4.2 UJ           | ug/L  |
|           |           |                      |                    | Methylene chloride               | 5.0 UJ           | ug/L  |
|           |           |                      |                    | N-Butylbenzene                   | 2.4 UJ           | ug/L  |
|           |           |                      |                    | N-Propylbenzene                  | 5.0 UJ           | ug/L  |
|           |           |                      |                    | Naphthalene                      | 3.9 J-           | ug/L  |
|           |           |                      |                    | o-Xylene                         | 0.51 J-          | ug/L  |
|           |           |                      |                    | Styrene                          | 1.6 UJ           | ug/L  |
|           |           |                      |                    | tert-Butylbenzene                | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Tetrachloroethene                | 1.1 UJ           | ug/L  |
|           |           |                      |                    | Toluene                          | 0.35 J-          | ug/L  |
|           |           |                      |                    | trans-1,2-Dichloroethene         | 3.6 UJ           | ug/L  |
|           |           |                      |                    | trans-1,3-Dichloropropene        | 14.6 UJ          | ug/L  |
|           |           |                      |                    | Trichloroethene                  | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Trichlorofluoromethane (CFC-11)  | 1.0 UJ           | ug/L  |
|           |           |                      |                    | Vinyl chloride                   | 1.0 UJ           | ug/L  |

## Notes:

- VOC - Volatile Organic Compounds  
 J- - Estimated concentration, may be biased low  
 UJ - Not detected; associated reporting limit is estimated

May 14, 2019

Grant Anderson  
GHD Services; St. Paul  
1801 Old Highway 8 Northwest  
Suite 114  
Saint Paul, MN 55112

RE: Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 40186778001 | SW-20     | Water  | 04/30/19 11:40 | 05/01/19 10:05 |
| 40186778002 | SW-28     | Water  | 04/30/19 11:50 | 05/01/19 10:05 |
| 40186778003 | SW-10     | Water  | 04/30/19 12:30 | 05/01/19 10:05 |

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### SAMPLE ANALYTE COUNT

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

| Lab ID      | Sample ID | Method    | Analysts | Analytes Reported |
|-------------|-----------|-----------|----------|-------------------|
| 40186778001 | SW-20     | EPA 6010  | TXW      | 6                 |
|             |           | SM 9222D  | KTS      | 1                 |
|             |           | EPA 180.1 | DEY      | 1                 |
|             |           | EPA 300.0 | HMB      | 1                 |
|             |           | EPA 350.1 | TMK      | 1                 |
|             |           | EPA 351.2 | TMK      | 1                 |
|             |           | EPA 353.2 | DAW      | 1                 |
|             |           | EPA 410.4 | TJJ      | 1                 |
| 40186778002 | SW-28     | EPA 6010  | TXW      | 6                 |
|             |           | SM 9222D  | KTS      | 1                 |
|             |           | EPA 180.1 | DEY      | 1                 |
|             |           | EPA 300.0 | HMB      | 1                 |
|             |           | EPA 350.1 | TMK      | 1                 |
|             |           | EPA 351.2 | TMK      | 1                 |
|             |           | EPA 353.2 | DAW      | 1                 |
|             |           | EPA 410.4 | TJJ      | 1                 |
| 40186778003 | SW-10     | EPA 6010  | TXW      | 6                 |
|             |           | SM 9222D  | KTS      | 1                 |
|             |           | EPA 180.1 | DEY      | 1                 |
|             |           | EPA 300.0 | HMB      | 1                 |
|             |           | EPA 350.1 | TMK      | 1                 |
|             |           | EPA 351.2 | TMK      | 1                 |
|             |           | EPA 353.2 | DAW      | 1                 |
|             |           | EPA 410.4 | TJJ      | 1                 |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

**Sample: SW-20**      **Lab ID: 40186778001**      Collected: 04/30/19 11:40      Received: 05/01/19 10:05      Matrix: Water

| Parameters                           | Results         | Units   | LOQ  | LOD   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------|-----------------|---|------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>                  |                 | Analytical Method: EPA 6010    Preparation Method: EPA 3010   |      |       |    |                |                |            |      |
| Copper                               | <b>&lt;6.3</b>  | ug/L  | 20.0 | 6.3   | 1  | 05/03/19 07:18 | 05/06/19 17:18 | 7440-50-8  |      |
| Iron                                 | <b>2280</b>     | ug/L  | 246  | 73.9  | 1  | 05/03/19 07:18 | 05/06/19 17:18 | 7439-89-6  |      |
| Lead                                 | <b>&lt;5.9</b>  | ug/L  | 19.7 | 5.9   | 1  | 05/03/19 07:18 | 05/06/19 17:18 | 7439-92-1  |      |
| Sodium                               | <b>21100</b>    | ug/L  | 1530 | 458   | 1  | 05/03/19 07:18 | 05/06/19 17:18 | 7440-23-5  |      |
| Total Hardness by 2340B              | <b>45.4</b>     | mg/L  | 2.0  | 0.15  | 1  | 05/03/19 07:18 | 05/06/19 17:18 |            |      |
| Zinc                                 | <b>&lt;11.6</b> | ug/L  | 40.0 | 11.6  | 1  | 05/03/19 07:18 | 05/06/19 17:18 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b>  |                 | Analytical Method: SM 9222D    Preparation Method: SM 9222D   |      |       |    |                |                |            |      |
| Fecal Coliforms                      | <b>2.00</b>     | CFU/100 mL  | 2.0  | 2.0   | 2  | 05/01/19 13:33 | 05/01/19 13:33 |            | H3   |
| <b>180.1 Turbidity</b>               |                 | Analytical Method: EPA 180.1                                  |      |       |    |                |                |            |      |
| Turbidity                            | <b>9.1</b>      | NTU   | 1.8  | 0.55  | 1  |                | 05/01/19 14:43 |            |      |
| <b>300.0 IC Anions 28 Days</b>       |                 | Analytical Method: EPA 300.0                                  |      |       |    |                |                |            |      |
| Chloride                             | <b>44.2</b>     | mg/L  | 10.0 | 2.5   | 5  |                | 05/09/19 17:04 | 16887-00-6 |      |
| <b>350.1 Ammonia</b>                 |                 | Analytical Method: EPA 350.1                                  |      |       |    |                |                |            |      |
| Nitrogen, Ammonia                    | <b>&lt;0.25</b> | mg/L  | 0.50 | 0.25  | 1  |                | 05/09/19 17:33 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> |                 | Analytical Method: EPA 351.2    Preparation Method: EPA 351.2 |      |       |    |                |                |            |      |
| Nitrogen, Kjeldahl, Total            | <b>0.51J</b>    | mg/L  | 0.73 | 0.22  | 1  | 05/08/19 11:10 | 05/08/19 16:31 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |                 | Analytical Method: EPA 353.2                                  |      |       |    |                |                |            |      |
| Nitrogen, NO2 plus NO3               | <b>0.14J</b>    | mg/L  | 0.25 | 0.095 | 1  |                | 05/08/19 13:18 |            |      |
| <b>410.4 COD</b>                     |                 | Analytical Method: EPA 410.4    Preparation Method: EPA 410.4 |      |       |    |                |                |            |      |
| Chemical Oxygen Demand               | <b>25.2J</b>    | mg/L  | 47.2 | 14.2  | 1  | 05/09/19 08:26 | 05/09/19 10:48 |            |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

**Sample: SW-28**      **Lab ID: 40186778002**      Collected: 04/30/19 11:50      Received: 05/01/19 10:05      Matrix: Water

| Parameters   | Results | Units      | LOQ  | LOD   | DF   | Prepared       | Analyzed       | CAS No.    | Qual |
|--|---------|------------|------|-------|------|----------------|----------------|------------|------|
| <b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3010                    |         |            |      |       |      |                |                |            |      |
| Copper   | <6.3    | ug/L       | 20.0 | 6.3   | 1    | 05/03/19 07:18 | 05/06/19 17:20 | 7440-50-8  |      |
| Iron   | 2760    | ug/L       | 246  | 73.9  | 1    | 05/03/19 07:18 | 05/06/19 17:20 | 7439-89-6  |      |
| Lead   | 6.1J    | ug/L       | 19.7 | 5.9   | 1    | 05/03/19 07:18 | 05/06/19 17:20 | 7439-92-1  | B    |
| Sodium   | 20000   | ug/L       | 1530 | 458   | 1    | 05/03/19 07:18 | 05/06/19 17:20 | 7440-23-5  |      |
| Total Hardness by 2340B  | 49.4    | mg/L       | 2.0  | 0.15  | 1    | 05/03/19 07:18 | 05/06/19 17:20 |            |      |
| Zinc   | 13.6J   | ug/L       | 40.0 | 11.6  | 1    | 05/03/19 07:18 | 05/06/19 17:20 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b> Analytical Method: SM 9222D      Preparation Method: SM 9222D    |         |            |      |       |      |                |                |            |      |
| Fecal Coliforms  | 5.71    | CFU/100 mL | 2.9  | 2.9   | 2.86 | 05/01/19 13:33 | 05/01/19 13:33 |            | H3   |
| <b>180.1 Turbidity</b> Analytical Method: EPA 180.1  |         |            |      |       |      |                |                |            |      |
| Turbidity  | 12.0    | NTU        | 1.8  | 0.55  | 1    |                | 05/01/19 14:46 |            |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0  |         |            |      |       |      |                |                |            |      |
| Chloride   | 46.5    | mg/L       | 2.0  | 0.50  | 1    |                | 05/09/19 17:18 | 16887-00-6 |      |
| <b>350.1 Ammonia</b> Analytical Method: EPA 350.1  |         |            |      |       |      |                |                |            |      |
| Nitrogen, Ammonia  | <0.25   | mg/L       | 0.50 | 0.25  | 1    |                | 05/09/19 17:36 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> Analytical Method: EPA 351.2      Preparation Method: EPA 351.2 |         |            |      |       |      |                |                |            |      |
| Nitrogen, Kjeldahl, Total  | 0.63J   | mg/L       | 0.73 | 0.22  | 1    | 05/08/19 11:10 | 05/08/19 16:34 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> Analytical Method: EPA 353.2                                    |         |            |      |       |      |                |                |            |      |
| Nitrogen, NO2 plus NO3   | 0.13J   | mg/L       | 0.25 | 0.095 | 1    |                | 05/08/19 13:19 |            |      |
| <b>410.4 COD</b> Analytical Method: EPA 410.4      Preparation Method: EPA 410.4                     |         |            |      |       |      |                |                |            |      |
| Chemical Oxygen Demand   | 29.7J   | mg/L       | 47.2 | 14.2  | 1    | 05/09/19 08:26 | 05/09/19 10:49 |            |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

**Sample: SW-10**      **Lab ID: 40186778003**      Collected: 04/30/19 12:30      Received: 05/01/19 10:05      Matrix: Water

| Parameters                           | Results         | Units  | LOQ  | LOD   | DF | Prepared       | Analyzed       | CAS No.    | Qual |
|--------------------------------------|-----------------|--|------|-------|----|----------------|----------------|------------|------|
| <b>6010 MET ICP</b>                  |                 | Analytical Method: EPA 6010 Preparation Method: EPA 3010   |      |       |    |                |                |            |      |
| Copper                               | <b>&lt;6.3</b>  | ug/L   | 20.0 | 6.3   | 1  | 05/03/19 07:18 | 05/06/19 17:23 | 7440-50-8  |      |
| Iron                                 | <b>2650</b>     | ug/L   | 246  | 73.9  | 1  | 05/03/19 07:18 | 05/06/19 17:23 | 7439-89-6  |      |
| Lead                                 | <b>7.6J</b>     | ug/L   | 19.7 | 5.9   | 1  | 05/03/19 07:18 | 05/06/19 17:23 | 7439-92-1  | B    |
| Sodium                               | <b>17900</b>    | ug/L   | 1530 | 458   | 1  | 05/03/19 07:18 | 05/06/19 17:23 | 7440-23-5  |      |
| Total Hardness by 2340B              | <b>41.7</b>     | mg/L   | 2.0  | 0.15  | 1  | 05/03/19 07:18 | 05/06/19 17:23 |            |      |
| Zinc                                 | <b>18.0J</b>    | ug/L   | 40.0 | 11.6  | 1  | 05/03/19 07:18 | 05/06/19 17:23 | 7440-66-6  |      |
| <b>9222D MICRO Fecal Coli by MF</b>  |                 | Analytical Method: SM 9222D Preparation Method: SM 9222D   |      |       |    |                |                |            |      |
| Fecal Coliforms                      | <b>28.0</b>     | CFU/100 mL   | 2.0  | 2.0   | 2  | 05/01/19 13:33 | 05/01/19 13:33 |            | H3   |
| <b>180.1 Turbidity</b>               |                 | Analytical Method: EPA 180.1                               |      |       |    |                |                |            |      |
| Turbidity                            | <b>12.3</b>     | NTU  | 1.8  | 0.55  | 1  |                | 05/01/19 14:47 |            |      |
| <b>300.0 IC Anions 28 Days</b>       |                 | Analytical Method: EPA 300.0                               |      |       |    |                |                |            |      |
| Chloride                             | <b>42.4</b>     | mg/L   | 2.0  | 0.50  | 1  |                | 05/09/19 17:33 | 16887-00-6 |      |
| <b>350.1 Ammonia</b>                 |                 | Analytical Method: EPA 350.1                               |      |       |    |                |                |            |      |
| Nitrogen, Ammonia                    | <b>&lt;0.25</b> | mg/L   | 0.50 | 0.25  | 1  |                | 05/09/19 17:37 | 7664-41-7  |      |
| <b>351.2 Total Kjeldahl Nitrogen</b> |                 | Analytical Method: EPA 351.2 Preparation Method: EPA 351.2 |      |       |    |                |                |            |      |
| Nitrogen, Kjeldahl, Total            | <b>0.78</b>     | mg/L   | 0.73 | 0.22  | 1  | 05/08/19 11:10 | 05/08/19 16:34 | 7727-37-9  |      |
| <b>353.2 Nitrogen, NO2/NO3 pres.</b> |                 | Analytical Method: EPA 353.2                               |      |       |    |                |                |            |      |
| Nitrogen, NO2 plus NO3               | <b>0.12J</b>    | mg/L   | 0.25 | 0.095 | 1  |                | 05/08/19 13:21 |            |      |
| <b>410.4 COD</b>                     |                 | Analytical Method: EPA 410.4 Preparation Method: EPA 410.4 |      |       |    |                |                |            |      |
| Chemical Oxygen Demand               | <b>30.4J</b>    | mg/L   | 44.8 | 13.4  | 1  | 05/09/19 08:26 | 05/09/19 10:49 |            |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320083 Analysis Method: SM 9222D  
QC Batch Method: SM 9222D Analysis Description: 9222D MICRO Fecal Coliform by MF  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1859279 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 05/01/19 13:33 |            |

METHOD BLANK: 1860572 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter       | Units      | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|------------|--------------|-----------------|----------------|------------|
| Fecal Coliforms | CFU/100 mL | <1.00        | 1.0             | 05/01/19 13:33 |            |

SAMPLE DUPLICATE: 1859280

| Parameter       | Units      | 40186778001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------|------------|--------------------|------------|-----|---------|------------|
| Fecal Coliforms | CFU/100 mL | 2.00               | <2.86      |     |         |            |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320257 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1860728 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter               | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------------|-------|--------------|-----------------|----------------|------------|
| Copper                  | ug/L  | <6.3         | 20.0            | 05/06/19 16:55 |            |
| Iron                    | ug/L  | <73.9        | 246             | 05/06/19 16:55 |            |
| Lead                    | ug/L  | 8.0J         | 19.7            | 05/06/19 16:55 |            |
| Sodium                  | ug/L  | <458         | 1530            | 05/06/19 16:55 |            |
| Total Hardness by 2340B | mg/L  | 0.38J        | 2.0             | 05/06/19 16:55 |            |
| Zinc                    | ug/L  | <11.6        | 40.0            | 05/06/19 16:55 |            |

LABORATORY CONTROL SAMPLE: 1860729

| Parameter               | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------------|-------|-------------|------------|-----------|--------------|------------|
| Copper                  | ug/L  | 500         | 495        | 99        | 80-120       |            |
| Iron                    | ug/L  | 5000        | 5120       | 102       | 80-120       |            |
| Lead                    | ug/L  | 500         | 459        | 92        | 80-120       |            |
| Sodium                  | ug/L  | 5000        | 5120       | 102       | 80-120       |            |
| Total Hardness by 2340B | mg/L  |             | 33.6       |           |              |            |
| Zinc                    | ug/L  | 500         | 479        | 96        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860730 1860731

| Parameter               | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                         |       | 40186783001 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| Copper                  | ug/L  | 67.6               | 500         | 500         | 576   | 571       | 102        | 101      | 75-125    | 1            | 20  |         |      |
| Iron                    | ug/L  | 0.62 mg/L          | 5000        | 5000        | 5730  | 5740      | 102        | 102      | 75-125    | 0            | 20  |         |      |
| Lead                    | ug/L  | 6.8J               | 500         | 500         | 467   | 474       | 92         | 94       | 75-125    | 2            | 20  |         |      |
| Sodium                  | ug/L  | 14.6 mg/L          | 5000        | 5000        | 20400 | 20200     | 116        | 111      | 75-125    | 1            | 20  |         |      |
| Total Hardness by 2340B | mg/L  | 167                |             |             | 210   | 207       |            |          |           | 2            | 20  |         |      |
| Zinc                    | ug/L  | <11.6              | 500         | 500         | 491   | 494       | 97         | 98       | 75-125    | 1            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

QC Batch: 320055 Analysis Method: EPA 180.1  
 QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity  
 Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1859416 Matrix: Water  
 Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Turbidity | NTU   | <0.55        | 1.8             | 05/01/19 14:40 |            |

LABORATORY CONTROL SAMPLE: 1859417

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Turbidity | NTU   | 524         | 525        | 100       | 80-120       |            |

SAMPLE DUPLICATE: 1859418

| Parameter | Units | 40186778001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|---------|------------|
| Turbidity | NTU   | 9.1                | 8.4        | 9   | 10      |            |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320208 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1860332 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | <0.50        | 2.0             | 05/09/19 14:08 |            |

LABORATORY CONTROL SAMPLE: 1860333

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 20          | 21.6       | 108       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860334 1860335

| Parameter | Units | 1860334            |                | 1860335         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
|           |       | 40186739001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |       |
| Chloride  | mg/L  | 10300              | 10000          | 10000           | 20800     | 22000    | 105       | 117          | 90-110 | 5       | 15 M0 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860336 1860337

| Parameter | Units | 1860336            |                | 1860337         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|           |       | 40186800002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Chloride  | mg/L  | 25.8               | 20             | 20              | 47.0      | 47.0     | 106       | 106          | 90-110 | 0       | 15   |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320872 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1863724 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.25        | 0.50            | 05/09/19 17:31 |            |

LABORATORY CONTROL SAMPLE: 1863725

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 10          | 10.0       | 100       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863726 1863727

| Parameter         | Units | 40186778001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Nitrogen, Ammonia | mg/L  | <0.25              | 10             | 10              | 9.4       | 9.2        | 93       | 91        | 90-110       | 2   | 20      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863728 1863729

| Parameter         | Units | 40187208001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Nitrogen, Ammonia | mg/L  | 1.0                | 10             | 10              | 10.4      | 10.5       | 94       | 95        | 90-110       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320730 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1862845 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | <0.22        | 0.73            | 05/08/19 16:20 |            |

LABORATORY CONTROL SAMPLE: 1862846

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | 5           | 4.7        | 94        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862847 1862848

| Parameter                 | Units | MS     |       | MSD         |             | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual  |
|---------------------------|-------|--------|-------|-------------|-------------|----------|-----------|--------------|--------|---------|-------|
|                           |       | Result | Conc. | Spike Conc. | Spike Conc. |          |           |              |        |         |       |
| Nitrogen, Kjeldahl, Total | mg/L  | 200    | 50    | 50          | 236         | 236      | 72        | 72           | 90-110 | 0       | 20 P6 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862849 1862850

| Parameter                 | Units | MS     |       | MSD         |             | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|---------------------------|-------|--------|-------|-------------|-------------|----------|-----------|--------------|--------|---------|------|
|                           |       | Result | Conc. | Spike Conc. | Spike Conc. |          |           |              |        |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 0.51J  | 5     | 5           | 5.1         | 5.2      | 93        | 93           | 90-110 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320716 Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1862738 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, NO2 plus NO3 | mg/L  | <0.095       | 0.25            | 05/08/19 13:13 |            |

LABORATORY CONTROL SAMPLE: 1862739

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, NO2 plus NO3 | mg/L  | 2.5         | 2.3        | 94        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862740 1862741

| Parameter              | Units | 40187060001 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                        |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, NO2 plus NO3 | mg/L  | 4.1         | 2.5            | 2.5             | 6.7       | 6.7        | 101      | 104       | 90-110 | 1            | 20  |         |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862742 1862743

| Parameter              | Units | 40186864014 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                        |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, NO2 plus NO3 | mg/L  | 0.14J       | 2.5            | 2.5             | 2.5       | 2.5        | 96       | 96        | 90-110 | 0            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

QC Batch: 320813 Analysis Method: EPA 410.4  
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

METHOD BLANK: 1863497 Matrix: Water  
Associated Lab Samples: 40186778001, 40186778002, 40186778003

| Parameter              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| Chemical Oxygen Demand | mg/L  | <13.4        | 44.8            | 05/09/19 10:47 |            |

LABORATORY CONTROL SAMPLE: 1863498

| Parameter              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Chemical Oxygen Demand | mg/L  | 500         | 501        | 100       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863499 1863500

| Parameter              | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |  |
|------------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--|
|                        |       | 40186778001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |  |
| Chemical Oxygen Demand | mg/L  | 25.2J              | 526         | 526         | 528    | 537      | 95        | 97           | 90-110 | 2       | 10   |  |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863501 1863502

| Parameter              | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |  |
|------------------------|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--|
|                        |       | 40186778002 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      |  |
| Chemical Oxygen Demand | mg/L  | 29.7J              | 526         | 526         | 537    | 530      | 96        | 95           | 90-110 | 1       | 10   |  |

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## QUALIFIERS

Project: 11115796-40 RHINELANDER LF  
Pace Project No.: 40186778

---

### DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-40 RHINELANDER LF

Pace Project No.: 40186778

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40186778001 | SW-20     | EPA 3010        | 320257   | EPA 6010          | 320366           |
| 40186778002 | SW-28     | EPA 3010        | 320257   | EPA 6010          | 320366           |
| 40186778003 | SW-10     | EPA 3010        | 320257   | EPA 6010          | 320366           |
| 40186778001 | SW-20     | SM 9222D        | 320026   | SM 9222D          | 320083           |
| 40186778002 | SW-28     | SM 9222D        | 320026   | SM 9222D          | 320083           |
| 40186778003 | SW-10     | SM 9222D        | 320026   | SM 9222D          | 320083           |
| 40186778001 | SW-20     | EPA 180.1       | 320055   |                   |                  |
| 40186778002 | SW-28     | EPA 180.1       | 320055   |                   |                  |
| 40186778003 | SW-10     | EPA 180.1       | 320055   |                   |                  |
| 40186778001 | SW-20     | EPA 300.0       | 320208   |                   |                  |
| 40186778002 | SW-28     | EPA 300.0       | 320208   |                   |                  |
| 40186778003 | SW-10     | EPA 300.0       | 320208   |                   |                  |
| 40186778001 | SW-20     | EPA 350.1       | 320872   |                   |                  |
| 40186778002 | SW-28     | EPA 350.1       | 320872   |                   |                  |
| 40186778003 | SW-10     | EPA 350.1       | 320872   |                   |                  |
| 40186778001 | SW-20     | EPA 351.2       | 320730   | EPA 351.2         | 320791           |
| 40186778002 | SW-28     | EPA 351.2       | 320730   | EPA 351.2         | 320791           |
| 40186778003 | SW-10     | EPA 351.2       | 320730   | EPA 351.2         | 320791           |
| 40186778001 | SW-20     | EPA 353.2       | 320716   |                   |                  |
| 40186778002 | SW-28     | EPA 353.2       | 320716   |                   |                  |
| 40186778003 | SW-10     | EPA 353.2       | 320716   |                   |                  |
| 40186778001 | SW-20     | EPA 410.4       | 320813   | EPA 410.4         | 320863           |
| 40186778002 | SW-28     | EPA 410.4       | 320813   | EPA 410.4         | 320863           |
| 40186778003 | SW-10     | EPA 410.4       | 320813   | EPA 410.4         | 320863           |

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436



40186778

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: **GHD**  
 Branch/Location: **St. Paul**  
 Project Contact: **Grant Anderson**  
 Phone: **651-639-0913**  
 Project Number: **1115296-40**  
 Project Name: **Rhineland LF**  
 Project State: **WI**  
 Sampled By (Print): **Ryan Amat**  
 Sampled By (Sign): *[Signature]*  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION |      | MATRIX | Y/N | Pick Letter | Analyses Requested   |
|------------|-----------------|------------|------|--------|-----|-------------|--|
|            |                 | DATE       | TIME |        |     |             |  |
| 001        | W-190430-PA-100 | 4/30/19    | 1140 | SW     | N   |             | Fecal Coliform<br>N+M, COB,<br>Ammonia, TKN<br>Chloride; Turbidity<br>Metals; Hardness |
| 002        | W-190430-PA-101 | ↓          | 1150 | ↓      | N   |             |  |
| 003        | W-190430-PA-102 | ↓          | 1230 | ↓      | N   |             |  |

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_

| CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|-----------------|-----------------------------|-----------|
|                 |                             | fg        |

|   |   |  |
|---|---|--|
| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)<br>Date Needed: _____ | Relinquished By: <i>[Signature]</i><br>Date/Time: <b>4/30/19 1700</b> | Received By: _____<br>Date/Time: _____                           |
| Transmit Prelim Rush Results by (complete what you want): _____   | Relinquished By: <b>FedEx</b><br>Date/Time: <b>5/1/19 1005</b>        | Received By: <i>[Signature]</i><br>Date/Time: <b>5-1-19 1005</b> |
| Email #1: _____   | Relinquished By: _____<br>Date/Time: _____                            | Received By: _____<br>Date/Time: _____                           |
| Email #2: _____   | Relinquished By: _____<br>Date/Time: _____                            | Received By: _____<br>Date/Time: _____                           |
| Telephone: _____  | Relinquished By: _____<br>Date/Time: _____                            | Received By: _____<br>Date/Time: _____                           |
| Fax: _____  | Relinquished By: _____<br>Date/Time: _____                            | Received By: _____<br>Date/Time: _____                           |

PACE Project No. **40186778**  
 Receipt Temp = **ROD** °C  
 Sample Receipt pH **OK / Adjusted**  
 Cooler Custody Seal **Present / Not Present**  
 Intact / Not Intact

2018678

**Joshua Kryger - Past hold fecal coli arriving today**

---

**From:** Dan Milewsky  
**To:** WI Sample Receiving  
**Date:** 5/1/2019 8:54 AM  
**Subject:** Past hold fecal coli arriving today  
**Cc:** WI Wetchem

---

GHD (Rhinelanders LF)  
3 fecal coli's arriving today, collected yesterday, OK to analyze past hold

**Dan Milewsky**  
Project Manager  
Pace Analytical Services  
1241 Bellevue Street  
Green Bay, WI 54302  
[920.412-8566](tel:920.412-8566) (Direct/Cell) | [920.469.2436](tel:920.469.2436) (Green Bay Lab) |  
[www.pacelabs.com](http://www.pacelabs.com)



### Sample Preservation Receipt Form

Client Name: GHD

Project # 40186778

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper: 10552281

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: JK

Date/Time:

Page 20 of 21

| Pace Lab # | Glass |      |      |      |      |      | Plastic |      |      |      |      |      | Vials |      |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |      |      |    |  |  |   |  |  |              |
|------------|-------|------|------|------|------|------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|---------|------|------|--------------------|-------------|-------------------|-------------|------------|-------------------|-------------|------|------|----|--|--|---|--|--|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U    | BP1U | BP2N | BP2Z | BP3U | BP3C | BP3N  | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU    | WGFU | WPFU |                    |             |                   |             |            |                   |             | SP5T | ZPLC | GN |  |  |   |  |  |              |
| 001        |       |      |      |      |      |      |         | -    |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      | X    |    |  |  | X |  |  | 2.5 / 5 / 10 |
| 002        |       |      |      |      |      |      |         | -    |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      | X    |    |  |  | X |  |  | 2.5 / 5 / 10 |
| 003        |       |      |      |      |      |      |         | -    |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      | X    |    |  |  | X |  |  | 2.5 / 5 / 10 |
| 004        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 005        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 006        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 007        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 008        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 009        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 010        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 011        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 012        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 013        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 014        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 015        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 016        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 017        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 018        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 019        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |
| 020        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      |      |      |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |    |  |  |   |  |  | 2.5 / 5 / 10 |

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_ Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

|                                       |  |                                     |   |
|---------------------------------------|--|-------------------------------------|---|
| <b>AG1U</b> 1 liter amber glass       | <b>BP1U</b> 1 liter plastic unpres     | <b>DG9A</b> 40 mL amber ascorbic    | <b>JGFU</b> 4 oz amber jar unpres         |
| <b>AG1H</b> 1 liter amber glass HCL   | <b>BP2N</b> 500 mL plastic HNO3        | <b>DG9T</b> 40 mL amber Na Thio     | <b>WGFU</b> 4 oz clear jar unpres         |
| <b>AG4S</b> 125 mL amber glass H2SO4  | <b>BP2Z</b> 500 mL plastic NaOH, Znact | <b>VG9U</b> 40 mL clear vial unpres | <b>WPFU</b> 4 oz plastic jar unpres       |
| <b>AG4U</b> 120 mL amber glass unpres | <b>BP3U</b> 250 mL plastic unpres      | <b>VG9H</b> 40 mL clear vial HCL    |   |
| <b>AG5U</b> 100 mL amber glass unpres | <b>BP3C</b> 250 mL plastic NaOH        | <b>VG9M</b> 40 mL clear vial MeOH   | <b>SP5T</b> 120 mL plastic Na Thiosulfate |
| <b>AG2S</b> 500 mL amber glass H2SO4  | <b>BP3N</b> 250 mL plastic HNO3        | <b>VG9D</b> 40 mL clear vial DI     | <b>ZPLC</b> ziploc bag                    |
| <b>BG3U</b> 250 mL clear glass unpres | <b>BP3S</b> 250 mL plastic H2SO4       |                                     | <b>GN:</b>                                |



1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.: F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Client Name:

GHD

Project #:

**WO#: 40186778**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 8126 1666 0128

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR - NA Type of Ice: Wet Blue Dry None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: \_\_\_\_\_ /Corr: KUJ

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no

Person examining contents:

Date: 5-1-14

Initials: JV

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C.

|  |  |   |
|--|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1. <u>9-1-14 PM</u>   |
| Chain of Custody Filled Out:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 2. <u>NO #, PPE/cleaning, mail, advice 5-1-14 JK</u>        |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 5. <u>Fecals ok to run PDA hold, per PM email 5-1-14 JK</u> |
| - VOA Samples frozen upon receipt  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Date/Time:  |
| Short Hold Time Analysis (<72hr):  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 6.  |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 7.  |
| Sufficient Volume:   |  | 8.  |
| For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |   |
| Correct Containers Used:   | <input type="checkbox"/> Yes <input type="checkbox"/> No   | 9.  |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |   |
| -Pace IR Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.   |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.   |
| Sample Labels match COC:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>NO #, labels have water damage 5-1-14 JK</u>         |
| -Includes date/time/ID/Analysis Matrix: <u>W</u>   |  |   |
| Trip Blank Present:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.   |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Pace Trip Blank Lot # (if purchased):  |  |   |

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

RAP FOR PDA

Date: 05/01/14





# Memorandum

June 11, 2019

To: Ryan Aamot, GHD

Ref. No.: 11115796-20

From:  Grant Anderson/sb/2

Tel: (651) 639-0913

**Subject: Analytical Results and Reduced Data Validation  
Groundwater and Surface Water Sampling Event  
Rhinelanders Landfill Site – Rhinelanders, Wisconsin  
April 2019**

## 1. Introduction

The following document details a reduced validation of analytical results for groundwater and surface water samples collected in support of the monitoring event at the Rhinelanders Landfill Site in Rhinelanders, Wisconsin during April 2019. Samples were submitted to Pace Analytical Services, Inc. (Pace), located in Green Bay, Wisconsin. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Tables 2A and 2B. A summary of the analytical methodology is presented in Table 3.

Standard GHD Services, Inc. (GHD) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike samples (MS), and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "National Functional Guidelines for Organic Superfund Methods Data Review," EPA-540-R-2017-002, January 2017
- ii) "National Functional Guidelines for Inorganic Superfund Methods Data Review," EPA-540-R-2017-001, January 2017

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

## 2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. The sample chain of custody documents and analytical reports were used to determine sample holding times. With the exception of fecal coliform bacteria analyses, all samples were analyzed within the required holding times. Table 4 lists the holding time exceedances. Associated sample data are qualified as noted in the table.



All samples were properly preserved and delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

### 3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

Laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

Hardness and lead were detected in the method blanks. However, in the case of hardness, the associated sample results were sufficiently high enough that qualification of data was not necessary. Table 4 lists the method blank detection for lead. Associated sample data are qualified as noted in the table.

### 4. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for volatile organic compound (VOC) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory control limits.

### 5. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

#### *Organic Analyses*

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

#### *Inorganic Analyses*

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.



## 6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision.

The laboratory performed site-specific MS/MSD analyses internally.

### *Organic Analyses*

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the acceptance criteria, demonstrating acceptable analytical accuracy and precision.

### *Inorganic Analyses*

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within acceptance criteria, demonstrating acceptable analytical accuracy and precision.

## 7. Field QA/QC Samples

The field QA/QC samples consisted of one trip blank sample, one field blank sample and one field duplicate sample set.

### *Trip Blank Sample Analysis*

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank sample was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

### *Field Blank Sample Analysis*

To assess ambient conditions at the site and cleanliness of sample containers, a field blank was submitted for analysis, as identified in Table 1. With the exception of hardness, all results were non-detect for the analytes of interest. Associated hardness results were sufficiently high enough that qualification of data was not necessary based on analytes detected in the field blank.

### *Field Duplicate Sample Analysis*

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is one times the RL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision



## 8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

## 9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

**Sample Collection and Analysis Summary**  
**Groundwater and Surface Water Sampling Event**  
**Rhineland Landfill**  
**Rhineland, Wisconsin**  
**April 2019**

| Sample Identification | Location | Matrix | Collection Date<br>(mm/dd/yyyy) | Collection Time<br>(hr:min) | Analysis/Parameters |                       |                           |          |                 |           |          |            |         |                         |                        | Comments |                 |
|-----------------------|----------|--------|---------------------------------|-----------------------------|---------------------|-----------------------|---------------------------|----------|-----------------|-----------|----------|------------|---------|-------------------------|------------------------|----------|-----------------|
|                       |          |        |                                 |                             | VOC                 | Select Metals (total) | Select Metals (dissolved) | Hardness | Fecal Coliforms | Turbidity | Chloride | Alkalinity | Ammonia | Total Kjeldahl Nitrogen | Chemical Oxygen Demand |          | Nitrate/Nitrite |
| SW-20                 | SW-20    | water  | 04/30/2019                      | 11:40                       |                     | x                     |                           | x        | x               | x         | x        |            | x       | x                       | x                      | x        |                 |
| SW-28                 | SW-28    | water  | 04/30/2019                      | 11:50                       |                     | x                     |                           | x        | x               | x         | x        |            | x       | x                       | x                      | x        |                 |
| SW-10                 | SW-10    | water  | 04/30/2019                      | 12:30                       |                     | x                     |                           | x        | x               | x         |          |            | x       | x                       | x                      | x        |                 |
| MW-16C                | MW-16C   | water  | 04/29/2019                      | 14:20                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| MW-16A                | MW-16A   | water  | 04/29/2019                      | 14:40                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| MW-16B                | MW-16B   | water  | 04/29/2019                      | 15:03                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| MW-16B DUP            | MW-16B   | water  | 04/29/2019                      | 15:03                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          | Duplicate       |
| MW-20C                | MW-20C   | water  | 04/30/2019                      | 08:08                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| MW-20B                | MW-20B   | water  | 04/30/2019                      | 08:20                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| MW-20A                | MW-20A   | water  | 04/30/2019                      | 08:48                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| FIELD BLANK           | MW-20A   | water  | 04/30/2019                      | 09:00                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          | Field Blank     |
| MW-2A                 | MW-2A    | water  | 04/30/2019                      | 09:41                       | x                   |                       | x                         | x        |                 |           | x        | x          | x       | x                       |                        |          |                 |
| MW-2B                 | MW-2B    | water  | 04/30/2019                      | 09:59                       | x                   |                       | x                         | x        |                 |           | x        | x          |         |                         |                        |          |                 |
| TRIP BLANK            | Lab      | water  | 04/30/2019                      | 00:00                       | x                   |                       |                           |          |                 |           |          |            |         |                         |                        |          | Trip Blank      |

Notes:

VOC - Volatile Organic Compounds

Table 2A

**Validated Analytical Results Summary - Groundwater  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill  
Rhineland, Wisconsin  
April 2019**

| Location ID:                           | MW-16A     | MW-16B     | MW-16B                  | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |
|--|------------|------------|-------------------------|------------|------------|------------|------------|------------|------------|
| Sample Name:                           | MW-16A     | MW-16B     | MW-16B DUP              | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |
| Sample Date:                           | 04/29/2019 | 04/29/2019 | 04/29/2019<br>Duplicate | 04/29/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 |
| Parameters                             | Unit       |            |                         |            |            |            |            |            |            |
| <b>Volatile Organic Compounds</b>      |            |            |                         |            |            |            |            |            |            |
| 1,1,1,2-Tetrachloroethane              | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,1,1-Trichloroethane                  | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,1,2,2-Tetrachloroethane              | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,1,2-Trichloroethane                  | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 1,1-Dichloroethane                     | µg/L       | 1.0 U      | 1.0 U                   | 0.28 J     | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,1-Dichloroethene                     | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,1-Dichloropropene                    | µg/L       | 1.8 U      | 1.8 U                   | 1.8 U      | 1.8 U      | 1.8 U      | 1.8 U      | 1.8 U      | 1.8 U      |
| 1,2,3-Trichlorobenzene                 | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 1,2,3-Trichloropropane                 | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 1,2,4-Trichlorobenzene                 | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 1,2,4-Trimethylbenzene                 | µg/L       | 2.8 U      | 2.8 U                   | 2.8 U      | 2.8 U      | 16.7       | 2.8 U      | 2.8 U      | 2.8 U      |
| 1,2-Dibromo-3-chloropropane (DBCP)     | µg/L       | 5.9 U      | 5.9 U                   | 5.9 U      | 5.9 U      | 5.9 U      | 5.9 U      | 5.9 U      | 5.9 U      |
| 1,2-Dibromoethane (Ethylene dibromide) | µg/L       | 2.8 U      | 2.8 U                   | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      |
| 1,2-Dichlorobenzene                    | µg/L       | 2.4 U      | 2.4 U                   | 2.4 U      | 2.4 U      | 2.4 U      | 2.4 U      | 2.4 U      | 2.4 U      |
| 1,2-Dichloroethane                     | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,2-Dichloropropane                    | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| 1,3,5-Trimethylbenzene                 | µg/L       | 2.9 U      | 2.9 U                   | 2.9 U      | 2.9 U      | 3.1        | 2.9 U      | 2.9 U      | 2.9 U      |
| 1,3-Dichlorobenzene                    | µg/L       | 2.1 U      | 2.1 U                   | 2.1 U      | 2.1 U      | 2.1 U      | 2.1 U      | 2.1 U      | 2.1 U      |
| 1,3-Dichloropropane                    | µg/L       | 2.8 U      | 2.8 U                   | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      | 2.8 U      |
| 1,4-Dichlorobenzene                    | µg/L       | 3.1 U      | 3.1 U                   | 3.1 U      | 3.1 U      | 1.6 J      | 3.1 U      | 3.1 U      | 3.1 U      |
| 2,2-Dichloropropane                    | µg/L       | 7.6 U      | 7.6 U                   | 7.6 U      | 7.6 U      | 7.6 U      | 7.6 U      | 7.6 U      | 7.6 U      |
| 2-Chlorotoluene                        | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 2-Phenylbutane (sec-Butylbenzene)      | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| 4-Chlorotoluene                        | µg/L       | 2.5 U      | 2.5 U                   | 2.5 U      | 2.5 U      | 2.5 U      | 2.5 U      | 2.5 U      | 2.5 U      |
| Benzene                                | µg/L       | 0.76 J     | 1.0 J                   | 1.0        | 1.2        | 1.2        | 0.70 J     | 0.94 J     | 13.8       |
| Bromobenzene                           | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| Bromodichloromethane                   | µg/L       | 1.2 U      | 1.2 U                   | 1.2 U      | 1.2 U      | 1.2 U      | 1.2 U      | 1.2 U      | 1.2 U      |
| Bromoform                              | µg/L       | 13.2 U     | 13.2 U                  | 13.2 U     | 13.2 U     | 13.2 U     | 13.2 U     | 13.2 U     | 13.2 U     |
| Bromomethane (Methyl bromide)          | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| Carbon tetrachloride                   | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      |
| Chlorobenzene                          | µg/L       | 2.4 U      | 2.4 U                   | 2.4 U      | 2.4 U      | 4.3        | 0.90 J     | 0.72 J     | 2.4 U      |
| Chlorobromomethane                     | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| Chloroethane                           | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |
| Chloroform (Trichloromethane)          | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      |

Table 2A

Validated Analytical Results Summary - Groundwater  
 Groundwater and Surface Water Sampling Event  
 Rhinelander Landfill  
 Rhinelander, Wisconsin  
 April 2019

| Location ID:                     | MW-16A     | MW-16B     | MW-16B                  | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |        |
|----------------------------------|------------|------------|-------------------------|------------|------------|------------|------------|------------|------------|--------|
| Sample Name:                     | MW-16A     | MW-16B     | MW-16B DUP              | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |        |
| Sample Date:                     | 04/29/2019 | 04/29/2019 | 04/29/2019<br>Duplicate | 04/29/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 |        |
| Parameters                       | Unit       |            |                         |            |            |            |            |            |            |        |
| Chloromethane (Methyl chloride)  | µg/L       | 7.3 U      | 7.3 U                   | 7.3 U      | 7.3 U      | 7.3 U      | 7.3 U      | 7.3 U      | 7.3 U      | 7.3 U  |
| cis-1,2-Dichloroethene           | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| cis-1,3-Dichloropropene          | µg/L       | 12.1 U     | 12.1 U                  | 12.1 U     | 12.1 U     | 12.1 U     | 12.1 U     | 12.1 U     | 12.1 U     | 12.1 U |
| Cymene (p-Isopropyltoluene)      | µg/L       | 2.7 U      | 2.7 U                   | 2.7 U      | 2.7 U      | 2.7 U      | 2.7 U      | 2.7 U      | 2.7 U      | 2.7 U  |
| Dibromochloromethane             | µg/L       | 8.7 U      | 8.7 U                   | 8.7 U      | 8.7 U      | 8.7 U      | 8.7 U      | 8.7 U      | 8.7 U      | 8.7 U  |
| Dibromomethane                   | µg/L       | 3.1 U      | 3.1 U                   | 3.1 U      | 3.1 U      | 3.1 U      | 3.1 U      | 3.1 U      | 3.1 U      | 3.1 U  |
| Dichlorodifluoromethane (CFC-12) | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U  |
| Diisopropyl ether                | µg/L       | 6.3 U      | 6.3 U                   | 6.3 U      | 6.3 U      | 6.3 U      | 6.3 U      | 6.3 U      | 6.3 U      | 6.3 U  |
| Ethylbenzene                     | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| Hexachlorobutadiene              | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U  |
| Isopropyl benzene                | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 3.2 J      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U  |
| m&p-Xylenes                      | µg/L       | 2.0 U      | 2.0 U                   | 2.0 U      | 0.89 J     | 39.4       | 2.0 U      | 2.0 U      | 1.5 J      | 2.0 U  |
| Methyl tert butyl ether (MTBE)   | µg/L       | 4.2 U      | 4.2 U                   | 4.2 U      | 4.2 U      | 4.2 U      | 4.2 U      | 4.2 U      | 4.2 U      | 4.2 U  |
| Methylene chloride               | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U  |
| N-Butylbenzene                   | µg/L       | 2.4 U      | 2.4 U                   | 2.4 U      | 2.4 U      | 1.0 J      | 2.4 U      | 2.4 U      | 2.4 U      | 2.4 U  |
| N-Propylbenzene                  | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 2.2 J      | 5.0 U      | 5.0 U      | 5.0 U      | 5.0 U  |
| Naphthalene                      | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 1.8 J      | 10.7       | 6.7        | 5.1        | 5.0 U      | 5.0 U  |
| o-Xylene                         | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0        | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| Styrene                          | µg/L       | 1.6 U      | 1.6 U                   | 1.6 U      | 1.6 U      | 1.6 U      | 1.6 U      | 1.6 U      | 1.6 U      | 1.6 U  |
| tert-Butylbenzene                | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| Tetrachloroethene                | µg/L       | 1.1 U      | 1.1 U                   | 1.1 U      | 1.1 U      | 1.1 U      | 1.1 U      | 1.1 U      | 1.1 U      | 1.1 U  |
| Tetrahydrofuran                  | µg/L       | 20.0 U     | 20.0 U                  | 20.0 U     | 9.0 J      | 6.8 J      | 8.0 J      | 12.3 J     | 85.9       | 16.0 J |
| Toluene                          | µg/L       | 5.0 U      | 5.0 U                   | 5.0 U      | 5.0 U      | 0.18 J     | 5.0 U      | 5.0 U      | 0.19 J     | 5.0 U  |
| trans-1,2-Dichloroethene         | µg/L       | 3.6 U      | 3.6 U                   | 3.6 U      | 3.6 U      | 3.6 U      | 3.6 U      | 3.6 U      | 3.6 U      | 3.6 U  |
| trans-1,3-Dichloropropene        | µg/L       | 14.6 U     | 14.6 U                  | 14.6 U     | 14.6 U     | 14.6 U     | 14.6 U     | 14.6 U     | 14.6 U     | 14.6 U |
| Trichloroethene                  | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| Trichlorofluoromethane (CFC-11)  | µg/L       | 1.0 U      | 1.0 U                   | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U      | 1.0 U  |
| Vinyl chloride                   | µg/L       | 1.0 U      | 0.24 J                  | 0.22 J     | 0.26 J     | 1.0 U      | 0.25 J     | 0.80 J     | 1.0 U      | 0.42 J |
| <b>Metals</b>                    |            |            |                         |            |            |            |            |            |            |        |
| Hardness, calculation            | mg/L       | 201        | 221                     | 220        | 232        | 175        | 158        | 188        | 499        | 182    |
| Boron (dissolved)                | µg/L       | --         | --                      | --         | --         | 505        | --         | --         | 677        | --     |
| Iron (dissolved)                 | µg/L       | 3690       | 34400                   | 34100      | 27200      | 75300      | 16800      | 22200      | 58300      | 22200  |
| Manganese (dissolved)            | µg/L       | 4100       | 3690                    | 3700       | 2180       | 848        | 1040       | 1460       | 760        | 1220   |

Table 2A

Validated Analytical Results Summary - Groundwater  
 Groundwater and Surface Water Sampling Event  
 Rhinelander Landfill  
 Rhinelander, Wisconsin  
 April 2019

| Location ID:                  | MW-16A     | MW-16B     | MW-16B                  | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |      |
|-------------------------------|------------|------------|-------------------------|------------|------------|------------|------------|------------|------------|------|
| Sample Name:                  | MW-16A     | MW-16B     | MW-16B DUP              | MW-16C     | MW-20A     | MW-20B     | MW-20C     | MW-2A      | MW-2B      |      |
| Sample Date:                  | 04/29/2019 | 04/29/2019 | 04/29/2019<br>Duplicate | 04/29/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 | 04/30/2019 |      |
| Parameters                    | Unit       |            |                         |            |            |            |            |            |            |      |
| <b>General Chemistry</b>      |            |            |                         |            |            |            |            |            |            |      |
| Alkalinity, total (as CaCO3)  | mg/L       | 211        | 224                     | 232        | 232        | 255        | 142        | 176        | 734        | 214  |
| Ammonia                       | mg/L       | --         | --                      | --         | --         | --         | --         | --         | 96.9       | --   |
| Chloride                      | mg/L       | 25.8       | 36.4                    | 36.7       | 43.9       | 10.8       | 49.5       | 49.1       | 44.1       | 28.3 |
| Total Kjeldahl Nitrogen (TKN) | mg/L       | --         | --                      | --         | --         | --         | --         | --         | 96.0       | --   |

Note:

- U - Not detected at the associated reporting limit
- J - Estimated concentration



Table 2B

**Validated Analytical Results Summary - Surface Water  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill  
Rhineland, Wisconsin  
April 2019**

|                     |                   |                   |                   |
|---------------------|-------------------|-------------------|-------------------|
| <b>Location ID:</b> | <b>SW-10</b>      | <b>SW-20</b>      | <b>SW-28</b>      |
| <b>Sample Name:</b> | <b>SW-10</b>      | <b>SW-20</b>      | <b>SW-28</b>      |
| <b>Sample Date:</b> | <b>04/30/2019</b> | <b>04/30/2019</b> | <b>04/30/2019</b> |

| <b>Parameters</b>             | <b>Unit</b> |        |        |        |
|-------------------------------|-------------|--------|--------|--------|
| <b>Metals</b>                 |             |        |        |        |
| Hardness, calculation         | mg/L        | 41.7   | 45.4   | 49.4   |
| Copper                        | µg/L        | 20.0 U | 20.0 U | 20.0 U |
| Iron                          | µg/L        | 2650   | 2280   | 2760   |
| Lead                          | µg/L        | 19.7 U | 19.7 U | 19.7 U |
| Sodium                        | µg/L        | 17900  | 21100  | 20000  |
| Zinc                          | µg/L        | 18.0 J | 40.0 U | 13.6 J |
| <b>General Chemistry</b>      |             |        |        |        |
| Fecal coliform bacteria       | cfu/100mL   | 28.0 J | 2.00 J | 5.71 J |
| Ammonia                       | mg/L        | 0.50 U | 0.50 U | 0.50 U |
| Chemical oxygen demand (COD)  | mg/L        | 30.4 J | 25.2 J | 29.7 J |
| Chloride                      | mg/L        | 42.4   | 44.2   | 46.5   |
| Nitrite/Nitrate               | mg/L        | 0.12 J | 0.14 J | 0.13 J |
| Total Kjeldahl Nitrogen (TKN) | mg/L        | 0.78   | 0.51 J | 0.63 J |
| Turbidity                     | NTU         | 12.3   | 9.1    | 12.0   |

**Note:**

U - Not detected at the associated reporting limit  
J - Estimated concentration

Table 3

**Analytical Methods**  
**Groundwater and Surface Water Sampling Event**  
**Rhinelanders Landfill**  
**Rhinelanders, Wisconsin**  
**April 2019**

| Parameter                        | Method      | Matrix | Holding Time                          |   |
|----------------------------------|-------------|--------|---------------------------------------|---|
|                                  |             |        | Collection to<br>Extraction<br>(days) | Collection or Extraction<br>to Analysis<br>(days) |
| Volatile Organic Compounds (VOC) | SW-846 8260 | Water  | -                                     | 14  |
| Select Metals                    | SW-846 6010 | Water  | -                                     | 180   |
| Select Metals, (dissolved)       | SW-846 6010 | Water  | -                                     | 180   |
| Hardness                         | SM 2340B    | Water  | -                                     | 180   |
| Fecal Coliforms                  | SM 9222D    | Water  | -                                     | 6 hours   |
| Chloride                         | EPA 300.0   | Water  | -                                     | 28  |
| Ammonia                          | EPA 350.1   | Water  | -                                     | 28  |
| Total Kjeldahl Nitrogen (TKN)    | EPA 351.2   | Water  | -                                     | 28  |
| Chemical Oxygen Demand (COD)     | EPA 410.4   | Water  | -                                     | 28  |
| Nitrate/Nitrite                  | EPA 353.2   | Water  | -                                     | 28  |
| Alkalinity                       | EPA 310.2   | Water  | -                                     | 14  |
| Turbidity                        | EPA 180.1   | Water  | -                                     | 48 hours  |

Notes:

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods For the Examination of Water and Wastewater"
- EPA - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions

Table 4

**Qualified Sample Results Due to Holding Time Exceedance  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill  
Rhineland, Wisconsin  
April 2019**

| <b>Parameter</b>        | <b>Sample ID</b> | <b>Holding Time (hours)</b> | <b>Holding Time Criteria (hours)</b> | <b>Analyte</b>          | <b>Qualified Sample Results</b> | <b>Units</b> |
|-------------------------|------------------|-----------------------------|--------------------------------------|-------------------------|---------------------------------|--------------|
| Fecal coliform bacteria | SW-20            | 26                          | 6                                    | Fecal coliform bacteria | 2.00 J                          | cfu/100mL    |
|                         | SW-28            | 26                          | 6                                    | Fecal coliform bacteria | 5.71 J                          | cfu/100mL    |
|                         | SW-10            | 25                          | 6                                    | Fecal coliform bacteria | 28.0 J                          | cfu/100mL    |

## Notes:

J - Estimated concentration

Table 5

**Qualified Sample Results Due to Analyte Concentrations in the Method Blanks  
Groundwater and Surface Water Sampling Event  
Rhineland Landfill  
Rhineland, Wisconsin  
April 2019**

| Parameter | Analyte | Analysis Batch | Blank Result * | Sample ID | Original Result | Qualified Result | Units |
|-----------|---------|----------------|----------------|-----------|-----------------|------------------|-------|
| Metals    | Lead    | 320257         | 8.0J           | SW-28     | 6.1 J           | 19.7 U           | ug/L  |
|           |         |                |                | SW-10     | 7.6 J           | 19.7 U           | ug/L  |

## Notes:

- \* - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit
- J - Estimated concentration

# Appendix B

## Groundwater Sampling Laboratory Reports and Data Validation

December 12, 2019

Grant Anderson  
GHD Services; St. Paul  
1801 Old Highway 8 Northwest  
Suite 114  
Saint Paul, MN 55112

RE: Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 40196011001 | MW-20C      | Water  | 09/24/19 16:00 | 09/26/19 09:40 |
| 40196011002 | MW-20B      | Water  | 09/24/19 16:02 | 09/26/19 09:40 |
| 40196011003 | MW-4A       | Water  | 09/24/19 14:16 | 09/26/19 09:40 |
| 40196011004 | MW-5A       | Water  | 09/24/19 14:35 | 09/26/19 09:40 |
| 40196011005 | MW-25B      | Water  | 09/24/19 15:28 | 09/26/19 09:40 |
| 40196011006 | MW-20A      | Water  | 09/24/19 16:11 | 09/26/19 09:40 |
| 40196011007 | MW-16A      | Water  | 09/25/19 09:44 | 09/26/19 09:40 |
| 40196011008 | MW-16A DUP  | Water  | 09/25/19 09:44 | 09/26/19 09:40 |
| 40196011009 | MW-16B      | Water  | 09/25/19 09:44 | 09/26/19 09:40 |
| 40196011010 | FIELD BLANK | Water  | 09/25/19 09:44 | 09/26/19 09:40 |
| 40196011011 | MW-16C      | Water  | 09/25/19 10:07 | 09/26/19 09:40 |
| 40196011012 | MW-18A      | Water  | 09/25/19 10:26 | 09/26/19 09:40 |
| 40196011013 | MW-18B      | Water  | 09/25/19 10:23 | 09/26/19 09:40 |
| 40196011014 | MW-18C      | Water  | 09/25/19 11:38 | 09/26/19 09:40 |
| 40196011015 | MW-26B      | Water  | 09/25/19 11:09 | 09/26/19 09:40 |
| 40196011016 | MW-26C      | Water  | 09/25/19 11:10 | 09/26/19 09:40 |
| 40196011017 | MW-28A      | Water  | 09/25/19 12:32 | 09/26/19 09:40 |
| 40196011018 | MW-27B      | Water  | 09/25/19 12:36 | 09/26/19 09:40 |
| 40196011019 | MW-21A      | Water  | 09/25/19 13:44 | 09/26/19 09:40 |
| 40196011020 | MW-2A       | Water  | 09/25/19 14:06 | 09/26/19 09:40 |
| 40196011021 | MW-2B       | Water  | 09/25/19 14:30 | 09/26/19 09:40 |
| 40196011022 | TRIP BLANK  | Water  | 09/25/19 00:00 | 09/26/19 09:40 |
| 40196011023 | MW-19B      | Water  | 09/24/19 00:00 | 09/26/19 09:40 |
| 40196011024 | MW-19C      | Water  | 09/24/19 00:00 | 09/26/19 09:40 |
| 40196011025 | MW-28B      | Water  | 09/25/19 00:00 | 09/26/19 09:40 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID  | Method    | Analysts | Analytes Reported |
|-------------|------------|-----------|----------|-------------------|
| 40196011001 | MW-20C     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011002 | MW-20B     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011003 | MW-4A      | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011004 | MW-5A      | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011005 | MW-25B     | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011006 | MW-20A     | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011007 | MW-16A     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011008 | MW-16A DUP | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           |          |                   |

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### SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID   | Method    | Analysts | Analytes Reported |
|-------------|-------------|-----------|----------|-------------------|
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011009 | MW-16B      | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011010 | FIELD BLANK | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011011 | MW-16C      | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011012 | MW-18A      | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011013 | MW-18B      | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011014 | MW-18C      | EPA 6010  | TXW      | 4                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |
| 40196011015 | MW-26B      | EPA 6010  | TXW      | 3                 |
|             |             | EPA 8260  | SMT      | 65                |
|             |             |           | AXL      | 6                 |
|             |             | EPA 300.0 | HMB      | 1                 |
|             |             | EPA 310.2 | DAW      | 1                 |

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### SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID  | Method    | Analysts | Analytes Reported |
|-------------|------------|-----------|----------|-------------------|
| 40196011016 | MW-26C     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
| 40196011017 | MW-28A     | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
| 40196011018 | MW-27B     | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | SMT      | 65                |
| AXL         | 6          |           |          |                   |
| 40196011019 | MW-21A     | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | SMT      | 65                |
| AXL         | 6          |           |          |                   |
| 40196011020 | MW-2A      | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 350.1 | TMK      | 1                 |
|             |            | EPA 351.2 | TMK      | 1                 |
| EPA 6010    | TXW        |           | 4        |                   |
| 40196011021 | MW-2B      | EPA 8260  | SMT      | 65                |
|             |            |           | AXL      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011022 | TRIP BLANK | EPA 350.1 | TMK      | 1                 |
|             |            | EPA 351.2 | TMK      | 1                 |
|             |            | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
| AXL         | 6          |           |          |                   |
| 40196011023 | MW-19B     | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40196011024 | MW-19C     | EPA 8260  | LAP      | 65                |
|             |            |           | AXL      | 6                 |

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### SAMPLE ANALYTE COUNT

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

---

| Lab ID      | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|--------|----------|-------------------|
| 40196011025 | MW-28B    |        | AXL      | 5                 |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-20C**      **Lab ID: 40196011001**      Collected: 09/24/19 16:00      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>23400</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:34 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1390</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:34 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>205</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:34 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.90J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 11:35 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:35 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 11:35 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 11:35 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 11:35 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 11:35 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:35 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 11:35 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 11:35 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 11:35 | 56-23-5    |      |
| Chlorobenzene                      | <b>0.83J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:35 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:35 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:35 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 11:35 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 11:35 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 11:35 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 11:35 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 11:35 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:35 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:35 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:35 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 11:35 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:35 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 11:35 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:35 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:35 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:35 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:35 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 11:35 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:35 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:35 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 11:35 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 11:35 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 11:35 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 11:35 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 11:35 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 11:35 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 11:35 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 11:35 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 11:35 | 99-87-6    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-20C**      **Lab ID: 40196011001**      Collected: 09/24/19 16:00      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 11:35 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 11:35 | 1634-04-4   |      |
| Naphthalene  | 5.5     | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 11:35 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 11:35 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 11:35 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 11:35 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 11:35 | 79-34-5     |      |
| Tetrachloroethene                                    | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 11:35 | 127-18-4    |      |
| Tetrahydrofuran                                      | 11.5J   | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 11:35 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 11:35 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 11:35 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 11:35 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 11:35 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 11:35 | 79-00-5     |      |
| Trichloroethene                                      | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 11:35 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 11:35 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 11:35 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 11:35 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 11:35 | 108-67-8    |      |
| Vinyl chloride                                       | 0.64J   | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 11:35 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 11:35 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 11:35 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 99      | %          | 70-130 |      | 1  |          | 09/30/19 11:35 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 98      | %          | 70-130 |      | 1  |          | 09/30/19 11:35 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 98      | %          | 70-130 |      | 1  |          | 09/30/19 11:35 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 6.65    | Std. Units |        |      | 1  |          | 09/24/19 16:00 |             |      |
| Field Specific Conductance                           | 620     | umhos/cm   |        |      | 1  |          | 09/24/19 16:00 |             |      |
| Oxygen, Dissolved                                    | 2       | mg/L       |        |      | 1  |          | 09/24/19 16:00 | 7782-44-7   |      |
| REDOX  | -124    | mV         |        |      | 1  |          | 09/24/19 16:00 |             |      |
| Turbidity  | 1.8     | NTU        |        |      | 1  |          | 09/24/19 16:00 |             |      |
| Temperature, Water (C)                               | 13.3    | deg C      |        |      | 1  |          | 09/24/19 16:00 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 44.9    | mg/L       | 10.0   | 2.5  | 5  |          | 10/04/19 16:45 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 186     | mg/L       | 23.5   | 7.0  | 1  |          | 10/07/19 12:02 |             |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-20B**      **Lab ID: 40196011002**      Collected: 09/24/19 16:02      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>17900</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:36 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1030</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:36 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>169</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:36 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.67J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 11:54 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:54 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 11:54 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 11:54 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 11:54 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 11:54 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:54 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 11:54 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 11:54 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 11:54 | 56-23-5    |      |
| Chlorobenzene                      | <b>0.97J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:54 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:54 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:54 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 11:54 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 11:54 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 11:54 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 11:54 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 11:54 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:54 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:54 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:54 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 11:54 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:54 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 11:54 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:54 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:54 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:54 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:54 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 11:54 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:54 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:54 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 11:54 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 11:54 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 11:54 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 11:54 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 11:54 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 11:54 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 11:54 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 11:54 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 11:54 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-20B**      **Lab ID: 40196011002**      Collected: 09/24/19 16:02      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 11:54 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 11:54 | 1634-04-4   |      |
| Naphthalene                | 6.4     | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 11:54 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 11:54 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 11:54 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 11:54 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 11:54 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 11:54 | 127-18-4    |      |
| Tetrahydrofuran            | 5.4J    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 11:54 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 11:54 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 11:54 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 11:54 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 11:54 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 11:54 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 11:54 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 11:54 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 11:54 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 11:54 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 11:54 | 108-67-8    |      |
| Vinyl chloride             | 0.19J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 11:54 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 11:54 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 11:54 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 11:54 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 101     | %                            | 70-130 |      | 1  |          | 09/30/19 11:54 | 1868-53-7   |      |
| Toluene-d8 (S)             | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 11:54 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.09    | Std. Units                   |        |      | 1  |          | 09/24/19 16:02 |             |      |
| Field Specific Conductance | 536     | umhos/cm                     |        |      | 1  |          | 09/24/19 16:02 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/24/19 16:02 | 7782-44-7   |      |
| REDOX                      | -130    | mV                           |        |      | 1  |          | 09/24/19 16:02 |             |      |
| Turbidity                  | 11.1    | NTU                          |        |      | 1  |          | 09/24/19 16:02 |             |      |
| Temperature, Water (C)     | 10.79   | deg C                        |        |      | 1  |          | 09/24/19 16:02 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 43.9    | mg/L                         | 10.0   | 2.5  | 5  |          | 10/04/19 16:58 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 140     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 12:03 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-4A**      **Lab ID: 40196011003**      Collected: 09/24/19 14:16      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>16.3J</b>    | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 01:39 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>&lt;29.6</b> | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:39 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>&lt;1.1</b>  | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:39 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>144</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:39 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 12:14 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:14 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 12:14 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 12:14 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 12:14 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 12:14 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:14 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 12:14 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 12:14 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 12:14 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:14 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:14 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:14 | 67-66-3    |      |
| Chloromethane                      | <b>2.6J</b>     | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 12:14 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 12:14 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 12:14 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 12:14 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 12:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:14 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 12:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:14 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 12:14 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:14 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:14 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:14 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 12:14 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:14 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:14 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 12:14 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 12:14 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 12:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 12:14 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 12:14 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 12:14 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 12:14 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 12:14 | 98-82-8    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-4A**      **Lab ID: 40196011003**      Collected: 09/24/19 14:16      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 12:14 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 12:14 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 12:14 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 12:14 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 12:14 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 12:14 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 12:14 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 12:14 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 12:14 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 12:14 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 12:14 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 12:14 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 12:14 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 12:14 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 12:14 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 12:14 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 12:14 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 12:14 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 12:14 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 12:14 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 12:14 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 12:14 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 12:14 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 12:14 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 98      | %                            | 70-130 |      | 1  |          | 09/30/19 12:14 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 12:14 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.16    | Std. Units                   |        |      | 1  |          | 09/24/19 14:16 |             |      |
| Field Specific Conductance | 342     | umhos/cm                     |        |      | 1  |          | 09/24/19 14:16 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/24/19 14:16 | 7782-44-7   |      |
| REDOX                      | 183     | mV                           |        |      | 1  |          | 09/24/19 14:16 |             |      |
| Turbidity                  | 0       | NTU                          |        |      | 1  |          | 09/24/19 14:16 |             |      |
| Temperature, Water (C)     | 11.37   | deg C                        |        |      | 1  |          | 09/24/19 14:16 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 22.4    | mg/L                         | 2.0    | 0.50 | 1  |          | 10/04/19 17:11 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 111     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 12:03 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-5A**      **Lab ID: 40196011004**      Collected: 09/24/19 14:35      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>18.7J</b>    | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 01:41 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>56.4J</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:41 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>2490</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:41 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>958</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:41 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 12:34 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:34 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 12:34 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 12:34 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 12:34 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 12:34 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:34 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 12:34 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 12:34 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 12:34 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:34 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:34 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:34 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 12:34 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 12:34 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 12:34 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 12:34 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 12:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:34 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 12:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:34 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 12:34 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:34 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:34 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 12:34 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:34 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:34 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 12:34 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 12:34 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 12:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 12:34 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 12:34 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 12:34 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 12:34 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 12:34 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-5A**      **Lab ID: 40196011004**      Collected: 09/24/19 14:35      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF  | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|-----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |     |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1   |          | 09/30/19 12:34 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1   |          | 09/30/19 12:34 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1   |          | 09/30/19 12:34 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1   |          | 09/30/19 12:34 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1   |          | 09/30/19 12:34 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1   |          | 09/30/19 12:34 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1   |          | 09/30/19 12:34 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1   |          | 09/30/19 12:34 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1   |          | 09/30/19 12:34 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1   |          | 09/30/19 12:34 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1   |          | 09/30/19 12:34 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1   |          | 09/30/19 12:34 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1   |          | 09/30/19 12:34 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1   |          | 09/30/19 12:34 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1   |          | 09/30/19 12:34 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1   |          | 09/30/19 12:34 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1   |          | 09/30/19 12:34 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1   |          | 09/30/19 12:34 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1   |          | 09/30/19 12:34 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1   |          | 09/30/19 12:34 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1   |          | 09/30/19 12:34 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1   |          | 09/30/19 12:34 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1   |          | 09/30/19 12:34 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |     |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 98      | %                            | 70-130 |      | 1   |          | 09/30/19 12:34 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 97      | %                            | 70-130 |      | 1   |          | 09/30/19 12:34 | 1868-53-7   |      |
| Toluene-d8 (S)             | 101     | %                            | 70-130 |      | 1   |          | 09/30/19 12:34 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |     |          |                |             |      |
| Field pH                   | 5.35    | Std. Units                   |        |      | 1   |          | 09/24/19 14:35 |             |      |
| Field Specific Conductance | 4360    | umhos/cm                     |        |      | 1   |          | 09/24/19 14:35 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1   |          | 09/24/19 14:35 | 7782-44-7   |      |
| REDOX                      | 278     | mV                           |        |      | 1   |          | 09/24/19 14:35 |             |      |
| Turbidity                  | 0       | NTU                          |        |      | 1   |          | 09/24/19 14:35 |             |      |
| Temperature, Water (C)     | 12.86   | deg C                        |        |      | 1   |          | 09/24/19 14:35 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |     |          |                |             |      |
| Chloride                   | 1200    | mg/L                         | 200    | 50.0 | 100 |          | 10/07/19 12:17 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |     |          |                |             |      |
| Alkalinity, Total as CaCO3 | 21.1J   | mg/L                         | 23.5   | 7.0  | 1   |          | 10/07/19 12:04 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-25B**      **Lab ID: 40196011005**      Collected: 09/24/19 15:28      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>11.4J</b>    | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 01:44 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>73.6J</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:44 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>41.4</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:44 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>187</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:44 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 12:53 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:53 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 12:53 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 12:53 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 12:53 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 12:53 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:53 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 12:53 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 12:53 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 12:53 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:53 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:53 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 12:53 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 12:53 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 12:53 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 12:53 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 12:53 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 12:53 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:53 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:53 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 12:53 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 12:53 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 12:53 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 12:53 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:53 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:53 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 12:53 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 12:53 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 12:53 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 12:53 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 12:53 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 12:53 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 12:53 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 12:53 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 12:53 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 12:53 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 12:53 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 12:53 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 12:53 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-25B**      **Lab ID: 40196011005**      Collected: 09/24/19 15:28      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 12:53 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 12:53 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 12:53 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 12:53 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 12:53 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 12:53 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 12:53 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 12:53 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 12:53 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 12:53 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 12:53 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 12:53 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 12:53 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 12:53 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 12:53 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 12:53 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 12:53 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 12:53 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 12:53 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 12:53 | 108-67-8    |      |
| Vinyl chloride             | 1.4     | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 12:53 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 12:53 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 12:53 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 96      | %                            | 70-130 |      | 1  |          | 09/30/19 12:53 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 102     | %                            | 70-130 |      | 1  |          | 09/30/19 12:53 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 12:53 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 8       | Std. Units                   |        |      | 1  |          | 09/24/19 15:28 |             |      |
| Field Specific Conductance | 413     | umhos/cm                     |        |      | 1  |          | 09/24/19 15:28 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/24/19 15:28 | 7782-44-7   |      |
| REDOX                      | 160     | mV                           |        |      | 1  |          | 09/24/19 15:28 |             |      |
| Turbidity                  | 216     | NTU                          |        |      | 1  |          | 09/24/19 15:28 |             |      |
| Temperature, Water (C)     | 9.83    | deg C                        |        |      | 1  |          | 09/24/19 15:28 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 16.8    | mg/L                         | 2.0    | 0.50 | 1  |          | 10/04/19 17:37 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 148     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 12:04 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-20A**      **Lab ID: 40196011006**      Collected: 09/24/19 16:11      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>813</b>      | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 01:46 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>115000</b>   | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:46 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>953</b>      | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:46 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>264</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:46 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>2.2</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 13:13 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:13 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 13:13 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 13:13 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 13:13 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 13:13 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:13 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 13:13 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 13:13 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 13:13 | 56-23-5    |      |
| Chlorobenzene                      | <b>7.2</b>      | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:13 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:13 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:13 | 67-66-3    |      |
| Chloromethane                      | <b>3.4J</b>     | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 13:13 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 13:13 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 13:13 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 13:13 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 13:13 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:13 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:13 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>0.85J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:13 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 13:13 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>2.0J</b>     | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:13 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 13:13 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:13 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:13 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:13 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:13 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 13:13 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:13 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:13 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 13:13 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 13:13 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 13:13 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 13:13 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 13:13 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 13:13 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 13:13 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>4.3J</b>     | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 13:13 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-20A**      **Lab ID: 40196011006**      Collected: 09/24/19 16:11      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 13:13 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 13:13 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 13:13 | 1634-04-4   |      |
| Naphthalene                | 18.3    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 13:13 | 91-20-3     |      |
| n-Propylbenzene            | 2.9J    | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 13:13 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 13:13 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 13:13 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 13:13 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 13:13 | 127-18-4    |      |
| Tetrahydrofuran            | 12.4J   | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 13:13 | 109-99-9    |      |
| Toluene                    | 0.35J   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 13:13 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 13:13 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 13:13 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 13:13 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 13:13 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 13:13 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 13:13 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 13:13 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | 23.7    | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 13:13 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | 4.4     | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 13:13 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 13:13 | 75-01-4     |      |
| m&p-Xylene                 | 53.0    | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 13:13 | 179601-23-1 |      |
| o-Xylene                   | 1.6     | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 13:13 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 13:13 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 13:13 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 13:13 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 6.11    | Std. Units                   |        |      | 1  |          | 09/24/19 16:11 |             |      |
| Field Specific Conductance | 1130    | umhos/cm                     |        |      | 1  |          | 09/24/19 16:11 |             |      |
| Oxygen, Dissolved          | 1.85    | mg/L                         |        |      | 1  |          | 09/24/19 16:11 | 7782-44-7   |      |
| REDOX                      | -94     | mV                           |        |      | 1  |          | 09/24/19 16:11 |             |      |
| Turbidity                  | 36.3    | NTU                          |        |      | 1  |          | 09/24/19 16:11 |             |      |
| Temperature, Water (C)     | 17.46   | deg C                        |        |      | 1  |          | 09/24/19 16:11 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 11.8    | mg/L                         | 10.0   | 2.5  | 5  |          | 10/04/19 17:51 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 446     | mg/L                         | 47.0   | 14.1 | 2  |          | 10/07/19 12:05 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-16A**      **Lab ID: 40196011007**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>5310</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:48 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>4430</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:48 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>249</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:48 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.1</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 13:32 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:32 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 13:32 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 13:32 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 13:32 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 13:32 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:32 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 13:32 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 13:32 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 13:32 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:32 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:32 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:32 | 67-66-3    |      |
| Chloromethane                      | <b>3.7J</b>     | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 13:32 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 13:32 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 13:32 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 13:32 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 13:32 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:32 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:32 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:32 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 13:32 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:32 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 13:32 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>0.41J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:32 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:32 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:32 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:32 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 13:32 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:32 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:32 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 13:32 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 13:32 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 13:32 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 13:32 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 13:32 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 13:32 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 13:32 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 13:32 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 13:32 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-16A**      **Lab ID: 40196011007**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 13:32 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 13:32 | 1634-04-4   |      |
| Naphthalene  | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 13:32 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 13:32 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 13:32 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 13:32 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 13:32 | 79-34-5     |      |
| Tetrachloroethene                                    | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 13:32 | 127-18-4    |      |
| Tetrahydrofuran                                      | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 13:32 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 13:32 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 13:32 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 13:32 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 13:32 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 13:32 | 79-00-5     |      |
| Trichloroethene                                      | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 13:32 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 13:32 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 13:32 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 13:32 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 13:32 | 108-67-8    |      |
| Vinyl chloride                                       | 1.1     | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 13:32 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 13:32 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 13:32 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 96      | %          | 70-130 |      | 1  |          | 09/30/19 13:32 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 102     | %          | 70-130 |      | 1  |          | 09/30/19 13:32 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 98      | %          | 70-130 |      | 1  |          | 09/30/19 13:32 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 6.99    | Std. Units |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Field Specific Conductance                           | 609     | umhos/cm   |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Oxygen, Dissolved                                    | 0       | mg/L       |        |      | 1  |          | 09/25/19 09:44 | 7782-44-7   |      |
| REDOX  | -128    | mV         |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Turbidity  | 29      | NTU        |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Temperature, Water (C)                               | 9.96    | deg C      |        |      | 1  |          | 09/25/19 09:44 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 28.7    | mg/L       | 2.0    | 0.50 | 1  |          | 10/04/19 18:04 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 225     | mg/L       | 47.0   | 14.1 | 2  |          | 10/07/19 13:23 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-16A DUP**      **Lab ID: 40196011008**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>5540</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:51 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>4430</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:51 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>245</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:51 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.1</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 13:52 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:52 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 13:52 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 13:52 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 13:52 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 13:52 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:52 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 13:52 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 13:52 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 13:52 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:52 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:52 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 13:52 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 13:52 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 13:52 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 13:52 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 13:52 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 13:52 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:52 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:52 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 13:52 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 13:52 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 13:52 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 13:52 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>0.43J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:52 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:52 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 13:52 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 13:52 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 13:52 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 13:52 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 13:52 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 13:52 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 13:52 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 13:52 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 13:52 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 13:52 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 13:52 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 13:52 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 13:52 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 13:52 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-16A DUP**      **Lab ID: 40196011008**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 13:52 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 13:52 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 13:52 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 13:52 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 13:52 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 13:52 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 13:52 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 13:52 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 13:52 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 13:52 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 13:52 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 13:52 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 13:52 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 13:52 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 13:52 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 13:52 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 13:52 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 13:52 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 13:52 | 108-67-8    |      |
| Vinyl chloride             | 1.1     | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 13:52 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 13:52 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 13:52 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 96      | %                            | 70-130 |      | 1  |          | 09/30/19 13:52 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 98      | %                            | 70-130 |      | 1  |          | 09/30/19 13:52 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 13:52 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 6.99    | Std. Units                   |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Field Specific Conductance | 609     | umhos/cm                     |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 09:44 | 7782-44-7   |      |
| REDOX                      | -128    | mV                           |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Turbidity                  | 29      | NTU                          |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Temperature, Water (C)     | 9.96    | deg C                        |        |      | 1  |          | 09/25/19 09:44 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 28.7    | mg/L                         | 2.0    | 0.50 | 1  |          | 10/04/19 18:17 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 230     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:27 |             |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-16B**      **Lab ID: 40196011009**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>35600</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:53 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>3640</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:53 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>241</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:53 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.2</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 14:11 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:11 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 14:11 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 14:11 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 14:11 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 14:11 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:11 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 14:11 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 14:11 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 14:11 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:11 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:11 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:11 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 14:11 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 14:11 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 14:11 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 14:11 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 14:11 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:11 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:11 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:11 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 14:11 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:11 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 14:11 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>0.41J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:11 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:11 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:11 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:11 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 14:11 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:11 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:11 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 14:11 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 14:11 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 14:11 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 14:11 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 14:11 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 14:11 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 14:11 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 14:11 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 14:11 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-16B**      **Lab ID: 40196011009**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 14:11 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 14:11 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 14:11 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 14:11 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 14:11 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 14:11 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 14:11 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 14:11 | 127-18-4    |      |
| Tetrahydrofuran            | 2.8J    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 14:11 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 14:11 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 14:11 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 14:11 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 14:11 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 14:11 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:11 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 14:11 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 14:11 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 14:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 14:11 | 108-67-8    |      |
| Vinyl chloride             | 0.27J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 14:11 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 14:11 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:11 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 101     | %                            | 70-130 |      | 1  |          | 09/30/19 14:11 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 102     | %                            | 70-130 |      | 1  |          | 09/30/19 14:11 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 14:11 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.98    | Std. Units                   |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Field Specific Conductance | 667     | umhos/cm                     |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Oxygen, Dissolved          | 3.95    | mg/L                         |        |      | 1  |          | 09/25/19 09:44 | 7782-44-7   |      |
| REDOX                      | -164    | mV                           |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Turbidity                  | 4.7     | NTU                          |        |      | 1  |          | 09/25/19 09:44 |             |      |
| Temperature, Water (C)     | 11.69   | deg C                        |        |      | 1  |          | 09/25/19 09:44 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 34.2    | mg/L                         | 10.0   | 2.5  | 5  |          | 10/04/19 19:10 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 228     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:28 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: FIELD BLANK**      **Lab ID: 40196011010**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|---------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |         | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <29.6   | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 02:01 | 7439-89-6  |      |
| Manganese, Dissolved               | <1.1    | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 02:01 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | 3.4     | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 02:01 |            |      |
| <b>8260 MSV</b>                    |         | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <0.25   | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 14:31 | 71-43-2    |      |
| Bromobenzene                       | <0.24   | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:31 | 108-86-1   |      |
| Bromochloromethane                 | <0.36   | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 14:31 | 74-97-5    |      |
| Bromodichloromethane               | <0.36   | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 14:31 | 75-27-4    |      |
| Bromoform                          | <4.0    | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 14:31 | 75-25-2    |      |
| Bromomethane                       | <0.97   | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 14:31 | 74-83-9    |      |
| n-Butylbenzene                     | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:31 | 104-51-8   |      |
| sec-Butylbenzene                   | <0.85   | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 14:31 | 135-98-8   |      |
| tert-Butylbenzene                  | <0.30   | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 14:31 | 98-06-6    |      |
| Carbon tetrachloride               | <0.17   | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 14:31 | 56-23-5    |      |
| Chlorobenzene                      | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:31 | 108-90-7   |      |
| Chloroethane                       | <1.3    | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:31 | 75-00-3    |      |
| Chloroform                         | <1.3    | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:31 | 67-66-3    |      |
| Chloromethane                      | <2.2    | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 14:31 | 74-87-3    |      |
| 2-Chlorotoluene                    | <0.93   | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 14:31 | 95-49-8    |      |
| 4-Chlorotoluene                    | <0.76   | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 14:31 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <1.8    | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 14:31 | 96-12-8    |      |
| Dibromochloromethane               | <2.6    | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 14:31 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <0.83   | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:31 | 106-93-4   |      |
| Dibromomethane                     | <0.94   | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:31 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:31 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <0.63   | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 14:31 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <0.94   | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:31 | 106-46-7   |      |
| Dichlorodifluoromethane            | <0.50   | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 14:31 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <0.27   | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:31 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <0.28   | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:31 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <0.24   | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:31 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <0.27   | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:31 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <1.1    | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 14:31 | 156-60-5   |      |
| 1,2-Dichloropropane                | <0.28   | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:31 | 78-87-5    |      |
| 1,3-Dichloropropane                | <0.83   | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:31 | 142-28-9   |      |
| 2,2-Dichloropropane                | <2.3    | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 14:31 | 594-20-7   |      |
| 1,1-Dichloropropene                | <0.54   | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 14:31 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <3.6    | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 14:31 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <4.4    | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 14:31 | 10061-02-6 |      |
| Diisopropyl ether                  | <1.9    | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 14:31 | 108-20-3   |      |
| Ethylbenzene                       | <0.22   | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 14:31 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <1.2    | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 14:31 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <0.39   | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 14:31 | 98-82-8    |      |
| p-Isopropyltoluene                 | <0.80   | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 14:31 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: FIELD BLANK**      **Lab ID: 40196011010**      Collected: 09/25/19 09:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 14:31 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 14:31 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 14:31 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 14:31 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 14:31 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 14:31 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 14:31 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 14:31 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 14:31 | 109-99-9    |      |
| Toluene                    | 0.25J   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 14:31 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 14:31 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 14:31 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 14:31 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 14:31 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:31 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 14:31 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 14:31 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 14:31 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 14:31 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 14:31 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 14:31 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:31 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 14:31 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 98      | %                            | 70-130 |      | 1  |          | 09/30/19 14:31 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 14:31 | 2037-26-5   |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | <0.50   | mg/L                         | 2.0    | 0.50 | 1  |          | 10/04/19 19:23 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | <7.0    | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:29 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-16C**      **Lab ID: 40196011011**      Collected: 09/25/19 10:07      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>28400</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 01:22 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>2160</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 01:22 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>252</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 01:22 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.1</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 11:15 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:15 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 11:15 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 11:15 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 11:15 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 11:15 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:15 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 11:15 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 11:15 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 11:15 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:15 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:15 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 11:15 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 11:15 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 11:15 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 11:15 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 11:15 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 11:15 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:15 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:15 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 11:15 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 11:15 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 11:15 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 11:15 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:15 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:15 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 11:15 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 11:15 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 11:15 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 11:15 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 11:15 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 11:15 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 11:15 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 11:15 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 11:15 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 11:15 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 11:15 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 11:15 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 11:15 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 11:15 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-16C**      **Lab ID: 40196011011**      Collected: 09/25/19 10:07      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 11:15 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 11:15 | 1634-04-4   |      |
| Naphthalene                | 3.6J    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 11:15 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 11:15 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 11:15 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 11:15 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 11:15 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 11:15 | 127-18-4    |      |
| Tetrahydrofuran            | 8.2J    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 11:15 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 11:15 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 11:15 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 11:15 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 11:15 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 11:15 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 11:15 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 11:15 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 11:15 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 11:15 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 11:15 | 108-67-8    |      |
| Vinyl chloride             | 0.29J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 11:15 | 75-01-4     |      |
| m&p-Xylene                 | 0.75J   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 11:15 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 11:15 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 11:15 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 11:15 | 1868-53-7   |      |
| Toluene-d8 (S)             | 98      | %                            | 70-130 |      | 1  |          | 09/30/19 11:15 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 8.25    | Std. Units                   |        |      | 1  |          | 09/25/19 10:07 |             |      |
| Field Specific Conductance | 732     | umhos/cm                     |        |      | 1  |          | 09/25/19 10:07 |             |      |
| Oxygen, Dissolved          | 0.39    | mg/L                         |        |      | 1  |          | 09/25/19 10:07 | 7782-44-7   |      |
| REDOX                      | -116    | mV                           |        |      | 1  |          | 09/25/19 10:07 |             |      |
| Turbidity                  | 12      | NTU                          |        |      | 1  |          | 09/25/19 10:07 |             |      |
| Temperature, Water (C)     | 10.26   | deg C                        |        |      | 1  |          | 09/25/19 10:07 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 40.2    | mg/L                         | 10.0   | 2.5  | 5  |          | 10/04/19 19:36 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 239     | mg/L                         | 47.0   | 14.1 | 2  |          | 10/07/19 13:29 |             | M0   |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-18A**      **Lab ID: 40196011012**      Collected: 09/25/19 10:26      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>2880</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 02:03 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1180</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 02:03 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>271</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 02:03 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 14:51 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:51 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 14:51 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 14:51 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 14:51 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 14:51 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:51 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 14:51 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 14:51 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 14:51 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:51 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:51 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 14:51 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 14:51 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 14:51 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 14:51 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 14:51 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 14:51 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:51 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:51 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 14:51 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 14:51 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 14:51 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 14:51 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:51 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:51 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 14:51 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>4.1</b>      | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 14:51 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 14:51 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 14:51 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 14:51 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 14:51 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 14:51 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 14:51 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 14:51 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 14:51 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 14:51 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 14:51 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 14:51 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 14:51 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-18A**      **Lab ID: 40196011012**      Collected: 09/25/19 10:26      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 14:51 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 14:51 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 14:51 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 14:51 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 14:51 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 14:51 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 14:51 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 14:51 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 14:51 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 14:51 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 14:51 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 14:51 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 14:51 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 14:51 | 79-00-5     |      |
| Trichloroethene            | 3.7     | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:51 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 14:51 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 14:51 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 14:51 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 14:51 | 108-67-8    |      |
| Vinyl chloride             | 0.31J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 14:51 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 14:51 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 14:51 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 14:51 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 104     | %                            | 70-130 |      | 1  |          | 09/30/19 14:51 | 1868-53-7   |      |
| Toluene-d8 (S)             | 101     | %                            | 70-130 |      | 1  |          | 09/30/19 14:51 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.2     | Std. Units                   |        |      | 1  |          | 09/25/19 10:26 |             |      |
| Field Specific Conductance | 691     | umhos/cm                     |        |      | 1  |          | 09/25/19 10:26 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 10:26 | 7782-44-7   |      |
| REDOX                      | -131    | mV                           |        |      | 1  |          | 09/25/19 10:26 |             |      |
| Turbidity                  | 4.6     | NTU                          |        |      | 1  |          | 09/25/19 10:26 |             |      |
| Temperature, Water (C)     | 12.51   | deg C                        |        |      | 1  |          | 09/25/19 10:26 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 71.6    | mg/L                         | 10.0   | 2.5  | 5  |          | 10/07/19 12:30 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 177     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:31 |             |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-18B**      **Lab ID: 40196011013**      Collected: 09/25/19 10:23      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>30.7J</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 02:06 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>2330</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 02:06 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>395</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 02:06 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 15:10 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:10 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 15:10 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 15:10 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 15:10 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 15:10 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:10 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 15:10 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 15:10 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 15:10 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:10 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:10 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:10 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 15:10 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 15:10 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 15:10 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 15:10 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 15:10 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:10 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:10 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:10 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 15:10 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:10 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 15:10 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:10 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:10 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:10 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>0.83J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:10 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 15:10 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:10 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:10 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 15:10 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 15:10 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 15:10 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 15:10 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 15:10 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 15:10 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 15:10 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 15:10 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 15:10 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-18B**      **Lab ID: 40196011013**      Collected: 09/25/19 10:23      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 15:10 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 15:10 | 1634-04-4   |      |
| Naphthalene  | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 15:10 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 15:10 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 15:10 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 15:10 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 15:10 | 79-34-5     |      |
| Tetrachloroethene                                    | 0.72J   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 15:10 | 127-18-4    |      |
| Tetrahydrofuran                                      | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 15:10 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 15:10 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 15:10 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 15:10 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 15:10 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 15:10 | 79-00-5     |      |
| Trichloroethene                                      | 7.5     | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 15:10 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 15:10 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 15:10 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 15:10 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 15:10 | 108-67-8    |      |
| Vinyl chloride                                       | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 15:10 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 15:10 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 15:10 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 95      | %          | 70-130 |      | 1  |          | 09/30/19 15:10 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 102     | %          | 70-130 |      | 1  |          | 09/30/19 15:10 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 99      | %          | 70-130 |      | 1  |          | 09/30/19 15:10 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 6.68    | Std. Units |        |      | 1  |          | 09/25/19 10:23 |             |      |
| Field Specific Conductance                           | 937     | umhos/cm   |        |      | 1  |          | 09/25/19 10:23 |             |      |
| Oxygen, Dissolved                                    | 0       | mg/L       |        |      | 1  |          | 09/25/19 10:23 | 7782-44-7   |      |
| REDOX  | -16     | mV         |        |      | 1  |          | 09/25/19 10:23 |             |      |
| Turbidity  | 29.9    | NTU        |        |      | 1  |          | 09/25/19 10:23 |             |      |
| Temperature, Water (C)                               | 10.69   | deg C      |        |      | 1  |          | 09/25/19 10:23 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 147     | mg/L       | 20.0   | 5.0  | 10 |          | 10/04/19 15:42 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 216     | mg/L       | 23.5   | 7.0  | 1  |          | 10/07/19 13:31 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-18C**      **Lab ID: 40196011014**      Collected: 09/25/19 11:38      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>60.8</b>     | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 02:08 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>&lt;29.6</b> | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 02:08 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1460</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 02:08 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>356</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 02:08 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 15:30 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:30 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 15:30 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 15:30 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 15:30 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 15:30 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:30 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 15:30 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 15:30 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 15:30 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:30 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:30 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:30 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 15:30 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 15:30 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 15:30 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 15:30 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 15:30 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:30 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:30 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:30 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 15:30 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:30 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 15:30 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:30 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:30 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:30 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>1.0</b>      | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:30 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 15:30 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:30 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:30 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 15:30 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 15:30 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 15:30 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 15:30 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 15:30 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 15:30 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 15:30 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 15:30 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-18C**      **Lab ID: 40196011014**      Collected: 09/25/19 11:38      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 15:30 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 15:30 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 15:30 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 15:30 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 15:30 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 15:30 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 15:30 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 15:30 | 79-34-5     |      |
| Tetrachloroethene          | 0.84J   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 15:30 | 127-18-4    |      |
| Tetrahydrofuran            | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 15:30 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 15:30 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 15:30 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 15:30 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 15:30 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 15:30 | 79-00-5     |      |
| Trichloroethene            | 16.7    | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 15:30 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 15:30 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 15:30 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 15:30 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 15:30 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 15:30 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 15:30 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 15:30 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 98      | %                            | 70-130 |      | 1  |          | 09/30/19 15:30 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 101     | %                            | 70-130 |      | 1  |          | 09/30/19 15:30 | 1868-53-7   |      |
| Toluene-d8 (S)             | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 15:30 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.06    | Std. Units                   |        |      | 1  |          | 09/25/19 11:38 |             |      |
| Field Specific Conductance | 906     | umhos/cm                     |        |      | 1  |          | 09/25/19 11:38 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 11:38 | 7782-44-7   |      |
| REDOX                      | -10     | mV                           |        |      | 1  |          | 09/25/19 11:38 |             |      |
| Turbidity                  | 2.3     | NTU                          |        |      | 1  |          | 09/25/19 11:38 |             |      |
| Temperature, Water (C)     | 9.86    | deg C                        |        |      | 1  |          | 09/25/19 11:38 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 157     | mg/L                         | 20.0   | 5.0  | 10 |          | 10/04/19 15:56 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 158     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:34 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-26B**      **Lab ID: 40196011015**      Collected: 09/25/19 11:09      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>1410</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 02:11 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>633</b>      | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 02:11 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>216</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 02:11 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 15:50 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:50 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 15:50 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 15:50 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 15:50 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 15:50 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:50 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 15:50 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 15:50 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 15:50 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:50 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:50 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 15:50 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 15:50 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 15:50 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 15:50 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 15:50 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 15:50 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:50 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:50 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 15:50 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 15:50 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 15:50 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 15:50 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:50 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:50 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 15:50 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 15:50 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 15:50 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 15:50 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 15:50 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 15:50 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 15:50 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 15:50 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 15:50 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 15:50 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 15:50 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 15:50 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 15:50 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 15:50 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-26B**      **Lab ID: 40196011015**      Collected: 09/25/19 11:09      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 15:50 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 15:50 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 15:50 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 15:50 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 15:50 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 15:50 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 15:50 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 15:50 | 127-18-4    |      |
| Tetrahydrofuran            | 2.9J    | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 15:50 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 15:50 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 15:50 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 15:50 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 15:50 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 15:50 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 15:50 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 15:50 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 15:50 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 15:50 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 15:50 | 108-67-8    |      |
| Vinyl chloride             | 0.52J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 15:50 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 15:50 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 15:50 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 15:50 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 105     | %                            | 70-130 |      | 1  |          | 09/30/19 15:50 | 1868-53-7   |      |
| Toluene-d8 (S)             | 99      | %                            | 70-130 |      | 1  |          | 09/30/19 15:50 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 7.85    | Std. Units                   |        |      | 1  |          | 09/25/19 11:09 |             |      |
| Field Specific Conductance | 414     | umhos/cm                     |        |      | 1  |          | 09/25/19 11:09 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 11:09 | 7782-44-7   |      |
| REDOX                      | -200    | mV                           |        |      | 1  |          | 09/25/19 11:09 |             |      |
| Turbidity                  | 17.6    | NTU                          |        |      | 1  |          | 09/25/19 11:09 |             |      |
| Temperature, Water (C)     | 15.2    | deg C                        |        |      | 1  |          | 09/25/19 11:09 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 12.2    | mg/L                         | 2.0    | 0.50 | 1  |          | 10/03/19 15:37 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 182     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:35 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-26C**      **Lab ID: 40196011016**      Collected: 09/25/19 11:10      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>1440</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:13 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>2500</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:13 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>256</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:13 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.92J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 16:09 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 16:09 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 16:09 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 16:09 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 16:09 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 16:09 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 16:09 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 16:09 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 16:09 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 16:09 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 16:09 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 16:09 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 16:09 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 16:09 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 16:09 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 16:09 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 16:09 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 16:09 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 16:09 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 16:09 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 16:09 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 16:09 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 16:09 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 16:09 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>0.80J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 16:09 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 16:09 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 16:09 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>0.47J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 16:09 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 16:09 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 16:09 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 16:09 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 16:09 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 16:09 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 16:09 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 16:09 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 16:09 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 16:09 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 16:09 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 16:09 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 16:09 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-26C**      **Lab ID: 40196011016**      Collected: 09/25/19 11:10      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 16:09 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 16:09 | 1634-04-4   |      |
| Naphthalene  | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 16:09 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 16:09 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 16:09 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 16:09 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 16:09 | 79-34-5     |      |
| Tetrachloroethene                                    | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 16:09 | 127-18-4    |      |
| Tetrahydrofuran                                      | 16.3J   | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 16:09 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 16:09 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 16:09 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 16:09 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 16:09 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 16:09 | 79-00-5     |      |
| Trichloroethene                                      | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 16:09 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 16:09 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 16:09 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 16:09 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 16:09 | 108-67-8    |      |
| Vinyl chloride                                       | 3.7     | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 16:09 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 16:09 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 16:09 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 99      | %          | 70-130 |      | 1  |          | 09/30/19 16:09 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 98      | %          | 70-130 |      | 1  |          | 09/30/19 16:09 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 102     | %          | 70-130 |      | 1  |          | 09/30/19 16:09 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 7.42    | Std. Units |        |      | 1  |          | 09/25/19 11:10 |             |      |
| Field Specific Conductance                           | 523     | umhos/cm   |        |      | 1  |          | 09/25/19 11:10 |             |      |
| Oxygen, Dissolved                                    | 0       | mg/L       |        |      | 1  |          | 09/25/19 11:10 | 7782-44-7   |      |
| REDOX  | -140    | mV         |        |      | 1  |          | 09/25/19 11:10 |             |      |
| Turbidity  | 31.2    | NTU        |        |      | 1  |          | 09/25/19 11:10 |             |      |
| Temperature, Water (C)                               | 11.21   | deg C      |        |      | 1  |          | 09/25/19 11:10 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 22.5    | mg/L       | 2.0    | 0.50 | 1  |          | 10/03/19 15:51 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 216     | mg/L       | 23.5   | 7.0  | 1  |          | 10/07/19 13:35 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-28A**      **Lab ID: 40196011017**      Collected: 09/25/19 12:32      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>154</b>      | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 00:20 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>6730</b>     | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:20 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1580</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:20 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>204</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:20 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.55J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 17:42 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 17:42 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 17:42 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 17:42 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 17:42 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 17:42 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 17:42 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 17:42 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 17:42 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 17:42 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 17:42 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 17:42 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 17:42 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 17:42 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 17:42 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 17:42 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 17:42 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 17:42 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 17:42 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 17:42 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 17:42 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 17:42 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 17:42 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 17:42 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 17:42 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 17:42 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 17:42 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 17:42 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 17:42 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 17:42 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 17:42 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 17:42 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 17:42 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 17:42 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 17:42 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 17:42 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 17:42 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 17:42 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 17:42 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-28A**      **Lab ID: 40196011017**      Collected: 09/25/19 12:32      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 17:42 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 17:42 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 17:42 | 1634-04-4   |      |
| Naphthalene                | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 17:42 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 17:42 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 17:42 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 17:42 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 17:42 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 17:42 | 127-18-4    |      |
| Tetrahydrofuran            | 10.1J   | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 17:42 | 109-99-9    |      |
| Toluene                    | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 17:42 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 17:42 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 17:42 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 17:42 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 17:42 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 17:42 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 17:42 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 17:42 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 17:42 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 17:42 | 108-67-8    |      |
| Vinyl chloride             | 0.84J   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 17:42 | 75-01-4     |      |
| m&p-Xylene                 | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 17:42 | 179601-23-1 |      |
| o-Xylene                   | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 17:42 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 17:42 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 95      | %                            | 70-130 |      | 1  |          | 09/30/19 17:42 | 1868-53-7   |      |
| Toluene-d8 (S)             | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 17:42 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 6.58    | Std. Units                   |        |      | 1  |          | 09/25/19 12:32 |             |      |
| Field Specific Conductance | 534     | umhos/cm                     |        |      | 1  |          | 09/25/19 12:32 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 12:32 | 7782-44-7   |      |
| REDOX                      | -57     | mV                           |        |      | 1  |          | 09/25/19 12:32 |             |      |
| Turbidity                  | 15.3    | NTU                          |        |      | 1  |          | 09/25/19 12:32 |             |      |
| Temperature, Water (C)     | 14.94   | deg C                        |        |      | 1  |          | 09/25/19 12:32 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 33.3    | mg/L                         | 2.0    | 0.50 | 1  |          | 10/03/19 16:47 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 213     | mg/L                         | 23.5   | 7.0  | 1  |          | 10/07/19 13:36 |             |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-27B**      **Lab ID: 40196011018**      Collected: 09/25/19 12:36      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>52.5J</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:22 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>170</b>      | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:22 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>99.6</b>     | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:22 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>&lt;0.25</b> | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 18:01 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:01 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 18:01 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 18:01 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 18:01 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 18:01 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:01 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 18:01 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 18:01 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 18:01 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:01 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:01 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:01 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 18:01 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 18:01 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 18:01 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 18:01 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 18:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:01 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 18:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:01 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 18:01 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:01 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:01 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 18:01 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:01 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:01 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 18:01 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 18:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 18:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 18:01 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 18:01 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 18:01 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 18:01 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 18:01 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 18:01 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-27B**      **Lab ID: 40196011018**      Collected: 09/25/19 12:36      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 18:01 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 18:01 | 1634-04-4   |      |
| Naphthalene  | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 18:01 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 18:01 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 18:01 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 18:01 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 18:01 | 79-34-5     |      |
| Tetrachloroethene                                    | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 18:01 | 127-18-4    |      |
| Tetrahydrofuran                                      | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 18:01 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 18:01 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 18:01 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 18:01 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 18:01 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 18:01 | 79-00-5     |      |
| Trichloroethene                                      | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 18:01 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 18:01 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 18:01 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 18:01 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 18:01 | 108-67-8    |      |
| Vinyl chloride                                       | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 18:01 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 18:01 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 18:01 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 97      | %          | 70-130 |      | 1  |          | 09/30/19 18:01 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 100     | %          | 70-130 |      | 1  |          | 09/30/19 18:01 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 99      | %          | 70-130 |      | 1  |          | 09/30/19 18:01 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 8.12    | Std. Units |        |      | 1  |          | 09/25/19 12:36 |             |      |
| Field Specific Conductance                           | 225     | umhos/cm   |        |      | 1  |          | 09/25/19 12:36 |             |      |
| Oxygen, Dissolved                                    | 0       | mg/L       |        |      | 1  |          | 09/25/19 12:36 | 7782-44-7   |      |
| REDOX  | -142    | mV         |        |      | 1  |          | 09/25/19 12:36 |             |      |
| Turbidity  | 3.8     | NTU        |        |      | 1  |          | 09/25/19 12:36 |             |      |
| Temperature, Water (C)                               | 9.76    | deg C      |        |      | 1  |          | 09/25/19 12:36 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 5.5     | mg/L       | 2.0    | 0.50 | 1  |          | 10/03/19 17:01 | 16887-00-6  | B    |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 77.1    | mg/L       | 23.5   | 7.0  | 1  |          | 10/07/19 13:36 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-21A**      **Lab ID: 40196011019**      Collected: 09/25/19 13:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>1180</b>     | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 00:25 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>53600</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:25 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1050</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:25 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>805</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:25 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>4.2</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 18:21 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:21 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 18:21 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 18:21 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 18:21 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 18:21 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:21 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 18:21 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 18:21 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 18:21 | 56-23-5    |      |
| Chlorobenzene                      | <b>6.7</b>      | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:21 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:21 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:21 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 18:21 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 18:21 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 18:21 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 18:21 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 18:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:21 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 18:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>1.9J</b>     | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:21 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 18:21 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:21 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:21 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 18:21 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:21 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:21 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 18:21 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 18:21 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 18:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 18:21 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 18:21 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 18:21 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 18:21 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>0.60J</b>    | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 18:21 | 98-82-8    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-21A**      **Lab ID: 40196011019**      Collected: 09/25/19 13:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 18:21 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 18:21 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 18:21 | 1634-04-4   |      |
| Naphthalene                | 8.2     | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 18:21 | 91-20-3     |      |
| n-Propylbenzene            | 0.93J   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 18:21 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 18:21 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 18:21 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 18:21 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 18:21 | 127-18-4    |      |
| Tetrahydrofuran            | 208     | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 18:21 | 109-99-9    |      |
| Toluene                    | 0.65J   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 18:21 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 18:21 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 18:21 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 18:21 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 18:21 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 18:21 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 18:21 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 18:21 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | 3.5     | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 18:21 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | 1.8J    | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 18:21 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 18:21 | 75-01-4     |      |
| m&p-Xylene                 | 6.8     | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 18:21 | 179601-23-1 |      |
| o-Xylene                   | 1.7     | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 18:21 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 102     | %                            | 70-130 |      | 1  |          | 09/30/19 18:21 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 97      | %                            | 70-130 |      | 1  |          | 09/30/19 18:21 | 1868-53-7   |      |
| Toluene-d8 (S)             | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 18:21 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 6.45    | Std. Units                   |        |      | 1  |          | 09/25/19 13:44 |             |      |
| Field Specific Conductance | 3710    | umhos/cm                     |        |      | 1  |          | 09/25/19 13:44 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 13:44 | 7782-44-7   |      |
| REDOX                      | -113    | mV                           |        |      | 1  |          | 09/25/19 13:44 |             |      |
| Turbidity                  | 62      | NTU                          |        |      | 1  |          | 09/25/19 13:44 |             |      |
| Temperature, Water (C)     | 16.22   | deg C                        |        |      | 1  |          | 09/25/19 13:44 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 46.3    | mg/L                         | 20.0   | 5.0  | 10 |          | 10/03/19 17:15 | 16887-00-6  | B    |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 1710    | mg/L                         | 235    | 70.4 | 10 |          | 10/07/19 13:37 |             |      |
| <b>350.1 Ammonia</b>       |         | Analytical Method: EPA 350.1 |        |      |    |          |                |             |      |
| Nitrogen, Ammonia          | 224     | mg/L                         | 10.0   | 5.0  | 20 |          | 10/07/19 14:12 | 7664-41-7   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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**Sample: MW-21A**      **Lab ID: 40196011019**      Collected: 09/25/19 13:44      Received: 09/26/19 09:40      Matrix: Water

| Parameters  | Results    | Units | LOQ  | LOD | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|------------|-------|------|-----|----|----------------|----------------|-----------|------|
| <b>351.2 Total Kjeldahl Nitrogen</b>                          |            |       |      |     |    |                |                |           |      |
| Analytical Method: EPA 351.2    Preparation Method: EPA 351.2 |            |       |      |     |    |                |                |           |      |
| Nitrogen, Kjeldahl, Total                                     | <b>212</b> | mg/L  | 14.6 | 4.4 | 1  | 10/03/19 11:37 | 10/03/19 17:16 | 7727-37-9 |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-2A**      **Lab ID: 40196011020**      Collected: 09/25/19 14:06      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>1320</b>     | ug/L                        | 40.0 | 9.7  | 1  |          | 10/02/19 00:32 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>36800</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:32 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1060</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:32 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>890</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:32 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>17.7</b>     | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 18:41 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:41 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 18:41 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 18:41 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 18:41 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 18:41 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:41 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 18:41 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 18:41 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 18:41 | 56-23-5    |      |
| Chlorobenzene                      | <b>0.76J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:41 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:41 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 18:41 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 18:41 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 18:41 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 18:41 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 18:41 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 18:41 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:41 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:41 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 18:41 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 18:41 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 18:41 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 18:41 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:41 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:41 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 18:41 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 18:41 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 18:41 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 18:41 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 18:41 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 18:41 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 18:41 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 18:41 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 18:41 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 18:41 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 18:41 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 18:41 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 18:41 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

**Sample: MW-2A**      **Lab ID: 40196011020**      Collected: 09/25/19 14:06      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>            |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene         | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 09/30/19 18:41 | 99-87-6     |      |
| Methylene Chloride         | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 09/30/19 18:41 | 75-09-2     |      |
| Methyl-tert-butyl ether    | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 09/30/19 18:41 | 1634-04-4   |      |
| Naphthalene                | 3.9J    | ug/L                         | 5.0    | 1.2  | 1  |          | 09/30/19 18:41 | 91-20-3     |      |
| n-Propylbenzene            | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 09/30/19 18:41 | 103-65-1    |      |
| Styrene                    | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 09/30/19 18:41 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane  | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 09/30/19 18:41 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane  | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 09/30/19 18:41 | 79-34-5     |      |
| Tetrachloroethene          | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 09/30/19 18:41 | 127-18-4    |      |
| Tetrahydrofuran            | 157     | ug/L                         | 20.0   | 2.3  | 1  |          | 09/30/19 18:41 | 109-99-9    |      |
| Toluene                    | 0.35J   | ug/L                         | 5.0    | 0.17 | 1  |          | 09/30/19 18:41 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene     | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 09/30/19 18:41 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene     | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 09/30/19 18:41 | 120-82-1    |      |
| 1,1,1-Trichloroethane      | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 09/30/19 18:41 | 71-55-6     |      |
| 1,1,2-Trichloroethane      | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 09/30/19 18:41 | 79-00-5     |      |
| Trichloroethene            | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 18:41 | 79-01-6     |      |
| Trichlorofluoromethane     | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 09/30/19 18:41 | 75-69-4     |      |
| 1,2,3-Trichloropropane     | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 09/30/19 18:41 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene     | 1.4J    | ug/L                         | 2.8    | 0.84 | 1  |          | 09/30/19 18:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene     | 1.0J    | ug/L                         | 2.9    | 0.87 | 1  |          | 09/30/19 18:41 | 108-67-8    |      |
| Vinyl chloride             | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 09/30/19 18:41 | 75-01-4     |      |
| m&p-Xylene                 | 2.1     | ug/L                         | 2.0    | 0.47 | 1  |          | 09/30/19 18:41 | 179601-23-1 |      |
| o-Xylene                   | 0.51J   | ug/L                         | 1.0    | 0.26 | 1  |          | 09/30/19 18:41 | 95-47-6     |      |
| <b>Surrogates</b>          |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)   | 102     | %                            | 70-130 |      | 1  |          | 09/30/19 18:41 | 460-00-4    |      |
| Dibromofluoromethane (S)   | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 18:41 | 1868-53-7   | HS   |
| Toluene-d8 (S)             | 100     | %                            | 70-130 |      | 1  |          | 09/30/19 18:41 | 2037-26-5   |      |
| <b>Field Data</b>          |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                   | 6.48    | Std. Units                   |        |      | 1  |          | 09/25/19 14:06 |             |      |
| Field Specific Conductance | 3250    | umhos/cm                     |        |      | 1  |          | 09/25/19 14:06 |             |      |
| Oxygen, Dissolved          | 0       | mg/L                         |        |      | 1  |          | 09/25/19 14:06 | 7782-44-7   |      |
| REDOX                      | -82     | mV                           |        |      | 1  |          | 09/25/19 14:06 |             |      |
| Turbidity                  | 47      | NTU                          |        |      | 1  |          | 09/25/19 14:06 |             |      |
| Temperature, Water (C)     | 12.83   | deg C                        |        |      | 1  |          | 09/25/19 14:06 |             |      |
| <b>300.0 IC Anions</b>     |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                   | 57.0    | mg/L                         | 20.0   | 5.0  | 10 |          | 10/03/19 17:29 | 16887-00-6  | B    |
| <b>310.2 Alkalinity</b>    |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3 | 1660    | mg/L                         | 235    | 70.4 | 10 |          | 10/07/19 13:37 |             |      |
| <b>350.1 Ammonia</b>       |         | Analytical Method: EPA 350.1 |        |      |    |          |                |             |      |
| Nitrogen, Ammonia          | 198     | mg/L                         | 10.0   | 5.0  | 20 |          | 10/07/19 14:13 | 7664-41-7   |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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**Sample: MW-2A**      **Lab ID: 40196011020**    Collected: 09/25/19 14:06    Received: 09/26/19 09:40    Matrix: Water

| Parameters  | Results    | Units | LOQ | LOD | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|------------|-------|-----|-----|----|----------------|----------------|-----------|------|
| <b>351.2 Total Kjeldahl Nitrogen</b>                          |            |       |     |     |    |                |                |           |      |
| Analytical Method: EPA 351.2    Preparation Method: EPA 351.2 |            |       |     |     |    |                |                |           |      |
| Nitrogen, Kjeldahl, Total                                     | <b>192</b> | mg/L  | 7.3 | 2.2 | 1  | 10/03/19 11:37 | 10/03/19 17:17 | 7727-37-9 |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-2B**      **Lab ID: 40196011021**      Collected: 09/25/19 14:30      Received: 09/26/19 09:40      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>24600</b>    | ug/L                        | 100  | 29.6 | 1  |          | 10/02/19 00:35 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1200</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 10/02/19 00:35 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>208</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 10/02/19 00:35 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.36J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 09/30/19 22:24 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 22:24 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 09/30/19 22:24 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 09/30/19 22:24 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 09/30/19 22:24 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 09/30/19 22:24 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 22:24 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 09/30/19 22:24 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 09/30/19 22:24 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 09/30/19 22:24 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 22:24 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 22:24 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 09/30/19 22:24 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 09/30/19 22:24 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 09/30/19 22:24 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 09/30/19 22:24 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 09/30/19 22:24 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 09/30/19 22:24 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 22:24 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 22:24 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 09/30/19 22:24 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 09/30/19 22:24 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 09/30/19 22:24 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 09/30/19 22:24 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 22:24 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 22:24 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 09/30/19 22:24 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 09/30/19 22:24 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 09/30/19 22:24 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 09/30/19 22:24 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 09/30/19 22:24 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 09/30/19 22:24 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 09/30/19 22:24 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 09/30/19 22:24 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 09/30/19 22:24 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 09/30/19 22:24 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 09/30/19 22:24 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 09/30/19 22:24 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 09/30/19 22:24 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 09/30/19 22:24 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: MW-2B**      **Lab ID: 40196011021**      Collected: 09/25/19 14:30      Received: 09/26/19 09:40      Matrix: Water

| Parameters   | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260          |         |            |        |      |    |          |                |             |      |
| Methylene Chloride                                   | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 09/30/19 22:24 | 75-09-2     |      |
| Methyl-tert-butyl ether                              | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 09/30/19 22:24 | 1634-04-4   |      |
| Naphthalene  | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 09/30/19 22:24 | 91-20-3     |      |
| n-Propylbenzene                                      | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 09/30/19 22:24 | 103-65-1    |      |
| Styrene  | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 09/30/19 22:24 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                            | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 09/30/19 22:24 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                            | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 09/30/19 22:24 | 79-34-5     |      |
| Tetrachloroethene                                    | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 09/30/19 22:24 | 127-18-4    |      |
| Tetrahydrofuran                                      | 9.3J    | ug/L       | 20.0   | 2.3  | 1  |          | 09/30/19 22:24 | 109-99-9    |      |
| Toluene  | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 09/30/19 22:24 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                               | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 09/30/19 22:24 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                               | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 09/30/19 22:24 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 09/30/19 22:24 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 09/30/19 22:24 | 79-00-5     |      |
| Trichloroethene                                      | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 22:24 | 79-01-6     |      |
| Trichlorofluoromethane                               | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 09/30/19 22:24 | 75-69-4     |      |
| 1,2,3-Trichloropropane                               | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 09/30/19 22:24 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                               | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 09/30/19 22:24 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                               | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 09/30/19 22:24 | 108-67-8    |      |
| Vinyl chloride                                       | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 09/30/19 22:24 | 75-01-4     |      |
| m&p-Xylene   | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 09/30/19 22:24 | 179601-23-1 |      |
| o-Xylene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 09/30/19 22:24 | 95-47-6     |      |
| <b>Surrogates</b>                                    |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                             | 95      | %          | 70-130 |      | 1  |          | 09/30/19 22:24 | 460-00-4    |      |
| Dibromofluoromethane (S)                             | 111     | %          | 70-130 |      | 1  |          | 09/30/19 22:24 | 1868-53-7   |      |
| Toluene-d8 (S)                                       | 96      | %          | 70-130 |      | 1  |          | 09/30/19 22:24 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                 |         |            |        |      |    |          |                |             |      |
| Field pH   | 7.11    | Std. Units |        |      | 1  |          | 09/25/19 14:30 |             |      |
| Field Specific Conductance                           | 626     | umhos/cm   |        |      | 1  |          | 09/25/19 14:30 |             |      |
| Oxygen, Dissolved                                    | 0       | mg/L       |        |      | 1  |          | 09/25/19 14:30 | 7782-44-7   |      |
| REDOX  | -138    | mV         |        |      | 1  |          | 09/25/19 14:30 |             |      |
| Turbidity  | 0       | NTU        |        |      | 1  |          | 09/25/19 14:30 |             |      |
| Temperature, Water (C)                               | 10.18   | deg C      |        |      | 1  |          | 09/25/19 14:30 |             |      |
| <b>300.0 IC Anions</b> Analytical Method: EPA 300.0  |         |            |        |      |    |          |                |             |      |
| Chloride   | 37.8    | mg/L       | 10.0   | 2.5  | 5  |          | 10/03/19 17:43 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2 |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                           | 209     | mg/L       | 47.0   | 14.1 | 2  |          | 10/07/19 13:38 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: TRIP BLANK**      **Lab ID: 40196011022**      Collected: 09/25/19 00:00      Received: 09/26/19 09:40      Matrix: Water

| Parameters                                  | Results | Units | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |      |      |    |          |                |            |      |
| Benzene                                     | <0.25   | ug/L  | 1.0  | 0.25 | 1  |          | 10/01/19 21:27 | 71-43-2    |      |
| Bromobenzene                                | <0.24   | ug/L  | 1.0  | 0.24 | 1  |          | 10/01/19 21:27 | 108-86-1   |      |
| Bromochloromethane                          | <0.36   | ug/L  | 5.0  | 0.36 | 1  |          | 10/01/19 21:27 | 74-97-5    |      |
| Bromodichloromethane                        | <0.36   | ug/L  | 1.2  | 0.36 | 1  |          | 10/01/19 21:27 | 75-27-4    |      |
| Bromoform                                   | <4.0    | ug/L  | 13.2 | 4.0  | 1  |          | 10/01/19 21:27 | 75-25-2    |      |
| Bromomethane                                | <0.97   | ug/L  | 5.0  | 0.97 | 1  |          | 10/01/19 21:27 | 74-83-9    |      |
| n-Butylbenzene                              | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 10/01/19 21:27 | 104-51-8   |      |
| sec-Butylbenzene                            | <0.85   | ug/L  | 5.0  | 0.85 | 1  |          | 10/01/19 21:27 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.30   | ug/L  | 1.0  | 0.30 | 1  |          | 10/01/19 21:27 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.17   | ug/L  | 1.0  | 0.17 | 1  |          | 10/01/19 21:27 | 56-23-5    |      |
| Chlorobenzene                               | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 10/01/19 21:27 | 108-90-7   |      |
| Chloroethane                                | <1.3    | ug/L  | 5.0  | 1.3  | 1  |          | 10/01/19 21:27 | 75-00-3    |      |
| Chloroform                                  | <1.3    | ug/L  | 5.0  | 1.3  | 1  |          | 10/01/19 21:27 | 67-66-3    |      |
| Chloromethane                               | <2.2    | ug/L  | 7.3  | 2.2  | 1  |          | 10/01/19 21:27 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.93   | ug/L  | 5.0  | 0.93 | 1  |          | 10/01/19 21:27 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.76   | ug/L  | 2.5  | 0.76 | 1  |          | 10/01/19 21:27 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <1.8    | ug/L  | 5.9  | 1.8  | 1  |          | 10/01/19 21:27 | 96-12-8    |      |
| Dibromochloromethane                        | <2.6    | ug/L  | 8.7  | 2.6  | 1  |          | 10/01/19 21:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.83   | ug/L  | 2.8  | 0.83 | 1  |          | 10/01/19 21:27 | 106-93-4   |      |
| Dibromomethane                              | <0.94   | ug/L  | 3.1  | 0.94 | 1  |          | 10/01/19 21:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 10/01/19 21:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.63   | ug/L  | 2.1  | 0.63 | 1  |          | 10/01/19 21:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.94   | ug/L  | 3.1  | 0.94 | 1  |          | 10/01/19 21:27 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.50   | ug/L  | 5.0  | 0.50 | 1  |          | 10/01/19 21:27 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 10/01/19 21:27 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 10/01/19 21:27 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.24   | ug/L  | 1.0  | 0.24 | 1  |          | 10/01/19 21:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 10/01/19 21:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <1.1    | ug/L  | 3.6  | 1.1  | 1  |          | 10/01/19 21:27 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 10/01/19 21:27 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.83   | ug/L  | 2.8  | 0.83 | 1  |          | 10/01/19 21:27 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <2.3    | ug/L  | 7.6  | 2.3  | 1  |          | 10/01/19 21:27 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.54   | ug/L  | 1.8  | 0.54 | 1  |          | 10/01/19 21:27 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <3.6    | ug/L  | 12.1 | 3.6  | 1  |          | 10/01/19 21:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <4.4    | ug/L  | 14.6 | 4.4  | 1  |          | 10/01/19 21:27 | 10061-02-6 |      |
| Diisopropyl ether                           | <1.9    | ug/L  | 6.3  | 1.9  | 1  |          | 10/01/19 21:27 | 108-20-3   |      |
| Ethylbenzene                                | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 10/01/19 21:27 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <1.2    | ug/L  | 5.0  | 1.2  | 1  |          | 10/01/19 21:27 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.39   | ug/L  | 5.0  | 0.39 | 1  |          | 10/01/19 21:27 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.80   | ug/L  | 2.7  | 0.80 | 1  |          | 10/01/19 21:27 | 99-87-6    |      |
| Methylene Chloride                          | <0.58   | ug/L  | 5.0  | 0.58 | 1  |          | 10/01/19 21:27 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <1.2    | ug/L  | 4.2  | 1.2  | 1  |          | 10/01/19 21:27 | 1634-04-4  |      |
| Naphthalene                                 | <1.2    | ug/L  | 5.0  | 1.2  | 1  |          | 10/01/19 21:27 | 91-20-3    |      |
| n-Propylbenzene                             | <0.81   | ug/L  | 5.0  | 0.81 | 1  |          | 10/01/19 21:27 | 103-65-1   |      |
| Styrene                                     | <0.47   | ug/L  | 1.6  | 0.47 | 1  |          | 10/01/19 21:27 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 10/01/19 21:27 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

**Sample: TRIP BLANK**      **Lab ID: 40196011022**      Collected: 09/25/19 00:00      Received: 09/26/19 09:40      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane                   | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 10/01/19 21:27 | 79-34-5     |      |
| Tetrachloroethene                           | <0.33   | ug/L  | 1.1    | 0.33 | 1  |          | 10/01/19 21:27 | 127-18-4    |      |
| Tetrahydrofuran                             | <2.3    | ug/L  | 20.0   | 2.3  | 1  |          | 10/01/19 21:27 | 109-99-9    |      |
| Toluene                                     | <0.17   | ug/L  | 5.0    | 0.17 | 1  |          | 10/01/19 21:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <0.63   | ug/L  | 5.0    | 0.63 | 1  |          | 10/01/19 21:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <0.95   | ug/L  | 5.0    | 0.95 | 1  |          | 10/01/19 21:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.24   | ug/L  | 1.0    | 0.24 | 1  |          | 10/01/19 21:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane                       | <0.55   | ug/L  | 5.0    | 0.55 | 1  |          | 10/01/19 21:27 | 79-00-5     |      |
| Trichloroethene                             | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 10/01/19 21:27 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.21   | ug/L  | 1.0    | 0.21 | 1  |          | 10/01/19 21:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.59   | ug/L  | 5.0    | 0.59 | 1  |          | 10/01/19 21:27 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.84   | ug/L  | 2.8    | 0.84 | 1  |          | 10/01/19 21:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.87   | ug/L  | 2.9    | 0.87 | 1  |          | 10/01/19 21:27 | 108-67-8    |      |
| Vinyl chloride                              | <0.17   | ug/L  | 1.0    | 0.17 | 1  |          | 10/01/19 21:27 | 75-01-4     |      |
| m&p-Xylene                                  | <0.47   | ug/L  | 2.0    | 0.47 | 1  |          | 10/01/19 21:27 | 179601-23-1 |      |
| o-Xylene                                    | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 10/01/19 21:27 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 92      | %     | 70-130 |      | 1  |          | 10/01/19 21:27 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 101     | %     | 70-130 |      | 1  |          | 10/01/19 21:27 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 100     | %     | 70-130 |      | 1  |          | 10/01/19 21:27 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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**Sample: MW-19B**      **Lab ID: 40196011023**      Collected: 09/24/19 00:00      Received: 09/26/19 09:40      Matrix: Water

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| Parameters                 | Results     | Units              | LOQ | LOD | DF | Prepared | Analyzed       | CAS No.   | Qual |
|----------------------------|-------------|--------------------|-----|-----|----|----------|----------------|-----------|------|
| <b>Field Data</b>          |             | Analytical Method: |     |     |    |          |                |           |      |
| Field pH                   | <b>6.82</b> | Std. Units         |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Field Specific Conductance | <b>570</b>  | umhos/cm           |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Oxygen, Dissolved          | <b>1.92</b> | mg/L               |     |     | 1  |          | 09/24/19 00:00 | 7782-44-7 |      |
| REDOX                      | <b>-114</b> | mV                 |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Turbidity                  | <b>27</b>   | NTU                |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Temperature, Water (C)     | <b>17.9</b> | deg C              |     |     | 1  |          | 09/24/19 00:00 |           |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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**Sample: MW-19C**      **Lab ID: 40196011024**      Collected: 09/24/19 00:00      Received: 09/26/19 09:40      Matrix: Water

| Parameters                 | Results      | Units              | LOQ | LOD | DF | Prepared | Analyzed       | CAS No.   | Qual |
|----------------------------|--------------|--------------------|-----|-----|----|----------|----------------|-----------|------|
| <b>Field Data</b>          |              | Analytical Method: |     |     |    |          |                |           |      |
| Field pH                   | <b>5.92</b>  | Std. Units         |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Field Specific Conductance | <b>425</b>   | umhos/cm           |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Oxygen, Dissolved          | <b>1.8</b>   | mg/L               |     |     | 1  |          | 09/24/19 00:00 | 7782-44-7 |      |
| REDOX                      | <b>-111</b>  | mV                 |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Turbidity                  | <b>32.8</b>  | NTU                |     |     | 1  |          | 09/24/19 00:00 |           |      |
| Temperature, Water (C)     | <b>18.58</b> | deg C              |     |     | 1  |          | 09/24/19 00:00 |           |      |

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## ANALYTICAL RESULTS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

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**Sample: MW-28B**      **Lab ID: 40196011025**      Collected: 09/25/19 00:00      Received: 09/26/19 09:40      Matrix: Water

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| Parameters                 | Results            | Units      | LOQ | LOD | DF | Prepared | Analyzed       | CAS No.   | Qual |
|----------------------------|--------------------|------------|-----|-----|----|----------|----------------|-----------|------|
| <b>Field Data</b>          | Analytical Method: |            |     |     |    |          |                |           |      |
| Field pH                   | <b>6.03</b>        | Std. Units |     |     | 1  |          | 09/25/19 00:00 |           |      |
| Field Specific Conductance | <b>297</b>         | umhos/cm   |     |     | 1  |          | 09/25/19 00:00 |           |      |
| Oxygen, Dissolved          | <b>0</b>           | mg/L       |     |     | 1  |          | 09/25/19 00:00 | 7782-44-7 |      |
| REDOX                      | <b>-57</b>         | mV         |     |     | 1  |          | 09/25/19 00:00 |           |      |
| Temperature, Water (C)     | <b>15.86</b>       | deg C      |     |     | 1  |          | 09/25/19 00:00 |           |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335944 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015

METHOD BLANK: 1950628 Matrix: Water  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015

| Parameter                          | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------------------|-------|--------------|-----------------|----------------|------------|
| Boron, Dissolved                   | ug/L  | <9.7         | 40.0            | 10/02/19 01:17 |            |
| Iron, Dissolved                    | ug/L  | <29.6        | 100             | 10/02/19 01:17 |            |
| Manganese, Dissolved               | ug/L  | <1.1         | 5.0             | 10/02/19 01:17 |            |
| Total Hardness by 2340B, Dissolved | mg/L  | <0.15        | 2.0             | 10/02/19 01:17 |            |

LABORATORY CONTROL SAMPLE: 1950629

| Parameter                          | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Boron, Dissolved                   | ug/L  | 500         | 522        | 104       | 80-120       |            |
| Iron, Dissolved                    | ug/L  | 5000        | 4950       | 99        | 80-120       |            |
| Manganese, Dissolved               | ug/L  | 500         | 459        | 92        | 80-120       |            |
| Total Hardness by 2340B, Dissolved | mg/L  |             | 33.2       |           |              |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950630 1950631

| Parameter                          | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
|                                    |       | 40196011011 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      |
| Boron, Dissolved                   | ug/L  | 230                | 500         | 500         | 775       | 784      | 109       | 111          | 75-125 | 1       | 20   |
| Iron, Dissolved                    | ug/L  | 28400              | 5000        | 5000        | 32600     | 33100    | 85        | 95           | 75-125 | 1       | 20   |
| Manganese, Dissolved               | ug/L  | 2160               | 500         | 500         | 2570      | 2580     | 83        | 84           | 75-125 | 0       | 20   |
| Total Hardness by 2340B, Dissolved | mg/L  | 252                |             |             | 277       | 283      |           |              |        | 2       | 20   |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335948 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

METHOD BLANK: 1950632 Matrix: Water  
Associated Lab Samples: 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

| Parameter                          | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------------------|-------|--------------|-----------------|----------------|------------|
| Boron, Dissolved                   | ug/L  | <9.7         | 40.0            | 10/02/19 00:08 |            |
| Iron, Dissolved                    | ug/L  | <29.6        | 100             | 10/02/19 00:08 |            |
| Manganese, Dissolved               | ug/L  | <1.1         | 5.0             | 10/02/19 00:08 |            |
| Total Hardness by 2340B, Dissolved | mg/L  | 0.27J        | 2.0             | 10/02/19 00:08 |            |

LABORATORY CONTROL SAMPLE: 1950633

| Parameter                          | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Boron, Dissolved                   | ug/L  | 500         | 528        | 106       | 80-120       |            |
| Iron, Dissolved                    | ug/L  | 5000        | 4930       | 99        | 80-120       |            |
| Manganese, Dissolved               | ug/L  | 500         | 450        | 90        | 80-120       |            |
| Total Hardness by 2340B, Dissolved | mg/L  |             | 33.4       |           |              |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950634 1950635

| Parameter                          | Units | MS                 |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | RPD | Max RPD | Qual |
|------------------------------------|-------|--------------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|-----|---------|------|
|                                    |       | 40196011016 Result | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |     |         |      |
| Boron, Dissolved                   | ug/L  | 50.9               | 500         | 500         | 583    | 584    | 106   | 107   | 75-125 | 0            | 20  |         |      |
| Iron, Dissolved                    | ug/L  | 1440               | 5000        | 5000        | 6350   | 6340   | 98    | 98    | 75-125 | 0            | 20  |         |      |
| Manganese, Dissolved               | ug/L  | 2500               | 500         | 500         | 2880   | 2900   | 76    | 79    | 75-125 | 1            | 20  |         |      |
| Total Hardness by 2340B, Dissolved | mg/L  | 256                |             |             | 280    | 279    |       |       |        | 0            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335603 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020

METHOD BLANK: 1948245 Matrix: Water  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020

| Parameter                   | Units | Reporting    |       | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-------|----------------|------------|
|                             |       | Blank Result | Limit |                |            |
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.27        | 1.0   | 09/30/19 08:19 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.24        | 1.0   | 09/30/19 08:19 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28        | 1.0   | 09/30/19 08:19 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.55        | 5.0   | 09/30/19 08:19 |            |
| 1,1-Dichloroethane          | ug/L  | <0.27        | 1.0   | 09/30/19 08:19 |            |
| 1,1-Dichloroethene          | ug/L  | <0.24        | 1.0   | 09/30/19 08:19 |            |
| 1,1-Dichloropropene         | ug/L  | <0.54        | 1.8   | 09/30/19 08:19 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.63        | 5.0   | 09/30/19 08:19 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.59        | 5.0   | 09/30/19 08:19 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95        | 5.0   | 09/30/19 08:19 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.84        | 2.8   | 09/30/19 08:19 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8         | 5.9   | 09/30/19 08:19 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83        | 2.8   | 09/30/19 08:19 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.71        | 2.4   | 09/30/19 08:19 |            |
| 1,2-Dichloroethane          | ug/L  | <0.28        | 1.0   | 09/30/19 08:19 |            |
| 1,2-Dichloropropane         | ug/L  | <0.28        | 1.0   | 09/30/19 08:19 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.87        | 2.9   | 09/30/19 08:19 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.63        | 2.1   | 09/30/19 08:19 |            |
| 1,3-Dichloropropane         | ug/L  | <0.83        | 2.8   | 09/30/19 08:19 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.94        | 3.1   | 09/30/19 08:19 |            |
| 2,2-Dichloropropane         | ug/L  | <2.3         | 7.6   | 09/30/19 08:19 |            |
| 2-Chlorotoluene             | ug/L  | <0.93        | 5.0   | 09/30/19 08:19 |            |
| 4-Chlorotoluene             | ug/L  | <0.76        | 2.5   | 09/30/19 08:19 |            |
| Benzene                     | ug/L  | <0.25        | 1.0   | 09/30/19 08:19 |            |
| Bromobenzene                | ug/L  | <0.24        | 1.0   | 09/30/19 08:19 |            |
| Bromochloromethane          | ug/L  | <0.36        | 5.0   | 09/30/19 08:19 |            |
| Bromodichloromethane        | ug/L  | <0.36        | 1.2   | 09/30/19 08:19 |            |
| Bromoform                   | ug/L  | <4.0         | 13.2  | 09/30/19 08:19 |            |
| Bromomethane                | ug/L  | <0.97        | 5.0   | 09/30/19 08:19 |            |
| Carbon tetrachloride        | ug/L  | <0.17        | 1.0   | 09/30/19 08:19 |            |
| Chlorobenzene               | ug/L  | <0.71        | 2.4   | 09/30/19 08:19 |            |
| Chloroethane                | ug/L  | <1.3         | 5.0   | 09/30/19 08:19 |            |
| Chloroform                  | ug/L  | <1.3         | 5.0   | 09/30/19 08:19 |            |
| Chloromethane               | ug/L  | <2.2         | 7.3   | 09/30/19 08:19 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.27        | 1.0   | 09/30/19 08:19 |            |
| cis-1,3-Dichloropropene     | ug/L  | <3.6         | 12.1  | 09/30/19 08:19 |            |
| Dibromochloromethane        | ug/L  | <2.6         | 8.7   | 09/30/19 08:19 |            |
| Dibromomethane              | ug/L  | <0.94        | 3.1   | 09/30/19 08:19 |            |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

METHOD BLANK: 1948245 Matrix: Water  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane   | ug/L  | <0.50        | 5.0             | 09/30/19 08:19 |            |
| Diisopropyl ether         | ug/L  | <1.9         | 6.3             | 09/30/19 08:19 |            |
| Ethylbenzene              | ug/L  | <0.22        | 1.0             | 09/30/19 08:19 |            |
| Hexachloro-1,3-butadiene  | ug/L  | <1.2         | 5.0             | 09/30/19 08:19 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.39        | 5.0             | 09/30/19 08:19 |            |
| m&p-Xylene                | ug/L  | <0.47        | 2.0             | 09/30/19 08:19 |            |
| Methyl-tert-butyl ether   | ug/L  | <1.2         | 4.2             | 09/30/19 08:19 |            |
| Methylene Chloride        | ug/L  | <0.58        | 5.0             | 09/30/19 08:19 |            |
| n-Butylbenzene            | ug/L  | <0.71        | 2.4             | 09/30/19 08:19 |            |
| n-Propylbenzene           | ug/L  | <0.81        | 5.0             | 09/30/19 08:19 |            |
| Naphthalene               | ug/L  | <1.2         | 5.0             | 09/30/19 08:19 |            |
| o-Xylene                  | ug/L  | <0.26        | 1.0             | 09/30/19 08:19 |            |
| p-Isopropyltoluene        | ug/L  | <0.80        | 2.7             | 09/30/19 08:19 |            |
| sec-Butylbenzene          | ug/L  | <0.85        | 5.0             | 09/30/19 08:19 |            |
| Styrene                   | ug/L  | <0.47        | 1.6             | 09/30/19 08:19 |            |
| tert-Butylbenzene         | ug/L  | <0.30        | 1.0             | 09/30/19 08:19 |            |
| Tetrachloroethane         | ug/L  | <0.33        | 1.1             | 09/30/19 08:19 |            |
| Tetrahydrofuran           | ug/L  | <2.3         | 20.0            | 09/30/19 08:19 |            |
| Toluene                   | ug/L  | <0.17        | 5.0             | 09/30/19 08:19 |            |
| trans-1,2-Dichloroethane  | ug/L  | <1.1         | 3.6             | 09/30/19 08:19 |            |
| trans-1,3-Dichloropropene | ug/L  | <4.4         | 14.6            | 09/30/19 08:19 |            |
| Trichloroethene           | ug/L  | <0.26        | 1.0             | 09/30/19 08:19 |            |
| Trichlorofluoromethane    | ug/L  | <0.21        | 1.0             | 09/30/19 08:19 |            |
| Vinyl chloride            | ug/L  | <0.17        | 1.0             | 09/30/19 08:19 |            |
| 4-Bromofluorobenzene (S)  | %     | 96           | 70-130          | 09/30/19 08:19 |            |
| Dibromofluoromethane (S)  | %     | 95           | 70-130          | 09/30/19 08:19 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          | 09/30/19 08:19 |            |

LABORATORY CONTROL SAMPLE: 1948246

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 54.8       | 110       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 59.9       | 120       | 73-150       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 45.8       | 92        | 73-138       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 52.6       | 105       | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 54.1       | 108       | 64-129       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 55.3       | 111       | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 52.1       | 104       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 53.5       | 107       | 75-140       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 56.2       | 112       | 73-135       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

LABORATORY CONTROL SAMPLE: 1948246

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,3-Dichlorobenzene       | ug/L  | 50          | 53.8       | 108       | 70-130       |            |
| 1,4-Dichlorobenzene       | ug/L  | 50          | 52.0       | 104       | 70-130       |            |
| Benzene                   | ug/L  | 50          | 54.4       | 109       | 70-130       |            |
| Bromodichloromethane      | ug/L  | 50          | 53.5       | 107       | 70-130       |            |
| Bromoform                 | ug/L  | 50          | 45.4       | 91        | 68-129       |            |
| Bromomethane              | ug/L  | 50          | 26.2       | 52        | 18-159       |            |
| Carbon tetrachloride      | ug/L  | 50          | 53.2       | 106       | 70-130       |            |
| Chlorobenzene             | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| Chloroethane              | ug/L  | 50          | 37.2       | 74        | 53-147       |            |
| Chloroform                | ug/L  | 50          | 53.3       | 107       | 74-136       |            |
| Chloromethane             | ug/L  | 50          | 32.8       | 66        | 29-115       |            |
| cis-1,2-Dichloroethene    | ug/L  | 50          | 51.3       | 103       | 70-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 50          | 50.3       | 101       | 70-130       |            |
| Dibromochloromethane      | ug/L  | 50          | 48.8       | 98        | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 50          | 31.2       | 62        | 10-130       |            |
| Ethylbenzene              | ug/L  | 50          | 54.3       | 109       | 80-124       |            |
| Isopropylbenzene (Cumene) | ug/L  | 50          | 55.0       | 110       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 106        | 106       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 55.6       | 111       | 54-137       |            |
| Methylene Chloride        | ug/L  | 50          | 52.2       | 104       | 73-138       |            |
| o-Xylene                  | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| Styrene                   | ug/L  | 50          | 49.5       | 99        | 70-130       |            |
| Tetrachloroethene         | ug/L  | 50          | 56.3       | 113       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 54.1       | 108       | 80-126       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 55.4       | 111       | 73-145       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| Trichloroethene           | ug/L  | 50          | 56.2       | 112       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 39.1       | 78        | 76-147       |            |
| Vinyl chloride            | ug/L  | 50          | 34.9       | 70        | 51-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 102       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 94        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 101       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1948247 1948248

| Parameter                   | Units | MS                 |             | MSD         |           | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       | 40196011011 Result | Spike Conc. | Spike Conc. | MS Result |           |            |          |           |              |     |         |      |
| 1,1,1-Trichloroethane       | ug/L  | <0.24              | 50          | 50          | 53.6      | 51.8      | 107        | 104      | 70-130    | 4            | 20  |         |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28              | 50          | 50          | 54.1      | 53.0      | 108        | 106      | 70-130    | 2            | 20  |         |      |
| 1,1,2-Trichloroethane       | ug/L  | <0.55              | 50          | 50          | 54.3      | 52.6      | 109        | 105      | 70-137    | 3            | 20  |         |      |
| 1,1-Dichloroethane          | ug/L  | <0.27              | 50          | 50          | 60.1      | 59.6      | 120        | 119      | 73-153    | 1            | 20  |         |      |
| 1,1-Dichloroethene          | ug/L  | <0.24              | 50          | 50          | 46.1      | 43.3      | 92         | 87       | 73-138    | 6            | 20  |         |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95              | 50          | 50          | 54.3      | 53.9      | 108        | 107      | 70-130    | 1            | 20  |         |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8               | 50          | 50          | 57.0      | 53.6      | 114        | 107      | 58-129    | 6            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Parameter                    | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1948247 |                      | 1948248               |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|------------------------------|-------|--|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                              |       | 40196011011<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |            |     |      |
| 1,2-Dibromoethane (EDB)      | ug/L  | <0.83  | 50                   | 50                    | 55.7 | 54.6         | 111           | 109         | 70-130       | 2               | 20         |     |      |
| 1,2-Dichlorobenzene          | ug/L  | <0.71  | 50                   | 50                    | 52.3 | 50.6         | 104           | 101         | 70-130       | 3               | 20         |     |      |
| 1,2-Dichloroethane           | ug/L  | <0.28  | 50                   | 50                    | 53.6 | 51.4         | 107           | 103         | 75-140       | 4               | 20         |     |      |
| 1,2-Dichloropropane          | ug/L  | <0.28  | 50                   | 50                    | 54.7 | 54.3         | 109           | 109         | 71-138       | 1               | 20         |     |      |
| 1,3-Dichlorobenzene          | ug/L  | <0.63  | 50                   | 50                    | 51.6 | 50.8         | 103           | 102         | 70-130       | 2               | 20         |     |      |
| 1,4-Dichlorobenzene          | ug/L  | <0.94  | 50                   | 50                    | 50.8 | 51.5         | 101           | 102         | 70-130       | 1               | 20         |     |      |
| Benzene                      | ug/L  | 1.1  | 50                   | 50                    | 56.0 | 52.8         | 110           | 103         | 70-130       | 6               | 20         |     |      |
| Bromodichloromethane         | ug/L  | <0.36  | 50                   | 50                    | 53.2 | 52.9         | 106           | 106         | 70-130       | 1               | 20         |     |      |
| Bromoform                    | ug/L  | <4.0   | 50                   | 50                    | 47.6 | 46.6         | 95            | 93          | 68-129       | 2               | 20         |     |      |
| Bromomethane                 | ug/L  | <0.97  | 50                   | 50                    | 27.4 | 27.3         | 55            | 55          | 15-170       | 0               | 20         |     |      |
| Carbon tetrachloride         | ug/L  | <0.17  | 50                   | 50                    | 52.6 | 51.5         | 105           | 103         | 70-130       | 2               | 20         |     |      |
| Chlorobenzene                | ug/L  | <0.71  | 50                   | 50                    | 56.3 | 55.4         | 111           | 110         | 70-130       | 2               | 20         |     |      |
| Chloroethane                 | ug/L  | <1.3   | 50                   | 50                    | 37.7 | 35.0         | 75            | 70          | 51-148       | 7               | 20         |     |      |
| Chloroform                   | ug/L  | <1.3   | 50                   | 50                    | 53.7 | 50.2         | 107           | 100         | 74-136       | 7               | 20         |     |      |
| Chloromethane                | ug/L  | <2.2   | 50                   | 50                    | 33.7 | 31.1         | 67            | 61          | 23-115       | 8               | 20         |     |      |
| cis-1,2-Dichloroethene       | ug/L  | <0.27  | 50                   | 50                    | 51.2 | 50.4         | 102           | 101         | 70-131       | 1               | 20         |     |      |
| cis-1,3-Dichloropropene      | ug/L  | <3.6   | 50                   | 50                    | 49.2 | 48.3         | 98            | 97          | 70-130       | 2               | 20         |     |      |
| Dibromochloromethane         | ug/L  | <2.6   | 50                   | 50                    | 50.2 | 49.9         | 100           | 100         | 70-130       | 0               | 20         |     |      |
| Dichlorodifluoromethane      | ug/L  | <0.50  | 50                   | 50                    | 30.4 | 29.3         | 61            | 59          | 10-132       | 4               | 20         |     |      |
| Ethylbenzene                 | ug/L  | <0.22  | 50                   | 50                    | 55.0 | 53.3         | 110           | 107         | 80-125       | 3               | 20         |     |      |
| Isopropylbenzene<br>(Cumene) | ug/L  | <0.39  | 50                   | 50                    | 55.4 | 54.0         | 111           | 108         | 70-130       | 3               | 20         |     |      |
| m&p-Xylene                   | ug/L  | 0.75J  | 100                  | 100                   | 109  | 108          | 108           | 107         | 70-130       | 2               | 20         |     |      |
| Methyl-tert-butyl ether      | ug/L  | <1.2   | 50                   | 50                    | 55.5 | 52.7         | 111           | 105         | 51-145       | 5               | 20         |     |      |
| Methylene Chloride           | ug/L  | <0.58  | 50                   | 50                    | 54.1 | 51.5         | 108           | 103         | 73-140       | 5               | 20         |     |      |
| o-Xylene                     | ug/L  | <0.26  | 50                   | 50                    | 54.6 | 54.3         | 109           | 109         | 70-130       | 0               | 20         |     |      |
| Styrene                      | ug/L  | <0.47  | 50                   | 50                    | 50.0 | 50.6         | 100           | 101         | 70-130       | 1               | 20         |     |      |
| Tetrachloroethene            | ug/L  | <0.33  | 50                   | 50                    | 57.7 | 56.0         | 115           | 112         | 70-130       | 3               | 20         |     |      |
| Toluene                      | ug/L  | <0.17  | 50                   | 50                    | 54.6 | 53.6         | 109           | 107         | 80-131       | 2               | 20         |     |      |
| trans-1,2-Dichloroethene     | ug/L  | <1.1   | 50                   | 50                    | 56.8 | 53.2         | 114           | 106         | 73-148       | 7               | 20         |     |      |
| trans-1,3-Dichloropropene    | ug/L  | <4.4   | 50                   | 50                    | 52.4 | 51.4         | 105           | 103         | 70-130       | 2               | 20         |     |      |
| Trichloroethene              | ug/L  | <0.26  | 50                   | 50                    | 54.5 | 53.0         | 109           | 106         | 70-130       | 3               | 20         |     |      |
| Trichlorofluoromethane       | ug/L  | <0.21  | 50                   | 50                    | 38.6 | 37.1         | 77            | 74          | 74-147       | 4               | 20         |     |      |
| Vinyl chloride               | ug/L  | 0.29J  | 50                   | 50                    | 35.1 | 34.4         | 70            | 68          | 41-129       | 2               | 20         |     |      |
| 4-Bromofluorobenzene (S)     | %     |  |                      |                       |      |              | 104           | 103         | 70-130       |                 |            |     |      |
| Dibromofluoromethane (S)     | %     |  |                      |                       |      |              | 100           | 93          | 70-130       |                 |            |     |      |
| Toluene-d8 (S)               | %     |  |                      |                       |      |              | 100           | 100         | 70-130       |                 |            |     |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335606 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40196011021

METHOD BLANK: 1948273 Matrix: Water  
Associated Lab Samples: 40196011021

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.27        | 1.0             | 09/30/19 16:47 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.24        | 1.0             | 09/30/19 16:47 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28        | 1.0             | 09/30/19 16:47 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.55        | 5.0             | 09/30/19 16:47 |            |
| 1,1-Dichloroethane          | ug/L  | <0.27        | 1.0             | 09/30/19 16:47 |            |
| 1,1-Dichloroethene          | ug/L  | <0.24        | 1.0             | 09/30/19 16:47 |            |
| 1,1-Dichloropropene         | ug/L  | <0.54        | 1.8             | 09/30/19 16:47 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.63        | 5.0             | 09/30/19 16:47 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.59        | 5.0             | 09/30/19 16:47 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95        | 5.0             | 09/30/19 16:47 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.84        | 2.8             | 09/30/19 16:47 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8         | 5.9             | 09/30/19 16:47 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83        | 2.8             | 09/30/19 16:47 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.71        | 2.4             | 09/30/19 16:47 |            |
| 1,2-Dichloroethane          | ug/L  | <0.28        | 1.0             | 09/30/19 16:47 |            |
| 1,2-Dichloropropane         | ug/L  | <0.28        | 1.0             | 09/30/19 16:47 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.87        | 2.9             | 09/30/19 16:47 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.63        | 2.1             | 09/30/19 16:47 |            |
| 1,3-Dichloropropane         | ug/L  | <0.83        | 2.8             | 09/30/19 16:47 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.94        | 3.1             | 09/30/19 16:47 |            |
| 2,2-Dichloropropane         | ug/L  | <2.3         | 7.6             | 09/30/19 16:47 |            |
| 2-Chlorotoluene             | ug/L  | <0.93        | 5.0             | 09/30/19 16:47 |            |
| 4-Chlorotoluene             | ug/L  | <0.76        | 2.5             | 09/30/19 16:47 |            |
| Benzene                     | ug/L  | <0.25        | 1.0             | 09/30/19 16:47 |            |
| Bromobenzene                | ug/L  | <0.24        | 1.0             | 09/30/19 16:47 |            |
| Bromochloromethane          | ug/L  | <0.36        | 5.0             | 09/30/19 16:47 |            |
| Bromodichloromethane        | ug/L  | <0.36        | 1.2             | 09/30/19 16:47 |            |
| Bromoform                   | ug/L  | <4.0         | 13.2            | 09/30/19 16:47 |            |
| Bromomethane                | ug/L  | <0.97        | 5.0             | 09/30/19 16:47 |            |
| Carbon tetrachloride        | ug/L  | <0.17        | 1.0             | 09/30/19 16:47 |            |
| Chlorobenzene               | ug/L  | <0.71        | 2.4             | 09/30/19 16:47 |            |
| Chloroethane                | ug/L  | <1.3         | 5.0             | 09/30/19 16:47 |            |
| Chloroform                  | ug/L  | <1.3         | 5.0             | 09/30/19 16:47 |            |
| Chloromethane               | ug/L  | <2.2         | 7.3             | 09/30/19 16:47 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.27        | 1.0             | 09/30/19 16:47 |            |
| cis-1,3-Dichloropropene     | ug/L  | <3.6         | 12.1            | 09/30/19 16:47 |            |
| Dibromochloromethane        | ug/L  | <2.6         | 8.7             | 09/30/19 16:47 |            |
| Dibromomethane              | ug/L  | <0.94        | 3.1             | 09/30/19 16:47 |            |
| Dichlorodifluoromethane     | ug/L  | <0.50        | 5.0             | 09/30/19 16:47 |            |
| Diisopropyl ether           | ug/L  | <1.9         | 6.3             | 09/30/19 16:47 |            |
| Ethylbenzene                | ug/L  | <0.22        | 1.0             | 09/30/19 16:47 |            |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

METHOD BLANK: 1948273 Matrix: Water  
Associated Lab Samples: 40196011021

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Hexachloro-1,3-butadiene  | ug/L  | <1.2         | 5.0             | 09/30/19 16:47 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.39        | 5.0             | 09/30/19 16:47 |            |
| m&p-Xylene                | ug/L  | <0.47        | 2.0             | 09/30/19 16:47 |            |
| Methyl-tert-butyl ether   | ug/L  | <1.2         | 4.2             | 09/30/19 16:47 |            |
| Methylene Chloride        | ug/L  | <0.58        | 5.0             | 09/30/19 16:47 |            |
| n-Butylbenzene            | ug/L  | <0.71        | 2.4             | 09/30/19 16:47 |            |
| n-Propylbenzene           | ug/L  | <0.81        | 5.0             | 09/30/19 16:47 |            |
| Naphthalene               | ug/L  | <1.2         | 5.0             | 09/30/19 16:47 |            |
| o-Xylene                  | ug/L  | <0.26        | 1.0             | 09/30/19 16:47 |            |
| p-Isopropyltoluene        | ug/L  | <0.80        | 2.7             | 09/30/19 16:47 |            |
| sec-Butylbenzene          | ug/L  | <0.85        | 5.0             | 09/30/19 16:47 |            |
| Styrene                   | ug/L  | <0.47        | 1.6             | 09/30/19 16:47 |            |
| tert-Butylbenzene         | ug/L  | <0.30        | 1.0             | 09/30/19 16:47 |            |
| Tetrachloroethene         | ug/L  | <0.33        | 1.1             | 09/30/19 16:47 |            |
| Tetrahydrofuran           | ug/L  | <2.3         | 20.0            | 09/30/19 16:47 |            |
| Toluene                   | ug/L  | <0.17        | 5.0             | 09/30/19 16:47 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.1         | 3.6             | 09/30/19 16:47 |            |
| trans-1,3-Dichloropropene | ug/L  | <4.4         | 14.6            | 09/30/19 16:47 |            |
| Trichloroethene           | ug/L  | <0.26        | 1.0             | 09/30/19 16:47 |            |
| Trichlorofluoromethane    | ug/L  | <0.21        | 1.0             | 09/30/19 16:47 |            |
| Vinyl chloride            | ug/L  | <0.17        | 1.0             | 09/30/19 16:47 |            |
| 4-Bromofluorobenzene (S)  | %     | 92           | 70-130          | 09/30/19 16:47 |            |
| Dibromofluoromethane (S)  | %     | 104          | 70-130          | 09/30/19 16:47 |            |
| Toluene-d8 (S)            | %     | 95           | 70-130          | 09/30/19 16:47 |            |

LABORATORY CONTROL SAMPLE: 1948274

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 58.5       | 117       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 55.2       | 110       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 61.3       | 123       | 73-150       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 56.5       | 113       | 73-138       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 49.8       | 100       | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 44.5       | 89        | 64-129       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 47.4       | 95        | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 54.3       | 109       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 57.6       | 115       | 75-140       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 65.3       | 131       | 73-135       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 54.0       | 108       | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 55.9       | 112       | 70-130       |            |
| Benzene                     | ug/L  | 50          | 58.1       | 116       | 70-130       |            |
| Bromodichloromethane        | ug/L  | 50          | 61.0       | 122       | 70-130       |            |
| Bromoform                   | ug/L  | 50          | 44.8       | 90        | 68-129       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

LABORATORY CONTROL SAMPLE: 1948274

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromomethane              | ug/L  | 50          | 40.0       | 80        | 18-159       |            |
| Carbon tetrachloride      | ug/L  | 50          | 60.5       | 121       | 70-130       |            |
| Chlorobenzene             | ug/L  | 50          | 55.1       | 110       | 70-130       |            |
| Chloroethane              | ug/L  | 50          | 46.6       | 93        | 53-147       |            |
| Chloroform                | ug/L  | 50          | 59.3       | 119       | 74-136       |            |
| Chloromethane             | ug/L  | 50          | 36.3       | 73        | 29-115       |            |
| cis-1,2-Dichloroethene    | ug/L  | 50          | 54.7       | 109       | 70-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 50          | 58.3       | 117       | 70-130       |            |
| Dibromochloromethane      | ug/L  | 50          | 47.2       | 94        | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 50          | 28.5       | 57        | 10-130       |            |
| Ethylbenzene              | ug/L  | 50          | 60.4       | 121       | 80-124       |            |
| Isopropylbenzene (Cumene) | ug/L  | 50          | 60.4       | 121       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 117        | 117       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 43.1       | 86        | 54-137       |            |
| Methylene Chloride        | ug/L  | 50          | 57.8       | 116       | 73-138       |            |
| o-Xylene                  | ug/L  | 50          | 56.5       | 113       | 70-130       |            |
| Styrene                   | ug/L  | 50          | 59.0       | 118       | 70-130       |            |
| Tetrachloroethene         | ug/L  | 50          | 48.3       | 97        | 70-130       |            |
| Toluene                   | ug/L  | 50          | 53.6       | 107       | 80-126       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 59.1       | 118       | 73-145       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 45.8       | 92        | 70-130       |            |
| Trichloroethene           | ug/L  | 50          | 64.5       | 129       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 53.0       | 106       | 76-147       |            |
| Vinyl chloride            | ug/L  | 50          | 39.3       | 79        | 51-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 104       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 107       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 95        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949737 1949738

| Parameter                   | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       | 40196019021 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| 1,1,1-Trichloroethane       | ug/L  | <0.24              | 50          | 50          | 50    | 57.6      | 58.2       | 115      | 116       | 70-130       | 1   | 20      |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28              | 50          | 50          | 50    | 55.1      | 53.6       | 110      | 107       | 70-130       | 3   | 20      |      |
| 1,1,2-Trichloroethane       | ug/L  | <0.55              | 50          | 50          | 50    | 51.1      | 52.2       | 102      | 104       | 70-137       | 2   | 20      |      |
| 1,1-Dichloroethane          | ug/L  | <0.27              | 50          | 50          | 50    | 58.8      | 58.9       | 118      | 118       | 73-153       | 0   | 20      |      |
| 1,1-Dichloroethene          | ug/L  | <0.24              | 50          | 50          | 50    | 51.1      | 54.6       | 102      | 109       | 73-138       | 7   | 20      |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95              | 50          | 50          | 50    | 49.5      | 51.4       | 99       | 103       | 70-130       | 4   | 20      |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8               | 50          | 50          | 50    | 49.7      | 47.0       | 99       | 94        | 58-129       | 6   | 20      |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83              | 50          | 50          | 50    | 48.2      | 49.2       | 96       | 98        | 70-130       | 2   | 20      |      |
| 1,2-Dichlorobenzene         | ug/L  | <0.71              | 50          | 50          | 50    | 51.9      | 53.3       | 104      | 107       | 70-130       | 3   | 20      |      |
| 1,2-Dichloroethane          | ug/L  | <0.28              | 50          | 50          | 50    | 54.8      | 55.2       | 110      | 110       | 75-140       | 1   | 20      |      |
| 1,2-Dichloropropane         | ug/L  | <0.28              | 50          | 50          | 50    | 56.1      | 55.5       | 112      | 111       | 71-138       | 1   | 20      |      |
| 1,3-Dichlorobenzene         | ug/L  | <0.63              | 50          | 50          | 50    | 51.1      | 52.5       | 102      | 105       | 70-130       | 3   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1949737 |       |             |       |             |             |        |        |       |       |        |     | 1949738 |     |
|--|-------|-------------|-------|-------------|-------------|--------|--------|-------|-------|--------|-----|---------|-----|
| Parameter                                      | Units | 40196019021 |       | MS          | MSD         | MS     | MSD    | MS    | MSD   | % Rec  | Max | Qual    |     |
|  |       | Result      | Conc. | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | RPD |         | RPD |
| 1,4-Dichlorobenzene                            | ug/L  | <0.94       | 50    | 50          | 50          | 52.2   | 53.0   | 104   | 106   | 70-130 | 2   | 20      |     |
| Benzene  | ug/L  | <0.25       | 50    | 50          | 50          | 55.0   | 56.4   | 110   | 113   | 70-130 | 2   | 20      |     |
| Bromodichloromethane                           | ug/L  | <0.36       | 50    | 50          | 50          | 52.0   | 51.2   | 104   | 102   | 70-130 | 2   | 20      |     |
| Bromoform                                      | ug/L  | <4.0        | 50    | 50          | 50          | 48.7   | 48.7   | 97    | 97    | 68-129 | 0   | 20      |     |
| Bromomethane                                   | ug/L  | <0.97       | 50    | 50          | 50          | 43.3   | 47.1   | 87    | 94    | 15-170 | 9   | 20      |     |
| Carbon tetrachloride                           | ug/L  | <0.17       | 50    | 50          | 50          | 56.4   | 57.9   | 113   | 116   | 70-130 | 3   | 20      |     |
| Chlorobenzene                                  | ug/L  | <0.71       | 50    | 50          | 50          | 52.8   | 51.9   | 106   | 104   | 70-130 | 2   | 20      |     |
| Chloroethane                                   | ug/L  | <1.3        | 50    | 50          | 50          | 41.6   | 44.9   | 83    | 90    | 51-148 | 7   | 20      |     |
| Chloroform                                     | ug/L  | <1.3        | 50    | 50          | 50          | 55.8   | 57.1   | 112   | 114   | 74-136 | 2   | 20      |     |
| Chloromethane                                  | ug/L  | 3.1J        | 50    | 50          | 50          | 36.1   | 35.9   | 66    | 66    | 23-115 | 0   | 20      |     |
| cis-1,2-Dichloroethene                         | ug/L  | <0.27       | 50    | 50          | 50          | 51.9   | 51.2   | 104   | 102   | 70-131 | 1   | 20      |     |
| cis-1,3-Dichloropropene                        | ug/L  | <3.6        | 50    | 50          | 50          | 50.8   | 50.2   | 102   | 100   | 70-130 | 1   | 20      |     |
| Dibromochloromethane                           | ug/L  | <2.6        | 50    | 50          | 50          | 46.2   | 47.6   | 92    | 95    | 70-130 | 3   | 20      |     |
| Dichlorodifluoromethane                        | ug/L  | <0.50       | 50    | 50          | 50          | 26.1   | 25.0   | 52    | 50    | 10-132 | 4   | 20      |     |
| Ethylbenzene                                   | ug/L  | <0.22       | 50    | 50          | 50          | 53.6   | 54.3   | 107   | 109   | 80-125 | 1   | 20      |     |
| Isopropylbenzene (Cumene)                      | ug/L  | <0.39       | 50    | 50          | 50          | 53.3   | 54.6   | 107   | 109   | 70-130 | 2   | 20      |     |
| m&p-Xylene                                     | ug/L  | <0.47       | 100   | 100         | 100         | 106    | 108    | 106   | 108   | 70-130 | 2   | 20      |     |
| Methyl-tert-butyl ether                        | ug/L  | <1.2        | 50    | 50          | 50          | 43.5   | 42.8   | 87    | 86    | 51-145 | 2   | 20      |     |
| Methylene Chloride                             | ug/L  | <0.58       | 50    | 50          | 50          | 53.9   | 52.9   | 108   | 106   | 73-140 | 2   | 20      |     |
| o-Xylene                                       | ug/L  | <0.26       | 50    | 50          | 50          | 50.8   | 51.7   | 102   | 103   | 70-130 | 2   | 20      |     |
| Styrene  | ug/L  | <0.47       | 50    | 50          | 50          | 52.4   | 53.5   | 105   | 107   | 70-130 | 2   | 20      |     |
| Tetrachloroethene                              | ug/L  | <0.33       | 50    | 50          | 50          | 51.9   | 49.7   | 104   | 99    | 70-130 | 4   | 20      |     |
| Toluene  | ug/L  | <0.17       | 50    | 50          | 50          | 54.5   | 52.5   | 109   | 105   | 80-131 | 4   | 20      |     |
| trans-1,2-Dichloroethene                       | ug/L  | <1.1        | 50    | 50          | 50          | 54.2   | 54.5   | 108   | 109   | 73-148 | 1   | 20      |     |
| trans-1,3-Dichloropropene                      | ug/L  | <4.4        | 50    | 50          | 50          | 47.7   | 48.3   | 95    | 97    | 70-130 | 1   | 20      |     |
| Trichloroethene                                | ug/L  | 2.8         | 50    | 50          | 50          | 57.8   | 57.6   | 110   | 110   | 70-130 | 0   | 20      |     |
| Trichlorofluoromethane                         | ug/L  | <0.21       | 50    | 50          | 50          | 48.8   | 49.4   | 98    | 99    | 74-147 | 1   | 20      |     |
| Vinyl chloride                                 | ug/L  | <0.17       | 50    | 50          | 50          | 39.7   | 40.3   | 79    | 81    | 41-129 | 1   | 20      |     |
| 4-Bromofluorobenzene (S)                       | %     |             |       |             |             |        |        | 96    | 97    | 70-130 |     |         |     |
| Dibromofluoromethane (S)                       | %     |             |       |             |             |        |        | 107   | 108   | 70-130 |     |         |     |
| Toluene-d8 (S)                                 | %     |             |       |             |             |        |        | 101   | 99    | 70-130 |     |         |     |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335812 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40196011022

METHOD BLANK: 1950104 Matrix: Water  
Associated Lab Samples: 40196011022

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.27        | 1.0             | 10/01/19 16:58 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.24        | 1.0             | 10/01/19 16:58 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28        | 1.0             | 10/01/19 16:58 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.55        | 5.0             | 10/01/19 16:58 |            |
| 1,1-Dichloroethane          | ug/L  | <0.27        | 1.0             | 10/01/19 16:58 |            |
| 1,1-Dichloroethene          | ug/L  | <0.24        | 1.0             | 10/01/19 16:58 |            |
| 1,1-Dichloropropene         | ug/L  | <0.54        | 1.8             | 10/01/19 16:58 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.63        | 5.0             | 10/01/19 16:58 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.59        | 5.0             | 10/01/19 16:58 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95        | 5.0             | 10/01/19 16:58 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.84        | 2.8             | 10/01/19 16:58 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8         | 5.9             | 10/01/19 16:58 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83        | 2.8             | 10/01/19 16:58 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.71        | 2.4             | 10/01/19 16:58 |            |
| 1,2-Dichloroethane          | ug/L  | <0.28        | 1.0             | 10/01/19 16:58 |            |
| 1,2-Dichloropropane         | ug/L  | <0.28        | 1.0             | 10/01/19 16:58 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.87        | 2.9             | 10/01/19 16:58 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.63        | 2.1             | 10/01/19 16:58 |            |
| 1,3-Dichloropropane         | ug/L  | <0.83        | 2.8             | 10/01/19 16:58 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.94        | 3.1             | 10/01/19 16:58 |            |
| 2,2-Dichloropropane         | ug/L  | <2.3         | 7.6             | 10/01/19 16:58 |            |
| 2-Chlorotoluene             | ug/L  | <0.93        | 5.0             | 10/01/19 16:58 |            |
| 4-Chlorotoluene             | ug/L  | <0.76        | 2.5             | 10/01/19 16:58 |            |
| Benzene                     | ug/L  | <0.25        | 1.0             | 10/01/19 16:58 |            |
| Bromobenzene                | ug/L  | <0.24        | 1.0             | 10/01/19 16:58 |            |
| Bromochloromethane          | ug/L  | <0.36        | 5.0             | 10/01/19 16:58 |            |
| Bromodichloromethane        | ug/L  | <0.36        | 1.2             | 10/01/19 16:58 |            |
| Bromoform                   | ug/L  | <4.0         | 13.2            | 10/01/19 16:58 |            |
| Bromomethane                | ug/L  | <0.97        | 5.0             | 10/01/19 16:58 |            |
| Carbon tetrachloride        | ug/L  | <0.17        | 1.0             | 10/01/19 16:58 |            |
| Chlorobenzene               | ug/L  | <0.71        | 2.4             | 10/01/19 16:58 |            |
| Chloroethane                | ug/L  | <1.3         | 5.0             | 10/01/19 16:58 |            |
| Chloroform                  | ug/L  | <1.3         | 5.0             | 10/01/19 16:58 |            |
| Chloromethane               | ug/L  | <2.2         | 7.3             | 10/01/19 16:58 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.27        | 1.0             | 10/01/19 16:58 |            |
| cis-1,3-Dichloropropene     | ug/L  | <3.6         | 12.1            | 10/01/19 16:58 |            |
| Dibromochloromethane        | ug/L  | <2.6         | 8.7             | 10/01/19 16:58 |            |
| Dibromomethane              | ug/L  | <0.94        | 3.1             | 10/01/19 16:58 |            |
| Dichlorodifluoromethane     | ug/L  | <0.50        | 5.0             | 10/01/19 16:58 |            |
| Diisopropyl ether           | ug/L  | <1.9         | 6.3             | 10/01/19 16:58 |            |
| Ethylbenzene                | ug/L  | <0.22        | 1.0             | 10/01/19 16:58 |            |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

METHOD BLANK: 1950104 Matrix: Water  
Associated Lab Samples: 40196011022

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Hexachloro-1,3-butadiene  | ug/L  | <1.2         | 5.0             | 10/01/19 16:58 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.39        | 5.0             | 10/01/19 16:58 |            |
| m&p-Xylene                | ug/L  | <0.47        | 2.0             | 10/01/19 16:58 |            |
| Methyl-tert-butyl ether   | ug/L  | <1.2         | 4.2             | 10/01/19 16:58 |            |
| Methylene Chloride        | ug/L  | <0.58        | 5.0             | 10/01/19 16:58 |            |
| n-Butylbenzene            | ug/L  | <0.71        | 2.4             | 10/01/19 16:58 |            |
| n-Propylbenzene           | ug/L  | <0.81        | 5.0             | 10/01/19 16:58 |            |
| Naphthalene               | ug/L  | <1.2         | 5.0             | 10/01/19 16:58 |            |
| o-Xylene                  | ug/L  | <0.26        | 1.0             | 10/01/19 16:58 |            |
| p-Isopropyltoluene        | ug/L  | <0.80        | 2.7             | 10/01/19 16:58 |            |
| sec-Butylbenzene          | ug/L  | <0.85        | 5.0             | 10/01/19 16:58 |            |
| Styrene                   | ug/L  | <0.47        | 1.6             | 10/01/19 16:58 |            |
| tert-Butylbenzene         | ug/L  | <0.30        | 1.0             | 10/01/19 16:58 |            |
| Tetrachloroethene         | ug/L  | <0.33        | 1.1             | 10/01/19 16:58 |            |
| Tetrahydrofuran           | ug/L  | <2.3         | 20.0            | 10/01/19 16:58 |            |
| Toluene                   | ug/L  | <0.17        | 5.0             | 10/01/19 16:58 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.1         | 3.6             | 10/01/19 16:58 |            |
| trans-1,3-Dichloropropene | ug/L  | <4.4         | 14.6            | 10/01/19 16:58 |            |
| Trichloroethene           | ug/L  | <0.26        | 1.0             | 10/01/19 16:58 |            |
| Trichlorofluoromethane    | ug/L  | <0.21        | 1.0             | 10/01/19 16:58 |            |
| Vinyl chloride            | ug/L  | <0.17        | 1.0             | 10/01/19 16:58 |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 70-130          | 10/01/19 16:58 |            |
| Dibromofluoromethane (S)  | %     | 106          | 70-130          | 10/01/19 16:58 |            |
| Toluene-d8 (S)            | %     | 98           | 70-130          | 10/01/19 16:58 |            |

LABORATORY CONTROL SAMPLE: 1950105

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 59.9       | 120       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 55.5       | 111       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 55.9       | 112       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 60.5       | 121       | 73-150       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 54.3       | 109       | 73-138       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 49.1       | 98        | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 48.0       | 96        | 64-129       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 52.5       | 105       | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 53.2       | 106       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 57.4       | 115       | 75-140       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 56.5       | 113       | 73-135       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 53.2       | 106       | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 52.9       | 106       | 70-130       |            |
| Benzene                     | ug/L  | 50          | 58.6       | 117       | 70-130       |            |
| Bromodichloromethane        | ug/L  | 50          | 52.4       | 105       | 70-130       |            |
| Bromoform                   | ug/L  | 50          | 49.3       | 99        | 68-129       |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

LABORATORY CONTROL SAMPLE: 1950105

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromomethane              | ug/L  | 50          | 43.6       | 87        | 18-159       |            |
| Carbon tetrachloride      | ug/L  | 50          | 58.1       | 116       | 70-130       |            |
| Chlorobenzene             | ug/L  | 50          | 51.9       | 104       | 70-130       |            |
| Chloroethane              | ug/L  | 50          | 46.3       | 93        | 53-147       |            |
| Chloroform                | ug/L  | 50          | 57.8       | 116       | 74-136       |            |
| Chloromethane             | ug/L  | 50          | 39.9       | 80        | 29-115       |            |
| cis-1,2-Dichloroethene    | ug/L  | 50          | 53.6       | 107       | 70-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 50          | 51.3       | 103       | 70-130       |            |
| Dibromochloromethane      | ug/L  | 50          | 49.1       | 98        | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 50          | 35.9       | 72        | 10-130       |            |
| Ethylbenzene              | ug/L  | 50          | 54.6       | 109       | 80-124       |            |
| Isopropylbenzene (Cumene) | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 107        | 107       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 47.7       | 95        | 54-137       |            |
| Methylene Chloride        | ug/L  | 50          | 54.1       | 108       | 73-138       |            |
| o-Xylene                  | ug/L  | 50          | 51.5       | 103       | 70-130       |            |
| Styrene                   | ug/L  | 50          | 53.4       | 107       | 70-130       |            |
| Tetrachloroethene         | ug/L  | 50          | 51.4       | 103       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 53.5       | 107       | 80-126       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 58.7       | 117       | 73-145       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 51.4       | 103       | 70-130       |            |
| Trichloroethene           | ug/L  | 50          | 55.9       | 112       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 52.7       | 105       | 76-147       |            |
| Vinyl chloride            | ug/L  | 50          | 43.1       | 86        | 51-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 96        | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 101       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950106 1950107

| Parameter                   | Units | MS          |        | MSD         |             | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       | 40196133022 | Result | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| 1,1,1-Trichloroethane       | ug/L  | <0.24       | 50     | 50          | 50          | 60.3      | 62.3       | 121      | 125       | 70-130       | 3   | 20      |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28       | 50     | 50          | 50          | 57.1      | 60.6       | 114      | 121       | 70-130       | 6   | 20      |      |
| 1,1,2-Trichloroethane       | ug/L  | <0.55       | 50     | 50          | 50          | 49.8      | 53.2       | 100      | 106       | 70-137       | 7   | 20      |      |
| 1,1-Dichloroethane          | ug/L  | <0.27       | 50     | 50          | 50          | 62.4      | 64.8       | 125      | 130       | 73-153       | 4   | 20      |      |
| 1,1-Dichloroethene          | ug/L  | <0.24       | 50     | 50          | 50          | 54.3      | 56.4       | 109      | 113       | 73-138       | 4   | 20      |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95       | 50     | 50          | 50          | 52.2      | 52.8       | 104      | 106       | 70-130       | 1   | 20      |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8        | 50     | 50          | 50          | 48.7      | 53.9       | 97       | 108       | 58-129       | 10  | 20      |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83       | 50     | 50          | 50          | 46.8      | 50.4       | 94       | 101       | 70-130       | 7   | 20      |      |
| 1,2-Dichlorobenzene         | ug/L  | <0.71       | 50     | 50          | 50          | 53.4      | 54.0       | 107      | 108       | 70-130       | 1   | 20      |      |
| 1,2-Dichloroethane          | ug/L  | <0.28       | 50     | 50          | 50          | 59.0      | 61.3       | 118      | 123       | 75-140       | 4   | 20      |      |
| 1,2-Dichloropropane         | ug/L  | <0.28       | 50     | 50          | 50          | 65.1      | 61.5       | 130      | 123       | 71-138       | 6   | 20      |      |
| 1,3-Dichlorobenzene         | ug/L  | <0.63       | 50     | 50          | 50          | 52.3      | 53.1       | 105      | 106       | 70-130       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950106 1950107 |       |             |             |             |        |        |       |       |        |              |         |      |
|--|-------|-------------|-------------|-------------|--------|--------|-------|-------|--------|--------------|---------|------|
| Parameter  | Units | MS          |             | MSD         |        | MS     |       | MSD   |        | % Rec Limits | Max RPD | Qual |
|  |       | 40196133022 | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec |        |              |         |      |
| 1,4-Dichlorobenzene                                    | ug/L  | <0.94       | 50          | 50          | 52.4   | 54.5   | 105   | 109   | 70-130 | 4            | 20      |      |
| Benzene  | ug/L  | <0.25       | 50          | 50          | 56.7   | 60.0   | 113   | 120   | 70-130 | 6            | 20      |      |
| Bromodichloromethane                                   | ug/L  | <0.36       | 50          | 50          | 60.4   | 58.4   | 121   | 117   | 70-130 | 3            | 20      |      |
| Bromoform  | ug/L  | <4.0        | 50          | 50          | 42.9   | 46.7   | 86    | 93    | 68-129 | 9            | 20      |      |
| Bromomethane   | ug/L  | <0.97       | 50          | 50          | 45.9   | 42.4   | 92    | 85    | 15-170 | 8            | 20      |      |
| Carbon tetrachloride                                   | ug/L  | <0.17       | 50          | 50          | 59.0   | 61.4   | 118   | 123   | 70-130 | 4            | 20      |      |
| Chlorobenzene  | ug/L  | <0.71       | 50          | 50          | 53.0   | 53.4   | 106   | 107   | 70-130 | 1            | 20      |      |
| Chloroethane   | ug/L  | <1.3        | 50          | 50          | 46.6   | 46.5   | 93    | 93    | 51-148 | 0            | 20      |      |
| Chloroform   | ug/L  | <1.3        | 50          | 50          | 58.5   | 59.7   | 117   | 119   | 74-136 | 2            | 20      |      |
| Chloromethane  | ug/L  | <2.2        | 50          | 50          | 39.8   | 39.8   | 78    | 78    | 23-115 | 0            | 20      |      |
| cis-1,2-Dichloroethene                                 | ug/L  | <0.27       | 50          | 50          | 56.7   | 55.8   | 113   | 112   | 70-131 | 2            | 20      |      |
| cis-1,3-Dichloropropene                                | ug/L  | <3.6        | 50          | 50          | 59.6   | 56.1   | 119   | 112   | 70-130 | 6            | 20      |      |
| Dibromochloromethane                                   | ug/L  | <2.6        | 50          | 50          | 46.1   | 49.0   | 92    | 98    | 70-130 | 6            | 20      |      |
| Dichlorodifluoromethane                                | ug/L  | <0.50       | 50          | 50          | 34.3   | 34.7   | 69    | 69    | 10-132 | 1            | 20      |      |
| Ethylbenzene   | ug/L  | 10.2        | 50          | 50          | 69.2   | 69.1   | 118   | 118   | 80-125 | 0            | 20      |      |
| Isopropylbenzene (Cumene)                              | ug/L  | 0.48J       | 50          | 50          | 58.7   | 59.6   | 116   | 118   | 70-130 | 1            | 20      |      |
| m&p-Xylene   | ug/L  | 2.6         | 100         | 100         | 115    | 117    | 112   | 114   | 70-130 | 2            | 20      |      |
| Methyl-tert-butyl ether                                | ug/L  | <1.2        | 50          | 50          | 46.2   | 51.6   | 92    | 103   | 51-145 | 11           | 20      |      |
| Methylene Chloride                                     | ug/L  | <0.58       | 50          | 50          | 55.0   | 56.2   | 110   | 112   | 73-140 | 2            | 20      |      |
| o-Xylene   | ug/L  | 10.4        | 50          | 50          | 66.5   | 66.5   | 112   | 112   | 70-130 | 0            | 20      |      |
| Styrene  | ug/L  | <0.47       | 50          | 50          | 56.9   | 57.9   | 114   | 116   | 70-130 | 2            | 20      |      |
| Tetrachloroethene                                      | ug/L  | <0.33       | 50          | 50          | 46.7   | 47.4   | 93    | 95    | 70-130 | 1            | 20      |      |
| Toluene  | ug/L  | 0.28J       | 50          | 50          | 51.8   | 52.6   | 103   | 105   | 80-131 | 2            | 20      |      |
| trans-1,2-Dichloroethene                               | ug/L  | <1.1        | 50          | 50          | 56.8   | 60.0   | 114   | 120   | 73-148 | 6            | 20      |      |
| trans-1,3-Dichloropropene                              | ug/L  | <4.4        | 50          | 50          | 45.6   | 49.0   | 91    | 98    | 70-130 | 7            | 20      |      |
| Trichloroethene  | ug/L  | <0.26       | 50          | 50          | 63.8   | 60.9   | 128   | 122   | 70-130 | 5            | 20      |      |
| Trichlorofluoromethane                                 | ug/L  | <0.21       | 50          | 50          | 53.0   | 54.3   | 106   | 109   | 74-147 | 3            | 20      |      |
| Vinyl chloride   | ug/L  | <0.17       | 50          | 50          | 41.6   | 43.4   | 83    | 87    | 41-129 | 4            | 20      |      |
| 4-Bromofluorobenzene (S)                               | %     |             |             |             |        |        | 104   | 103   | 70-130 |              |         |      |
| Dibromofluoromethane (S)                               | %     |             |             |             |        |        | 112   | 113   | 70-130 |              |         |      |
| Toluene-d8 (S)   | %     |             |             |             |        |        | 97    | 95    | 70-130 |              |         |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 335874 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012

METHOD BLANK: 1950263 Matrix: Water  
Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006, 40196011007, 40196011008, 40196011009, 40196011010, 40196011011, 40196011012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | <0.50        | 2.0             | 10/04/19 13:26 |            |

LABORATORY CONTROL SAMPLE: 1950264

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 20          | 20.1       | 101       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950265 1950266

| Parameter | Units | 40195956001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride  | mg/L  | 81.6               | 100            | 100             | 178       | 187        | 96       | 106       | 90-110       | 5   | 15      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1950267 1950268

| Parameter | Units | 40196011011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride  | mg/L  | 40.2               | 100            | 100             | 137       | 136        | 97       | 96        | 90-110       | 1   | 15      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 336128 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

METHOD BLANK: 1951559 Matrix: Water  
Associated Lab Samples: 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | 0.66J        | 2.0             | 10/03/19 13:46 |            |

LABORATORY CONTROL SAMPLE: 1951560

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 20          | 20.5       | 103       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951561 1951562

| Parameter | Units | 40196305001 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Chloride  | mg/L  | 91.0               | 200         | 200         | 304       | 299        | 107      | 104       | 90-110       | 2   | 15      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1951563 1951564

| Parameter | Units | 40196071003 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|           |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Chloride  | mg/L  | 251                | 200         | 200         | 451       | 461        | 100      | 105       | 90-110       | 2   | 15      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

QC Batch: 336499

Analysis Method: EPA 310.2

QC Batch Method: EPA 310.2

Analysis Description: 310.2 Alkalinity

Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006

METHOD BLANK: 1954752

Matrix: Water

Associated Lab Samples: 40196011001, 40196011002, 40196011003, 40196011004, 40196011005, 40196011006

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | <7.0         | 23.5            | 10/07/19 11:55 |            |

LABORATORY CONTROL SAMPLE: 1954753

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | 100         | 104        | 104       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954754 1954755

| Parameter                  | Units | 40196011006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L  | 446                | 200            | 200             | 653       | 646        | 103      | 100       | 90-110       | 1   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 336528 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40196011007

METHOD BLANK: 1954833 Matrix: Water  
Associated Lab Samples: 40196011007

| Parameter                              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | <7.0         | 23.5            | 10/07/19 13:05 |            |

LABORATORY CONTROL SAMPLE: 1954834

| Parameter                              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 100         | 91.6       | 92        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954835 1954836

| Parameter                              | Units | 40195929004 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|  |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 279         | 200            | 200             | 485       | 475        | 103      | 98        | 90-110 | 2            | 20  |         |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954837 1954838

| Parameter                              | Units | 40196011007 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|--|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|  |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 225         | 200            | 200             | 427       | 422        | 101      | 99        | 90-110 | 1            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 336529 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

METHOD BLANK: 1954839 Matrix: Water  
Associated Lab Samples: 40196011008, 40196011009, 40196011010, 40196011011, 40196011012, 40196011013, 40196011014, 40196011015, 40196011016, 40196011017, 40196011018, 40196011019, 40196011020, 40196011021

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | <7.0         | 23.5            | 10/07/19 13:26 |            |

LABORATORY CONTROL SAMPLE: 1954840

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | 100         | 98.1       | 98        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954841 1954842

| Parameter                  | Units | 40196011011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L  | 239                | 200            | 200             | 426       | 408        | 94       | 85        | 90-110       | 5   | 20      | M0   |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954843 1954844

| Parameter                  | Units | 40196071004 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L  | 579                | 500            | 500             | 1050      | 1030       | 94       | 91        | 90-110       | 2   | 20      |      |

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

QC Batch: 336530 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 40196011019, 40196011020

METHOD BLANK: 1954845 Matrix: Water  
Associated Lab Samples: 40196011019, 40196011020

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.25        | 0.50            | 10/07/19 14:06 |            |

LABORATORY CONTROL SAMPLE: 1954846

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 10          | 10.6       | 106       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954847 1954848

| Parameter         | Units | 40196200001 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                   |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Nitrogen, Ammonia | mg/L  | <0.25              | 10          | 10          | 10.0      | 10.0       | 100      | 100       | 90-110       | 0   | 20      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1954849 1954850

| Parameter         | Units | 40196518001 Result | MS          | MSD         | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                   |       |                    | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| Nitrogen, Ammonia | mg/L  | <0.25              | 10          | 10          | 10.2      | 10.2       | 102      | 102       | 90-110       | 0   | 20      |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

QC Batch: 336229 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 40196011019, 40196011020

METHOD BLANK: 1952166 Matrix: Water  
Associated Lab Samples: 40196011019, 40196011020

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | <0.22        | 0.73            | 10/03/19 16:59 |            |

LABORATORY CONTROL SAMPLE: 1952167

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | 5           | 4.8        | 96        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1952168 1952169

| Parameter                 | Units | 40195939001 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 8.1         | 20             | 20              | 26.6      | 26.4       | 93       | 92        | 90-110 | 1            | 20  |         |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1952170 1952171

| Parameter                 | Units | 40196200001 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 0.36J       | 5              | 5               | 5.2       | 5.0        | 96       | 93        | 90-110 | 3            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

---

### DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

### WORKORDER QUALIFIERS

WO: 40196011

[1] Revised Report: The incorrect chain-of-custody was attached to the original.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 11115796 RHINELANDER LF  
Pace Project No.: 40196011

| Lab ID      | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 40196011001 | MW-20C      | EPA 6010        | 335944   |                   |                  |
| 40196011002 | MW-20B      | EPA 6010        | 335944   |                   |                  |
| 40196011003 | MW-4A       | EPA 6010        | 335944   |                   |                  |
| 40196011004 | MW-5A       | EPA 6010        | 335944   |                   |                  |
| 40196011005 | MW-25B      | EPA 6010        | 335944   |                   |                  |
| 40196011006 | MW-20A      | EPA 6010        | 335944   |                   |                  |
| 40196011007 | MW-16A      | EPA 6010        | 335944   |                   |                  |
| 40196011008 | MW-16A DUP  | EPA 6010        | 335944   |                   |                  |
| 40196011009 | MW-16B      | EPA 6010        | 335944   |                   |                  |
| 40196011010 | FIELD BLANK | EPA 6010        | 335944   |                   |                  |
| 40196011011 | MW-16C      | EPA 6010        | 335944   |                   |                  |
| 40196011012 | MW-18A      | EPA 6010        | 335944   |                   |                  |
| 40196011013 | MW-18B      | EPA 6010        | 335944   |                   |                  |
| 40196011014 | MW-18C      | EPA 6010        | 335944   |                   |                  |
| 40196011015 | MW-26B      | EPA 6010        | 335944   |                   |                  |
| 40196011016 | MW-26C      | EPA 6010        | 335948   |                   |                  |
| 40196011017 | MW-28A      | EPA 6010        | 335948   |                   |                  |
| 40196011018 | MW-27B      | EPA 6010        | 335948   |                   |                  |
| 40196011019 | MW-21A      | EPA 6010        | 335948   |                   |                  |
| 40196011020 | MW-2A       | EPA 6010        | 335948   |                   |                  |
| 40196011021 | MW-2B       | EPA 6010        | 335948   |                   |                  |
| 40196011001 | MW-20C      | EPA 8260        | 335603   |                   |                  |
| 40196011002 | MW-20B      | EPA 8260        | 335603   |                   |                  |
| 40196011003 | MW-4A       | EPA 8260        | 335603   |                   |                  |
| 40196011004 | MW-5A       | EPA 8260        | 335603   |                   |                  |
| 40196011005 | MW-25B      | EPA 8260        | 335603   |                   |                  |
| 40196011006 | MW-20A      | EPA 8260        | 335603   |                   |                  |
| 40196011007 | MW-16A      | EPA 8260        | 335603   |                   |                  |
| 40196011008 | MW-16A DUP  | EPA 8260        | 335603   |                   |                  |
| 40196011009 | MW-16B      | EPA 8260        | 335603   |                   |                  |
| 40196011010 | FIELD BLANK | EPA 8260        | 335603   |                   |                  |
| 40196011011 | MW-16C      | EPA 8260        | 335603   |                   |                  |
| 40196011012 | MW-18A      | EPA 8260        | 335603   |                   |                  |
| 40196011013 | MW-18B      | EPA 8260        | 335603   |                   |                  |
| 40196011014 | MW-18C      | EPA 8260        | 335603   |                   |                  |
| 40196011015 | MW-26B      | EPA 8260        | 335603   |                   |                  |
| 40196011016 | MW-26C      | EPA 8260        | 335603   |                   |                  |
| 40196011017 | MW-28A      | EPA 8260        | 335603   |                   |                  |
| 40196011018 | MW-27B      | EPA 8260        | 335603   |                   |                  |
| 40196011019 | MW-21A      | EPA 8260        | 335603   |                   |                  |
| 40196011020 | MW-2A       | EPA 8260        | 335603   |                   |                  |
| 40196011021 | MW-2B       | EPA 8260        | 335606   |                   |                  |
| 40196011022 | TRIP BLANK  | EPA 8260        | 335812   |                   |                  |
| 40196011001 | MW-20C      |                 |          |                   |                  |
| 40196011002 | MW-20B      |                 |          |                   |                  |
| 40196011003 | MW-4A       |                 |          |                   |                  |

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 40196011004 | MW-5A       |                 |          |                   |                  |
| 40196011005 | MW-25B      |                 |          |                   |                  |
| 40196011006 | MW-20A      |                 |          |                   |                  |
| 40196011007 | MW-16A      |                 |          |                   |                  |
| 40196011008 | MW-16A DUP  |                 |          |                   |                  |
| 40196011009 | MW-16B      |                 |          |                   |                  |
| 40196011011 | MW-16C      |                 |          |                   |                  |
| 40196011012 | MW-18A      |                 |          |                   |                  |
| 40196011013 | MW-18B      |                 |          |                   |                  |
| 40196011014 | MW-18C      |                 |          |                   |                  |
| 40196011015 | MW-26B      |                 |          |                   |                  |
| 40196011016 | MW-26C      |                 |          |                   |                  |
| 40196011017 | MW-28A      |                 |          |                   |                  |
| 40196011018 | MW-27B      |                 |          |                   |                  |
| 40196011019 | MW-21A      |                 |          |                   |                  |
| 40196011020 | MW-2A       |                 |          |                   |                  |
| 40196011021 | MW-2B       |                 |          |                   |                  |
| 40196011023 | MW-19B      |                 |          |                   |                  |
| 40196011024 | MW-19C      |                 |          |                   |                  |
| 40196011025 | MW-28B      |                 |          |                   |                  |
| 40196011001 | MW-20C      | EPA 300.0       | 335874   |                   |                  |
| 40196011002 | MW-20B      | EPA 300.0       | 335874   |                   |                  |
| 40196011003 | MW-4A       | EPA 300.0       | 335874   |                   |                  |
| 40196011004 | MW-5A       | EPA 300.0       | 335874   |                   |                  |
| 40196011005 | MW-25B      | EPA 300.0       | 335874   |                   |                  |
| 40196011006 | MW-20A      | EPA 300.0       | 335874   |                   |                  |
| 40196011007 | MW-16A      | EPA 300.0       | 335874   |                   |                  |
| 40196011008 | MW-16A DUP  | EPA 300.0       | 335874   |                   |                  |
| 40196011009 | MW-16B      | EPA 300.0       | 335874   |                   |                  |
| 40196011010 | FIELD BLANK | EPA 300.0       | 335874   |                   |                  |
| 40196011011 | MW-16C      | EPA 300.0       | 335874   |                   |                  |
| 40196011012 | MW-18A      | EPA 300.0       | 335874   |                   |                  |
| 40196011013 | MW-18B      | EPA 300.0       | 336128   |                   |                  |
| 40196011014 | MW-18C      | EPA 300.0       | 336128   |                   |                  |
| 40196011015 | MW-26B      | EPA 300.0       | 336128   |                   |                  |
| 40196011016 | MW-26C      | EPA 300.0       | 336128   |                   |                  |
| 40196011017 | MW-28A      | EPA 300.0       | 336128   |                   |                  |
| 40196011018 | MW-27B      | EPA 300.0       | 336128   |                   |                  |
| 40196011019 | MW-21A      | EPA 300.0       | 336128   |                   |                  |
| 40196011020 | MW-2A       | EPA 300.0       | 336128   |                   |                  |
| 40196011021 | MW-2B       | EPA 300.0       | 336128   |                   |                  |
| 40196011001 | MW-20C      | EPA 310.2       | 336499   |                   |                  |
| 40196011002 | MW-20B      | EPA 310.2       | 336499   |                   |                  |
| 40196011003 | MW-4A       | EPA 310.2       | 336499   |                   |                  |
| 40196011004 | MW-5A       | EPA 310.2       | 336499   |                   |                  |
| 40196011005 | MW-25B      | EPA 310.2       | 336499   |                   |                  |
| 40196011006 | MW-20A      | EPA 310.2       | 336499   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796 RHINELANDER LF

Pace Project No.: 40196011

| Lab ID      | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 40196011007 | MW-16A      | EPA 310.2       | 336528   |                   |                  |
| 40196011008 | MW-16A DUP  | EPA 310.2       | 336529   |                   |                  |
| 40196011009 | MW-16B      | EPA 310.2       | 336529   |                   |                  |
| 40196011010 | FIELD BLANK | EPA 310.2       | 336529   |                   |                  |
| 40196011011 | MW-16C      | EPA 310.2       | 336529   |                   |                  |
| 40196011012 | MW-18A      | EPA 310.2       | 336529   |                   |                  |
| 40196011013 | MW-18B      | EPA 310.2       | 336529   |                   |                  |
| 40196011014 | MW-18C      | EPA 310.2       | 336529   |                   |                  |
| 40196011015 | MW-26B      | EPA 310.2       | 336529   |                   |                  |
| 40196011016 | MW-26C      | EPA 310.2       | 336529   |                   |                  |
| 40196011017 | MW-28A      | EPA 310.2       | 336529   |                   |                  |
| 40196011018 | MW-27B      | EPA 310.2       | 336529   |                   |                  |
| 40196011019 | MW-21A      | EPA 310.2       | 336529   |                   |                  |
| 40196011020 | MW-2A       | EPA 310.2       | 336529   |                   |                  |
| 40196011021 | MW-2B       | EPA 310.2       | 336529   |                   |                  |
| 40196011019 | MW-21A      | EPA 350.1       | 336530   |                   |                  |
| 40196011020 | MW-2A       | EPA 350.1       | 336530   |                   |                  |
| 40196011019 | MW-21A      | EPA 351.2       | 336229   | EPA 351.2         | 336300           |
| 40196011020 | MW-2A       | EPA 351.2       | 336229   | EPA 351.2         | 336300           |

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **GHD**  
 Branch/Location: **St. Paul**  
 Project Contact: **Grant Anderson**  
 Phone: **651-639-0913**  
 Project Number: **1115796**  
 Project Name: **Rhineland LP**  
 Project State: **WI**  
 Sampled By (Print): **Ryan Aarot**  
 Sampled By (Sign): *[Signature]*  
 PO #: **-** Regulatory Program:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2  
 40196011  
 See S50W

### CHAIN OF CUSTODY

\*Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)  
 PRESERVATION (CODE)\*

| Y/N                | N  | N | Y | Yes |  |  |  |  |  |  |
|--------------------|--|---|---|-----|--|--|--|--|--|--|
|                    | B  | A | D | D   |  |  |  |  |  |  |
| Analyses Requested | VOCs + tetrahydrofuran<br>ALK: Chloride<br>Hardness, Fe, Mn<br>Boron |   |   |     |  |  |  |  |  |  |

Quote #: **See S50W**

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

Data Package Options (billable)  
 EPA Level III  
 EPA Level IV

MS/MSD  
 On your sample (billable)  
 NOT needed on your sample

Matrix Codes  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID   | COLLECTION |      | MATRIX | Analysis Requested | Y/N | N | N | Y | Yes | Profile # |
|------------|-------------------|------------|------|--------|--------------------|-----|---|---|---|-----|-----------|
|            |                   | DATE       | TIME |        |                    |     |   |   |   |     |           |
| 001        | W-190924-PA-MW20C | 9/24/19    | 1600 | GW     | /                  | /   | / | / | / | /   |           |
| 002        | MW20B             |            | 1602 |        | /                  | /   | / | / | / | /   |           |
| 003        | MW4A              |            | 1416 |        | /                  | /   | / | / | / | X   |           |
| 004        | MW5A              |            | 1435 |        | /                  | /   | / | / | / | X   |           |
| 005        | MW25B             |            | 1528 |        | /                  | /   | / | / | / | X   |           |
| 006        | W-190924-PA-MW20A |            | 1611 |        | /                  | /   | / | / | / | X   |           |
| 007        | W-190925-PA-MW16A | 9/25/19    | 944  |        | /                  | /   | / | / | / |     |           |
| 008        | MW16ADP           |            | 944  |        | /                  | /   | / | / | / |     |           |
| 009        | MW16BB            |            | 944  |        | /                  | /   | / | / | / |     |           |
| 010        | MW16(BB)          |            | 944  |        | /                  | /   | / | / | / |     |           |
| 011        | MW16C             |            | 1007 |        | /                  | /   | / | / | / |     |           |
| 012        | MW-18A            |            | 1026 |        | /                  | /   | / | / | / |     |           |
| 013        | W-190925-PA-MW18B |            | 1023 |        | /                  | /   | / | / | / |     |           |

CLIENT COMMENTS: **\*no sample time on bottles**

LAB COMMENTS (Lab Use Only):

MS/MSD

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Samples on HOLD are subject to special pricing and release of liability

|                                     |                         |                                 |                         |
|-------------------------------------|-------------------------|---------------------------------|-------------------------|
| Relinquished By: <i>[Signature]</i> | Date/Time: 9/25/19 1530 | Received By:                    | Date/Time:              |
| Relinquished By: <i>[Signature]</i> | Date/Time: 9/26/19 0940 | Received By: <i>[Signature]</i> | Date/Time: 9/26/19 0940 |
| Relinquished By:                    | Date/Time:              | Received By:                    | Date/Time:              |
| Relinquished By:                    | Date/Time:              | Received By:                    | Date/Time:              |

PACE Project No. **40196011**

Receipt Temp = **20.1** °C

Sample Receipt pH **6.0** Adjusted

Cooler Custody Seal Present / Not Present **Intact / Not Intact**

(Please Print Clearly)

Company Name: **640**  
 Branch/Location: **St. Paul**  
 Project Contact: **Grant Anderson**  
 Phone: **651-639-0913**  
 Project Number: **1115796**  
 Project Name: **Rhinelander LP**  
 Project State: **WI**  
 Sampled By (Print): **Ryan Amat**  
 Sampled By (Sign): *[Signature]*  
 PO #: **-** Regulatory Program:



UPPER MIDWEST REGION  
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2  
 40196011  
 Page 83 of 86

### CHAIN OF CUSTODY

**\*Preservation Codes**  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH  
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?  
(YES/NO)  
 PRESERVATION  
(CODE)\*

| Y/N                | N                        | N             | Y                | Y     | N            |
|--------------------|--------------------------|---------------|------------------|-------|--------------|
| Pick Letter        | B                        | A             | D                | D     | C            |
| Analyses Requested | VOCs + Tetrachloroethene | Air: Chloride | Hardness, Fe, Mn | Boron | Ammonia, TKN |

Quote #: **see SSOW**  
 Mail To Contact:  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:

**Data Package Options** (billable)  
 EPA Level III  
 EPA Level IV

**MS/MSD**  
 On your sample (billable)  
 NOT needed on your sample

**Matrix Codes**  
 A = Air W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID   | COLLECTION |      | MATRIX |
|------------|-------------------|------------|------|--------|
|            |                   | DATE       | TIME |        |
| 014        | W-190925-PA-MW18C | 9/25/14    | 1138 | GW     |
| 015        | MW26B             |            | 1109 |        |
| 016        | MW26C             |            | 1110 |        |
| 017        | MW28A             |            | 1232 |        |
| 018        | MW27B             |            | 1236 |        |
| 019        | MW21A             |            | 1344 |        |
| 020        | MW2A              |            | 1406 |        |
| 021        | W-190925-PA-MW2B  |            | 1430 |        |
| 022        | trip blank        |            |      |        |

| CLIENT COMMENTS     | LAB COMMENTS (Lab Use Only) | Profile # |
|---------------------|-----------------------------|-----------|
| *no time on bottles |                             |           |
| effervescent        |                             |           |
| effervescent        |                             |           |

|   |   |   |   |
|---|---|---|---|
| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)<br>Date Needed: | Relinquished By: <i>[Signature]</i><br>Date/Time: <b>9/25/14 1530</b> | Received By: <i>[Signature]</i><br>Date/Time: <b>9/26/14 0940</b> | PACE Project No.<br><b>40196011</b><br>Receipt Temp = <b>20</b> °C<br>Sample Receipt pH<br><input checked="" type="checkbox"/> OK / Adjusted<br>Cooler Custody Seal<br><input checked="" type="checkbox"/> Present / Not Present<br><input checked="" type="checkbox"/> Intact / Not Intact |
| Transmit Prelim Rush Results by (complete what you want):   | Relinquished By: <b>Fed Ex</b><br>Date/Time: <b>9/26/14 0940</b>      | Received By: <i>[Signature]</i><br>Date/Time: <b>9/26/14 0940</b> |   |
| Email #1:   | Relinquished By:  | Received By:  |   |
| Email #2:   | Relinquished By:  | Received By:  |   |
| Telephone:  | Relinquished By:  | Received By:  |   |
| Fax:  | Relinquished By:  | Received By:  |   |
| Samples on HOLD are subject to special pricing and release of liability                           | Relinquished By:  | Received By:  |   |



# Sample Preservation Receipt Form

Pace Analytical Services, LLC  
1241 Bellevue Street, Suite 9  
Green Bay, WI 54302

Client Name: GH

Project # 40196011

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper: DU50891

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: AS

Date/Time:

| Pace Lab # | Glass |      |      |      |      |      | Plastic |      |      |      |      |      | Vials |      |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act. pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |      |      |    |  |              |
|------------|-------|------|------|------|------|------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|------|---------|------|------|--------------------|-------------|--------------------|-------------|------------|-------------------|-------------|------|------|----|--|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U    | BP1U | BP2N | BP2Z | BP3U | BP3B | BP3N  | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU    | WGFU | WPFU |                    |             |                    |             |            |                   |             | SP5T | ZPLC | GN |  |              |
| 001        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 002        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 003        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 004        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 005        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 006        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 007        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 008        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 009        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 010        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 011        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 012        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 013        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 014        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 015        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 016        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 017        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 018        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 019        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |
| 020        |       |      |      |      |      |      |         |      |      |      |      |      |       |      |      |      | 3    |      |      |      |         |      |      |                    |             |                    |             |            |                   |             |      |      |    |  | 2.5 / 5 / 10 |


Exceptions to preservation check: VOA Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:

Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

|                                |                                 |                              |                                    |
|--------------------------------|---------------------------------|------------------------------|------------------------------------|
| AG1U 1 liter amber glass       | BP1U 1 liter plastic unpres     | DG9A 40 mL amber ascorbic    | JGFU 4 oz amber jar unpres         |
| AG1H 1 liter amber glass HCL   | BP2N 500 mL plastic HNO3        | DG9T 40 mL amber Na Thio     | WGFU 4 oz clear jar unpres         |
| AG4S 125 mL amber glass H2SO4  | BP2Z 500 mL plastic NaOH, Znact | VG9U 40 mL clear vial unpres | WPFU 4 oz plastic jar unpres       |
| AG4U 120 mL amber glass unpres | BP3U 250 mL plastic unpres      | VG9H 40 mL clear vial HCL    |                                    |
| AG5U 100 mL amber glass unpres | BP3B 250 mL plastic NaOH        | VG9M 40 mL clear vial MeOH   | SP5T 120 mL plastic Na Thiosulfate |
| AG2S 500 mL amber glass H2SO4  | BP3N 250 mL plastic HNO3        | VG9D 40 mL clear vial DI     | ZPLC ziploc bag                    |
| BG3U 250 mL clear glass unpres | BP3S 250 mL plastic H2SO4       |                              | GN:                                |






|  |   |   |
|--|---|---|
| <br>1241 Bellevue Street, Green Bay, WI 54302 | Document Name:<br><b>Sample Condition Upon Receipt (SCUR)</b> | Document Revised: 25Apr2018                         |
|  | Document No.:<br><b>F-GB-C-031-Rev.07</b>                     | Issuing Authority:<br>Pace Green Bay Quality Office |

### Sample Condition Upon Receipt Form (SCUR)

**Client Name:** GHD  
**Courier:**  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_  
**Tracking #:** 8142 2668 2145  
**Custody Seal on Cooler/Box Present:**  yes  no    **Seals intact:**  yes  no  
**Custody Seal on Samples Present:**  yes  no    **Seals intact:**  yes  no  
**Packing Material:**  Bubble Wrap  Bubble Bags  None  Other  
**Thermometer Used** SR - NA    **Type of Ice:**  Wet  Blue  Dry  None     Samples on ice, cooling process has begun  
**Cooler Temperature**    Uncorr: 201    ICorr: \_\_\_\_\_  
**Temp Blank Present:**  yes  no    **Biological Tissue is Frozen:**  yes  no  
Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C.

Project #: \_\_\_\_\_  
**WO#: 40196011**  
  
 40196011

**Person examining contents:**  
 Date: 9/26/19  
 Initials: PG

|   |  |                       |
|---|--|-----------------------|
| Chain of Custody Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                    |
| Chain of Custody Filled Out:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                    |
| Chain of Custody Relinquished:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                    |
| Sampler Name & Signature on COC:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                    |
| Samples Arrived within Hold Time:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.                    |
| - VOA Samples frozen upon receipt   | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Date/Time: _____      |
| Short Hold Time Analysis (<72hr):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.                    |
| Rush Turn Around Time Requested:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 7.                    |
| Sufficient Volume:  |  | 8.                    |
| For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |                       |
| Correct Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.                    |
| -Pace Containers Used:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                       |
| -Pace IR Containers Used:   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                       |
| Containers Intact:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.                   |
| Filtered volume received for Dissolved tests  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.                   |
| Sample Labels match COC:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>No times -</u> |
| -Includes date/time/ID/Analysis    Matrix: <u>W</u>   |  | <u>9/26/19 PG</u>     |
| Trip Blank Present:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                   |
| Trip Blank Custody Seals Present  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                       |
| Pace Trip Blank Lot # (if purchased): <u>433</u>  |  |                       |

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

**Project Manager Review:** AC for DM    **Date:** 9/26/19

May 16, 2019

Grant Anderson  
GHD Services; St. Paul  
1801 Old Highway 8 Northwest  
Suite 114  
Saint Paul, MN 55112

RE: Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

Dear Grant Anderson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

| Lab ID      | Sample ID  | Matrix | Date Collected | Date Received  |
|-------------|------------|--------|----------------|----------------|
| 40186800001 | MW-16C     | Water  | 04/29/19 14:20 | 05/01/19 10:05 |
| 40186800002 | MW-16A     | Water  | 04/29/19 14:40 | 05/01/19 10:05 |
| 40186800003 | MW-16B     | Water  | 04/29/19 15:03 | 05/01/19 10:05 |
| 40186800004 | MW-16B DUP | Water  | 04/29/19 15:03 | 05/01/19 10:05 |
| 40186800005 | MW-20C     | Water  | 04/30/19 08:08 | 05/01/19 10:05 |
| 40186800006 | MW-20B     | Water  | 04/30/19 08:20 | 05/01/19 10:05 |
| 40186800007 | MW-20A     | Water  | 04/30/19 08:48 | 05/01/19 10:05 |
| 40186800008 | MW-20A DUP | Water  | 04/30/19 09:00 | 05/01/19 10:05 |
| 40186800009 | MW-2A      | Water  | 04/30/19 09:41 | 05/01/19 10:05 |
| 40186800010 | MW-2B      | Water  | 04/30/19 09:59 | 05/01/19 10:05 |
| 40186800011 | TRIP BLANK | Water  | 04/30/19 00:00 | 05/01/19 10:05 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

| Lab ID      | Sample ID  | Method    | Analysts | Analytes Reported |
|-------------|------------|-----------|----------|-------------------|
| 40186800001 | MW-16C     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800002 | MW-16A     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800003 | MW-16B     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800004 | MW-16B DUP | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800005 | MW-20C     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800006 | MW-20B     | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800007 | MW-20A     | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
| 40186800008 | MW-20A DUP | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           |          |                   |

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### SAMPLE ANALYTE COUNT

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

| Lab ID      | Sample ID  | Method    | Analysts | Analytes Reported |
|-------------|------------|-----------|----------|-------------------|
| 40186800009 | MW-2A      |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 6010  | TXW      | 4                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
|             |            | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 350.1 | TMK      | 1                 |
|             |            | EPA 351.2 | TMK      | 1                 |
| 40186800010 | MW-2B      | EPA 6010  | TXW      | 3                 |
|             |            | EPA 8260  | LAP      | 65                |
|             |            |           | RMW      | 6                 |
|             |            | EPA 300.0 | HMB      | 1                 |
| 40186800011 | TRIP BLANK | EPA 310.2 | DAW      | 1                 |
|             |            | EPA 8260  | LAP      | 65                |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16C**      **Lab ID: 40186800001**      Collected: 04/29/19 14:20      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>27200</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 16:57 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>2180</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 16:57 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>232</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 16:57 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.2</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 23:14 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:14 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 23:14 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 23:14 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 23:14 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 23:14 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:14 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 23:14 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 23:14 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 23:14 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:14 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:14 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:14 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 23:14 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 23:14 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 23:14 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 23:14 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 23:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:14 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 23:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:14 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 23:14 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:14 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:14 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:14 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 23:14 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:14 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:14 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 23:14 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 23:14 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 23:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 23:14 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 23:14 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 23:14 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 23:14 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 23:14 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 23:14 | 99-87-6    |      |

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

**Sample: MW-16C**      **Lab ID: 40186800001**      Collected: 04/29/19 14:20      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 23:14 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 23:14 | 1634-04-4   |      |
| Naphthalene   | 1.8J    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 23:14 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 23:14 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 23:14 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 23:14 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 23:14 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 23:14 | 127-18-4    |      |
| Tetrahydrofuran   | 9.0J    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 23:14 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 23:14 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 23:14 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 23:14 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 23:14 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 23:14 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:14 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 23:14 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 23:14 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 23:14 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 23:14 | 108-67-8    |      |
| Vinyl chloride  | 0.26J   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 23:14 | 75-01-4     |      |
| m&p-Xylene  | 0.89J   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 23:14 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:14 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 90      | %          | 70-130 |      | 1  |          | 05/02/19 23:14 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 105     | %          | 70-130 |      | 1  |          | 05/02/19 23:14 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 23:14 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 7.09    | Std. Units |        |      | 1  |          | 04/29/19 14:20 |             |      |
| Field Specific Conductance                                  | 776     | umhos/cm   |        |      | 1  |          | 04/29/19 14:20 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/29/19 14:20 | 7782-44-7   |      |
| REDOX   | -129    | mV         |        |      | 1  |          | 04/29/19 14:20 |             |      |
| Turbidity   | 5.5     | NTU        |        |      | 1  |          | 04/29/19 14:20 |             |      |
| Temperature, Water (C)                                      | 7.32    | deg C      |        |      | 1  |          | 04/29/19 14:20 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 43.9    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 18:16 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 232     | mg/L       | 23.5   | 7.0  | 1  |          | 05/03/19 12:54 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

**Sample: MW-16A**      **Lab ID: 4018680002**      Collected: 04/29/19 14:40      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>3690</b>     | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 16:50 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>4100</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 16:50 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>201</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 16:50 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.76J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 20:39 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 20:39 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 20:39 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 20:39 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 20:39 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 20:39 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 20:39 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 20:39 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 20:39 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 20:39 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 20:39 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 20:39 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 20:39 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 20:39 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 20:39 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 20:39 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 20:39 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 20:39 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 20:39 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 20:39 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 20:39 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 20:39 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 20:39 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 20:39 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 20:39 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 20:39 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 20:39 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 20:39 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 20:39 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 20:39 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 20:39 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 20:39 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 20:39 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 20:39 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 20:39 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 20:39 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 20:39 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 20:39 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 20:39 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 20:39 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16A**      **Lab ID: 40186800002**      Collected: 04/29/19 14:40      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 20:39 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 20:39 | 1634-04-4   |      |
| Naphthalene   | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 20:39 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 20:39 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 20:39 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 20:39 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 20:39 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 20:39 | 127-18-4    |      |
| Tetrahydrofuran   | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 20:39 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 20:39 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 20:39 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 20:39 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 20:39 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 20:39 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 20:39 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 20:39 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 20:39 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 20:39 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 20:39 | 108-67-8    |      |
| Vinyl chloride  | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 20:39 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 20:39 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 20:39 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 91      | %          | 70-130 |      | 1  |          | 05/02/19 20:39 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 106     | %          | 70-130 |      | 1  |          | 05/02/19 20:39 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 20:39 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 6.87    | Std. Units |        |      | 1  |          | 04/29/19 14:40 |             |      |
| Field Specific Conductance                                  | 500     | umhos/cm   |        |      | 1  |          | 04/29/19 14:40 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/29/19 14:40 | 7782-44-7   |      |
| REDOX   | -91     | mV         |        |      | 1  |          | 04/29/19 14:40 |             |      |
| Turbidity   | 8.5     | NTU        |        |      | 1  |          | 04/29/19 14:40 |             |      |
| Temperature, Water (C)                                      | 6.45    | deg C      |        |      | 1  |          | 04/29/19 14:40 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 25.8    | mg/L       | 2.0    | 0.50 | 1  |          | 05/09/19 18:30 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 211     | mg/L       | 47.0   | 14.1 | 2  |          | 05/03/19 12:55 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16B**      **Lab ID: 40186800003**      Collected: 04/29/19 15:03      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>34400</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:00 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>3690</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:00 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>221</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:00 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.0J</b>     | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 21:01 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:01 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 21:01 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 21:01 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 21:01 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 21:01 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:01 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 21:01 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 21:01 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 21:01 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:01 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:01 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:01 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 21:01 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 21:01 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 21:01 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 21:01 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 21:01 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:01 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:01 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:01 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 21:01 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:01 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 21:01 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:01 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:01 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:01 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:01 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 21:01 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:01 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:01 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 21:01 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 21:01 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 21:01 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 21:01 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 21:01 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 21:01 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 21:01 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 21:01 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 21:01 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16B**      **Lab ID: 40186800003**      Collected: 04/29/19 15:03      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 21:01 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 21:01 | 1634-04-4   |      |
| Naphthalene   | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 21:01 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 21:01 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 21:01 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 21:01 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 21:01 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 21:01 | 127-18-4    |      |
| Tetrahydrofuran   | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 21:01 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 21:01 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 21:01 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 21:01 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 21:01 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 21:01 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 21:01 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 21:01 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 21:01 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 21:01 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 21:01 | 108-67-8    |      |
| Vinyl chloride  | 0.24J   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 21:01 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 21:01 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 21:01 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 90      | %          | 70-130 |      | 1  |          | 05/02/19 21:01 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 105     | %          | 70-130 |      | 1  |          | 05/02/19 21:01 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 21:01 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 7.64    | Std. Units |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Field Specific Conductance                                  | 734     | umhos/cm   |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/29/19 15:03 | 7782-44-7   |      |
| REDOX   | -152    | mV         |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Turbidity   | 8       | NTU        |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Temperature, Water (C)                                      | 7.43    | deg C      |        |      | 1  |          | 04/29/19 15:03 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 36.4    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 19:56 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 224     | mg/L       | 23.5   | 7.0  | 1  |          | 05/03/19 13:00 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16B DUP**      **Lab ID: 40186800004**      Collected: 04/29/19 15:03      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>34100</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:02 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>3700</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:02 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>220</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:02 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.0</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 21:45 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:45 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 21:45 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 21:45 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 21:45 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 21:45 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:45 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 21:45 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 21:45 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 21:45 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:45 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:45 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:45 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 21:45 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 21:45 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 21:45 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 21:45 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 21:45 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:45 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:45 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:45 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 21:45 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:45 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 21:45 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>0.28J</b>    | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:45 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:45 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:45 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:45 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 21:45 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:45 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:45 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 21:45 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 21:45 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 21:45 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 21:45 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 21:45 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 21:45 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 21:45 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 21:45 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 21:45 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-16B DUP**      **Lab ID: 40186800004**      Collected: 04/29/19 15:03      Received: 05/01/19 10:05      Matrix: Water

| Parameters                     | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>                |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| Methylene Chloride             | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 05/02/19 21:45 | 75-09-2     |      |
| Methyl-tert-butyl ether        | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 05/02/19 21:45 | 1634-04-4   |      |
| Naphthalene                    | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 05/02/19 21:45 | 91-20-3     |      |
| n-Propylbenzene                | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 05/02/19 21:45 | 103-65-1    |      |
| Styrene                        | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 05/02/19 21:45 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 05/02/19 21:45 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 05/02/19 21:45 | 79-34-5     |      |
| Tetrachloroethene              | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 05/02/19 21:45 | 127-18-4    |      |
| Tetrahydrofuran                | <2.3    | ug/L                         | 20.0   | 2.3  | 1  |          | 05/02/19 21:45 | 109-99-9    |      |
| Toluene                        | <0.17   | ug/L                         | 5.0    | 0.17 | 1  |          | 05/02/19 21:45 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 05/02/19 21:45 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 05/02/19 21:45 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 05/02/19 21:45 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 05/02/19 21:45 | 79-00-5     |      |
| Trichloroethene                | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 05/02/19 21:45 | 79-01-6     |      |
| Trichlorofluoromethane         | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 05/02/19 21:45 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 05/02/19 21:45 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene         | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 05/02/19 21:45 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 05/02/19 21:45 | 108-67-8    |      |
| Vinyl chloride                 | 0.22J   | ug/L                         | 1.0    | 0.17 | 1  |          | 05/02/19 21:45 | 75-01-4     |      |
| m&p-Xylene                     | <0.47   | ug/L                         | 2.0    | 0.47 | 1  |          | 05/02/19 21:45 | 179601-23-1 |      |
| o-Xylene                       | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 05/02/19 21:45 | 95-47-6     |      |
| <b>Surrogates</b>              |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)       | 91      | %                            | 70-130 |      | 1  |          | 05/02/19 21:45 | 460-00-4    |      |
| Dibromofluoromethane (S)       | 107     | %                            | 70-130 |      | 1  |          | 05/02/19 21:45 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 98      | %                            | 70-130 |      | 1  |          | 05/02/19 21:45 | 2037-26-5   |      |
| <b>Field Data</b>              |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                       | 7.64    | Std. Units                   |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Field Specific Conductance     | 734     | umhos/cm                     |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Oxygen, Dissolved              | 0       | mg/L                         |        |      | 1  |          | 04/29/19 15:03 | 7782-44-7   |      |
| REDOX                          | -152    | mV                           |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Turbidity                      | 8       | NTU                          |        |      | 1  |          | 04/29/19 15:03 |             |      |
| Temperature, Water (C)         | 7.43    | deg C                        |        |      | 1  |          | 04/29/19 15:03 |             |      |
| <b>300.0 IC Anions 28 Days</b> |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                       | 36.7    | mg/L                         | 10.0   | 2.5  | 5  |          | 05/09/19 20:11 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>        |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3     | 232     | mg/L                         | 23.5   | 7.0  | 1  |          | 05/03/19 13:00 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20C**      **Lab ID: 40186800005**      Collected: 04/30/19 08:08      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>22200</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:05 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1460</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:05 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>188</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:05 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.94J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 22:07 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:07 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 22:07 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 22:07 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 22:07 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 22:07 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:07 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 22:07 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 22:07 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 22:07 | 56-23-5    |      |
| Chlorobenzene                      | <b>0.72J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:07 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:07 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:07 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 22:07 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 22:07 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 22:07 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 22:07 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 22:07 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:07 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:07 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:07 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 22:07 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:07 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 22:07 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:07 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:07 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:07 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:07 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 22:07 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:07 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:07 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 22:07 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 22:07 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 22:07 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 22:07 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 22:07 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 22:07 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 22:07 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 22:07 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 22:07 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20C**      **Lab ID: 40186800005**      Collected: 04/30/19 08:08      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 22:07 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 22:07 | 1634-04-4   |      |
| Naphthalene   | 5.1     | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 22:07 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 22:07 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 22:07 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 22:07 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 22:07 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 22:07 | 127-18-4    |      |
| Tetrahydrofuran   | 12.3J   | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 22:07 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 22:07 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 22:07 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 22:07 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 22:07 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 22:07 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 22:07 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 22:07 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 22:07 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 22:07 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 22:07 | 108-67-8    |      |
| Vinyl chloride  | 0.80J   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 22:07 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 22:07 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 22:07 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 90      | %          | 70-130 |      | 1  |          | 05/02/19 22:07 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 107     | %          | 70-130 |      | 1  |          | 05/02/19 22:07 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 22:07 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 7.02    | Std. Units |        |      | 1  |          | 04/30/19 08:08 |             |      |
| Field Specific Conductance                                  | 661     | umhos/cm   |        |      | 1  |          | 04/30/19 08:08 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/30/19 08:08 | 7782-44-7   |      |
| REDOX   | -89     | mV         |        |      | 1  |          | 04/30/19 08:08 |             |      |
| Turbidity   | 19.7    | NTU        |        |      | 1  |          | 04/30/19 08:08 |             |      |
| Temperature, Water (C)                                      | 6.76    | deg C      |        |      | 1  |          | 04/30/19 08:08 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 49.1    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 20:25 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 176     | mg/L       | 23.5   | 7.0  | 1  |          | 05/03/19 13:01 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20B**      **Lab ID: 40186800006**      Collected: 04/30/19 08:20      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>16800</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:07 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1040</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:07 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>158</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:07 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.70J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 23:36 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:36 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 23:36 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 23:36 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 23:36 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 23:36 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:36 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 23:36 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 23:36 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 23:36 | 56-23-5    |      |
| Chlorobenzene                      | <b>0.90J</b>    | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:36 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:36 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:36 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 23:36 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 23:36 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 23:36 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 23:36 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 23:36 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:36 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:36 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:36 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 23:36 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:36 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 23:36 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:36 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:36 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:36 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:36 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 23:36 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:36 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:36 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 23:36 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 23:36 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 23:36 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 23:36 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 23:36 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 23:36 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 23:36 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 23:36 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 23:36 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20B**      **Lab ID: 40186800006**      Collected: 04/30/19 08:20      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 23:36 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 23:36 | 1634-04-4   |      |
| Naphthalene   | 6.7     | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 23:36 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 23:36 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 23:36 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 23:36 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 23:36 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 23:36 | 127-18-4    |      |
| Tetrahydrofuran   | 8.0J    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 23:36 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 23:36 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 23:36 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 23:36 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 23:36 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 23:36 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:36 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 23:36 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 23:36 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 23:36 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 23:36 | 108-67-8    |      |
| Vinyl chloride  | 0.25J   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 23:36 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 23:36 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:36 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 91      | %          | 70-130 |      | 1  |          | 05/02/19 23:36 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 105     | %          | 70-130 |      | 1  |          | 05/02/19 23:36 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 23:36 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 7.1     | Std. Units |        |      | 1  |          | 04/30/19 08:20 |             |      |
| Field Specific Conductance                                  | 596     | umhos/cm   |        |      | 1  |          | 04/30/19 08:20 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/30/19 08:20 | 7782-44-7   |      |
| REDOX   | -100    | mV         |        |      | 1  |          | 04/30/19 08:20 |             |      |
| Turbidity   | 10.7    | NTU        |        |      | 1  |          | 04/30/19 08:20 |             |      |
| Temperature, Water (C)                                      | 4.91    | deg C      |        |      | 1  |          | 04/30/19 08:20 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 49.5    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 20:39 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 142     | mg/L       | 23.5   | 7.0  | 1  |          | 05/03/19 13:01 |             |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20A**      **Lab ID: 40186800007**      Collected: 04/30/19 08:48      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>505</b>      | ug/L                        | 40.0 | 9.7  | 1  |          | 05/03/19 17:10 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>75300</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:10 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>848</b>      | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:10 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>175</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:10 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>1.2</b>      | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 23:58 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:58 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 23:58 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 23:58 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 23:58 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 23:58 | 74-83-9    |      |
| n-Butylbenzene                     | <b>1.0J</b>     | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:58 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 23:58 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 23:58 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 23:58 | 56-23-5    |      |
| Chlorobenzene                      | <b>4.3</b>      | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:58 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:58 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 23:58 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 23:58 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 23:58 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 23:58 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 23:58 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 23:58 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:58 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:58 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 23:58 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 23:58 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>1.6J</b>     | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 23:58 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 23:58 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:58 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:58 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 23:58 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 23:58 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 23:58 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 23:58 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 23:58 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 23:58 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 23:58 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 23:58 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 23:58 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 23:58 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 23:58 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 23:58 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>3.2J</b>     | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 23:58 | 98-82-8    |      |

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20A**      **Lab ID: 40186800007**      Collected: 04/30/19 08:48      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| p-Isopropyltoluene  | <0.80   | ug/L       | 2.7    | 0.80 | 1  |          | 05/02/19 23:58 | 99-87-6     |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 23:58 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 23:58 | 1634-04-4   |      |
| Naphthalene   | 10.7    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 23:58 | 91-20-3     |      |
| n-Propylbenzene   | 2.2J    | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 23:58 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 23:58 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 23:58 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 23:58 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 23:58 | 127-18-4    |      |
| Tetrahydrofuran   | 6.8J    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 23:58 | 109-99-9    |      |
| Toluene   | 0.18J   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 23:58 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 23:58 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 23:58 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 23:58 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 23:58 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:58 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 23:58 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 23:58 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | 16.7    | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 23:58 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | 3.1     | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 23:58 | 108-67-8    |      |
| Vinyl chloride  | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 23:58 | 75-01-4     |      |
| m&p-Xylene  | 39.4    | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 23:58 | 179601-23-1 |      |
| o-Xylene  | 1.0     | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 23:58 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 94      | %          | 70-130 |      | 1  |          | 05/02/19 23:58 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 106     | %          | 70-130 |      | 1  |          | 05/02/19 23:58 | 1868-53-7   |      |
| Toluene-d8 (S)  | 97      | %          | 70-130 |      | 1  |          | 05/02/19 23:58 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 6.48    | Std. Units |        |      | 1  |          | 04/30/19 08:48 |             |      |
| Field Specific Conductance                                  | 905     | umhos/cm   |        |      | 1  |          | 04/30/19 08:48 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/30/19 08:48 | 7782-44-7   |      |
| REDOX   | -59     | mV         |        |      | 1  |          | 04/30/19 08:48 |             |      |
| Turbidity   | 18.6    | NTU        |        |      | 1  |          | 04/30/19 08:48 |             |      |
| Temperature, Water (C)                                      | 3.98    | deg C      |        |      | 1  |          | 04/30/19 08:48 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 10.8    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 20:54 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 255     | mg/L       | 23.5   | 7.0  | 1  |          | 05/03/19 13:02 |             |      |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20A DUP**      **Lab ID: 40186800008**      Collected: 04/30/19 09:00      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|---------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |         | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <35.4   | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:12 | 7439-89-6  |      |
| Manganese, Dissolved               | <1.1    | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:12 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | 0.36J   | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:12 |            |      |
| <b>8260 MSV</b>                    |         | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <0.25   | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 22:29 | 71-43-2    |      |
| Bromobenzene                       | <0.24   | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:29 | 108-86-1   |      |
| Bromochloromethane                 | <0.36   | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 22:29 | 74-97-5    |      |
| Bromodichloromethane               | <0.36   | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 22:29 | 75-27-4    |      |
| Bromoform                          | <4.0    | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 22:29 | 75-25-2    |      |
| Bromomethane                       | <0.97   | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 22:29 | 74-83-9    |      |
| n-Butylbenzene                     | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:29 | 104-51-8   |      |
| sec-Butylbenzene                   | <0.85   | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 22:29 | 135-98-8   |      |
| tert-Butylbenzene                  | <0.30   | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 22:29 | 98-06-6    |      |
| Carbon tetrachloride               | <0.17   | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 22:29 | 56-23-5    |      |
| Chlorobenzene                      | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:29 | 108-90-7   |      |
| Chloroethane                       | <1.3    | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:29 | 75-00-3    |      |
| Chloroform                         | <1.3    | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:29 | 67-66-3    |      |
| Chloromethane                      | <2.2    | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 22:29 | 74-87-3    |      |
| 2-Chlorotoluene                    | <0.93   | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 22:29 | 95-49-8    |      |
| 4-Chlorotoluene                    | <0.76   | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 22:29 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <1.8    | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 22:29 | 96-12-8    |      |
| Dibromochloromethane               | <2.6    | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 22:29 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <0.83   | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:29 | 106-93-4   |      |
| Dibromomethane                     | <0.94   | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:29 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <0.71   | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:29 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <0.63   | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 22:29 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <0.94   | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:29 | 106-46-7   |      |
| Dichlorodifluoromethane            | <0.50   | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 22:29 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <0.27   | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:29 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <0.28   | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:29 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <0.24   | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:29 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <0.27   | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:29 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <1.1    | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 22:29 | 156-60-5   |      |
| 1,2-Dichloropropane                | <0.28   | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:29 | 78-87-5    |      |
| 1,3-Dichloropropane                | <0.83   | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:29 | 142-28-9   |      |
| 2,2-Dichloropropane                | <2.3    | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 22:29 | 594-20-7   |      |
| 1,1-Dichloropropene                | <0.54   | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 22:29 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <3.6    | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 22:29 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <4.4    | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 22:29 | 10061-02-6 |      |
| Diisopropyl ether                  | <1.9    | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 22:29 | 108-20-3   |      |
| Ethylbenzene                       | <0.22   | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 22:29 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <1.2    | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 22:29 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <0.39   | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 22:29 | 98-82-8    |      |
| p-Isopropyltoluene                 | <0.80   | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 22:29 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-20A DUP**      **Lab ID: 40186800008**      Collected: 04/30/19 09:00      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 22:29 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 22:29 | 1634-04-4   |      |
| Naphthalene   | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 22:29 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 22:29 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 22:29 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 22:29 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 22:29 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 22:29 | 127-18-4    |      |
| Tetrahydrofuran   | <2.3    | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 22:29 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 22:29 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 22:29 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 22:29 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 22:29 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 22:29 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 22:29 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 22:29 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 22:29 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 22:29 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 22:29 | 108-67-8    |      |
| Vinyl chloride  | <0.17   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 22:29 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 22:29 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 22:29 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 90      | %          | 70-130 |      | 1  |          | 05/02/19 22:29 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 107     | %          | 70-130 |      | 1  |          | 05/02/19 22:29 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 22:29 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 6.48    | Std. Units |        |      | 1  |          | 04/30/19 09:00 |             |      |
| Field Specific Conductance                                  | 905     | umhos/cm   |        |      | 1  |          | 04/30/19 09:00 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/30/19 09:00 | 7782-44-7   |      |
| REDOX   | -59     | mV         |        |      | 1  |          | 04/30/19 09:00 |             |      |
| Turbidity   | 18.6    | NTU        |        |      | 1  |          | 04/30/19 09:00 |             |      |
| Temperature, Water (C)                                      | 3.98    | deg C      |        |      | 1  |          | 04/30/19 09:00 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | <0.50   | mg/L       | 2.0    | 0.50 | 1  |          | 05/09/19 21:08 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | <7.0    | mg/L       | 23.5   | 7.0  | 1  |          | 05/13/19 10:49 |             |      |

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-2A**      **Lab ID: 40186800009**      Collected: 04/30/19 09:41      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Boron, Dissolved                   | <b>677</b>      | ug/L                        | 40.0 | 9.7  | 1  |          | 05/03/19 17:20 | 7440-42-8  |      |
| Iron, Dissolved                    | <b>58300</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:20 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>760</b>      | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:20 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>499</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:20 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>13.8</b>     | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 22:52 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:52 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 22:52 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 22:52 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 22:52 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 22:52 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:52 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 22:52 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 22:52 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 22:52 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:52 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:52 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 22:52 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 22:52 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 22:52 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 22:52 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 22:52 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 22:52 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:52 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:52 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 22:52 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 22:52 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 22:52 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 22:52 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:52 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:52 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 22:52 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 22:52 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 22:52 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 22:52 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 22:52 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 22:52 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 22:52 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 22:52 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 22:52 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 22:52 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 22:52 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 22:52 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 22:52 | 98-82-8    |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-2A**      **Lab ID: 40186800009**      Collected: 04/30/19 09:41      Received: 05/01/19 10:05      Matrix: Water

| Parameters                     | Results | Units                        | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>                |         | Analytical Method: EPA 8260  |        |      |    |          |                |             |      |
| p-Isopropyltoluene             | <0.80   | ug/L                         | 2.7    | 0.80 | 1  |          | 05/02/19 22:52 | 99-87-6     |      |
| Methylene Chloride             | <0.58   | ug/L                         | 5.0    | 0.58 | 1  |          | 05/02/19 22:52 | 75-09-2     |      |
| Methyl-tert-butyl ether        | <1.2    | ug/L                         | 4.2    | 1.2  | 1  |          | 05/02/19 22:52 | 1634-04-4   |      |
| Naphthalene                    | <1.2    | ug/L                         | 5.0    | 1.2  | 1  |          | 05/02/19 22:52 | 91-20-3     |      |
| n-Propylbenzene                | <0.81   | ug/L                         | 5.0    | 0.81 | 1  |          | 05/02/19 22:52 | 103-65-1    |      |
| Styrene                        | <0.47   | ug/L                         | 1.6    | 0.47 | 1  |          | 05/02/19 22:52 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane      | <0.27   | ug/L                         | 1.0    | 0.27 | 1  |          | 05/02/19 22:52 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane      | <0.28   | ug/L                         | 1.0    | 0.28 | 1  |          | 05/02/19 22:52 | 79-34-5     |      |
| Tetrachloroethene              | <0.33   | ug/L                         | 1.1    | 0.33 | 1  |          | 05/02/19 22:52 | 127-18-4    |      |
| Tetrahydrofuran                | 85.9    | ug/L                         | 20.0   | 2.3  | 1  |          | 05/02/19 22:52 | 109-99-9    |      |
| Toluene                        | 0.19J   | ug/L                         | 5.0    | 0.17 | 1  |          | 05/02/19 22:52 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene         | <0.63   | ug/L                         | 5.0    | 0.63 | 1  |          | 05/02/19 22:52 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene         | <0.95   | ug/L                         | 5.0    | 0.95 | 1  |          | 05/02/19 22:52 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <0.24   | ug/L                         | 1.0    | 0.24 | 1  |          | 05/02/19 22:52 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <0.55   | ug/L                         | 5.0    | 0.55 | 1  |          | 05/02/19 22:52 | 79-00-5     |      |
| Trichloroethene                | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 05/02/19 22:52 | 79-01-6     |      |
| Trichlorofluoromethane         | <0.21   | ug/L                         | 1.0    | 0.21 | 1  |          | 05/02/19 22:52 | 75-69-4     |      |
| 1,2,3-Trichloropropane         | <0.59   | ug/L                         | 5.0    | 0.59 | 1  |          | 05/02/19 22:52 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene         | <0.84   | ug/L                         | 2.8    | 0.84 | 1  |          | 05/02/19 22:52 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <0.87   | ug/L                         | 2.9    | 0.87 | 1  |          | 05/02/19 22:52 | 108-67-8    |      |
| Vinyl chloride                 | <0.17   | ug/L                         | 1.0    | 0.17 | 1  |          | 05/02/19 22:52 | 75-01-4     |      |
| m&p-Xylene                     | 1.5J    | ug/L                         | 2.0    | 0.47 | 1  |          | 05/02/19 22:52 | 179601-23-1 |      |
| o-Xylene                       | <0.26   | ug/L                         | 1.0    | 0.26 | 1  |          | 05/02/19 22:52 | 95-47-6     |      |
| <b>Surrogates</b>              |         |                              |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)       | 91      | %                            | 70-130 |      | 1  |          | 05/02/19 22:52 | 460-00-4    |      |
| Dibromofluoromethane (S)       | 105     | %                            | 70-130 |      | 1  |          | 05/02/19 22:52 | 1868-53-7   |      |
| Toluene-d8 (S)                 | 98      | %                            | 70-130 |      | 1  |          | 05/02/19 22:52 | 2037-26-5   |      |
| <b>Field Data</b>              |         | Analytical Method:           |        |      |    |          |                |             |      |
| Field pH                       | 6.7     | Std. Units                   |        |      | 1  |          | 04/30/19 09:41 |             |      |
| Field Specific Conductance     | 1730    | umhos/cm                     |        |      | 1  |          | 04/30/19 09:41 |             |      |
| Oxygen, Dissolved              | 0       | mg/L                         |        |      | 1  |          | 04/30/19 09:41 | 7782-44-7   |      |
| REDOX                          | -63     | mV                           |        |      | 1  |          | 04/30/19 09:41 |             |      |
| Turbidity                      | 27.3    | NTU                          |        |      | 1  |          | 04/30/19 09:41 |             |      |
| Temperature, Water (C)         | 4.23    | deg C                        |        |      | 1  |          | 04/30/19 09:41 |             |      |
| <b>300.0 IC Anions 28 Days</b> |         | Analytical Method: EPA 300.0 |        |      |    |          |                |             |      |
| Chloride                       | 44.1    | mg/L                         | 10.0   | 2.5  | 5  |          | 05/09/19 21:22 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b>        |         | Analytical Method: EPA 310.2 |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3     | 734     | mg/L                         | 47.0   | 14.1 | 2  |          | 05/03/19 13:23 |             |      |
| <b>350.1 Ammonia</b>           |         | Analytical Method: EPA 350.1 |        |      |    |          |                |             |      |
| Nitrogen, Ammonia              | 96.9    | mg/L                         | 2.5    | 1.2  | 5  |          | 05/09/19 18:27 | 7664-41-7   |      |

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

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**Sample: MW-2A**      **Lab ID: 40186800009**      Collected: 04/30/19 09:41      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results     | Units | LOQ  | LOD | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|---|-------------|-------|------|-----|----|----------------|----------------|-----------|------|
| <b>351.2 Total Kjeldahl Nitrogen</b>                          |             |       |      |     |    |                |                |           |      |
| Analytical Method: EPA 351.2    Preparation Method: EPA 351.2 |             |       |      |     |    |                |                |           |      |
| Nitrogen, Kjeldahl, Total                                     | <b>96.0</b> | mg/L  | 14.6 | 4.4 | 20 | 05/08/19 11:10 | 05/08/19 16:37 | 7727-37-9 |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-2B**      **Lab ID: 40186800010**      Collected: 04/30/19 09:59      Received: 05/01/19 10:05      Matrix: Water

| Parameters                         | Results         | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------------|-----------------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b>     |                 | Analytical Method: EPA 6010 |      |      |    |          |                |            |      |
| Iron, Dissolved                    | <b>22200</b>    | ug/L                        | 118  | 35.4 | 1  |          | 05/03/19 17:22 | 7439-89-6  |      |
| Manganese, Dissolved               | <b>1220</b>     | ug/L                        | 5.0  | 1.1  | 1  |          | 05/03/19 17:22 | 7439-96-5  |      |
| Total Hardness by 2340B, Dissolved | <b>182</b>      | mg/L                        | 2.0  | 0.15 | 1  |          | 05/03/19 17:22 |            |      |
| <b>8260 MSV</b>                    |                 | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                            | <b>0.86J</b>    | ug/L                        | 1.0  | 0.25 | 1  |          | 05/02/19 21:23 | 71-43-2    |      |
| Bromobenzene                       | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:23 | 108-86-1   |      |
| Bromochloromethane                 | <b>&lt;0.36</b> | ug/L                        | 5.0  | 0.36 | 1  |          | 05/02/19 21:23 | 74-97-5    |      |
| Bromodichloromethane               | <b>&lt;0.36</b> | ug/L                        | 1.2  | 0.36 | 1  |          | 05/02/19 21:23 | 75-27-4    |      |
| Bromoform                          | <b>&lt;4.0</b>  | ug/L                        | 13.2 | 4.0  | 1  |          | 05/02/19 21:23 | 75-25-2    |      |
| Bromomethane                       | <b>&lt;0.97</b> | ug/L                        | 5.0  | 0.97 | 1  |          | 05/02/19 21:23 | 74-83-9    |      |
| n-Butylbenzene                     | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:23 | 104-51-8   |      |
| sec-Butylbenzene                   | <b>&lt;0.85</b> | ug/L                        | 5.0  | 0.85 | 1  |          | 05/02/19 21:23 | 135-98-8   |      |
| tert-Butylbenzene                  | <b>&lt;0.30</b> | ug/L                        | 1.0  | 0.30 | 1  |          | 05/02/19 21:23 | 98-06-6    |      |
| Carbon tetrachloride               | <b>&lt;0.17</b> | ug/L                        | 1.0  | 0.17 | 1  |          | 05/02/19 21:23 | 56-23-5    |      |
| Chlorobenzene                      | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:23 | 108-90-7   |      |
| Chloroethane                       | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:23 | 75-00-3    |      |
| Chloroform                         | <b>&lt;1.3</b>  | ug/L                        | 5.0  | 1.3  | 1  |          | 05/02/19 21:23 | 67-66-3    |      |
| Chloromethane                      | <b>&lt;2.2</b>  | ug/L                        | 7.3  | 2.2  | 1  |          | 05/02/19 21:23 | 74-87-3    |      |
| 2-Chlorotoluene                    | <b>&lt;0.93</b> | ug/L                        | 5.0  | 0.93 | 1  |          | 05/02/19 21:23 | 95-49-8    |      |
| 4-Chlorotoluene                    | <b>&lt;0.76</b> | ug/L                        | 2.5  | 0.76 | 1  |          | 05/02/19 21:23 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane        | <b>&lt;1.8</b>  | ug/L                        | 5.9  | 1.8  | 1  |          | 05/02/19 21:23 | 96-12-8    |      |
| Dibromochloromethane               | <b>&lt;2.6</b>  | ug/L                        | 8.7  | 2.6  | 1  |          | 05/02/19 21:23 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)            | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:23 | 106-93-4   |      |
| Dibromomethane                     | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:23 | 74-95-3    |      |
| 1,2-Dichlorobenzene                | <b>&lt;0.71</b> | ug/L                        | 2.4  | 0.71 | 1  |          | 05/02/19 21:23 | 95-50-1    |      |
| 1,3-Dichlorobenzene                | <b>&lt;0.63</b> | ug/L                        | 2.1  | 0.63 | 1  |          | 05/02/19 21:23 | 541-73-1   |      |
| 1,4-Dichlorobenzene                | <b>&lt;0.94</b> | ug/L                        | 3.1  | 0.94 | 1  |          | 05/02/19 21:23 | 106-46-7   |      |
| Dichlorodifluoromethane            | <b>&lt;0.50</b> | ug/L                        | 5.0  | 0.50 | 1  |          | 05/02/19 21:23 | 75-71-8    |      |
| 1,1-Dichloroethane                 | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:23 | 75-34-3    |      |
| 1,2-Dichloroethane                 | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:23 | 107-06-2   |      |
| 1,1-Dichloroethene                 | <b>&lt;0.24</b> | ug/L                        | 1.0  | 0.24 | 1  |          | 05/02/19 21:23 | 75-35-4    |      |
| cis-1,2-Dichloroethene             | <b>&lt;0.27</b> | ug/L                        | 1.0  | 0.27 | 1  |          | 05/02/19 21:23 | 156-59-2   |      |
| trans-1,2-Dichloroethene           | <b>&lt;1.1</b>  | ug/L                        | 3.6  | 1.1  | 1  |          | 05/02/19 21:23 | 156-60-5   |      |
| 1,2-Dichloropropane                | <b>&lt;0.28</b> | ug/L                        | 1.0  | 0.28 | 1  |          | 05/02/19 21:23 | 78-87-5    |      |
| 1,3-Dichloropropane                | <b>&lt;0.83</b> | ug/L                        | 2.8  | 0.83 | 1  |          | 05/02/19 21:23 | 142-28-9   |      |
| 2,2-Dichloropropane                | <b>&lt;2.3</b>  | ug/L                        | 7.6  | 2.3  | 1  |          | 05/02/19 21:23 | 594-20-7   |      |
| 1,1-Dichloropropene                | <b>&lt;0.54</b> | ug/L                        | 1.8  | 0.54 | 1  |          | 05/02/19 21:23 | 563-58-6   |      |
| cis-1,3-Dichloropropene            | <b>&lt;3.6</b>  | ug/L                        | 12.1 | 3.6  | 1  |          | 05/02/19 21:23 | 10061-01-5 |      |
| trans-1,3-Dichloropropene          | <b>&lt;4.4</b>  | ug/L                        | 14.6 | 4.4  | 1  |          | 05/02/19 21:23 | 10061-02-6 |      |
| Diisopropyl ether                  | <b>&lt;1.9</b>  | ug/L                        | 6.3  | 1.9  | 1  |          | 05/02/19 21:23 | 108-20-3   |      |
| Ethylbenzene                       | <b>&lt;0.22</b> | ug/L                        | 1.0  | 0.22 | 1  |          | 05/02/19 21:23 | 100-41-4   |      |
| Hexachloro-1,3-butadiene           | <b>&lt;1.2</b>  | ug/L                        | 5.0  | 1.2  | 1  |          | 05/02/19 21:23 | 87-68-3    |      |
| Isopropylbenzene (Cumene)          | <b>&lt;0.39</b> | ug/L                        | 5.0  | 0.39 | 1  |          | 05/02/19 21:23 | 98-82-8    |      |
| p-Isopropyltoluene                 | <b>&lt;0.80</b> | ug/L                        | 2.7  | 0.80 | 1  |          | 05/02/19 21:23 | 99-87-6    |      |

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: MW-2B**      **Lab ID: 40186800010**      Collected: 04/30/19 09:59      Received: 05/01/19 10:05      Matrix: Water

| Parameters  | Results | Units      | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260                 |         |            |        |      |    |          |                |             |      |
| Methylene Chloride  | <0.58   | ug/L       | 5.0    | 0.58 | 1  |          | 05/02/19 21:23 | 75-09-2     |      |
| Methyl-tert-butyl ether                                     | <1.2    | ug/L       | 4.2    | 1.2  | 1  |          | 05/02/19 21:23 | 1634-04-4   |      |
| Naphthalene   | <1.2    | ug/L       | 5.0    | 1.2  | 1  |          | 05/02/19 21:23 | 91-20-3     |      |
| n-Propylbenzene   | <0.81   | ug/L       | 5.0    | 0.81 | 1  |          | 05/02/19 21:23 | 103-65-1    |      |
| Styrene   | <0.47   | ug/L       | 1.6    | 0.47 | 1  |          | 05/02/19 21:23 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                                   | <0.27   | ug/L       | 1.0    | 0.27 | 1  |          | 05/02/19 21:23 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                                   | <0.28   | ug/L       | 1.0    | 0.28 | 1  |          | 05/02/19 21:23 | 79-34-5     |      |
| Tetrachloroethene   | <0.33   | ug/L       | 1.1    | 0.33 | 1  |          | 05/02/19 21:23 | 127-18-4    |      |
| Tetrahydrofuran   | 16.0J   | ug/L       | 20.0   | 2.3  | 1  |          | 05/02/19 21:23 | 109-99-9    |      |
| Toluene   | <0.17   | ug/L       | 5.0    | 0.17 | 1  |          | 05/02/19 21:23 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                                      | <0.63   | ug/L       | 5.0    | 0.63 | 1  |          | 05/02/19 21:23 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                                      | <0.95   | ug/L       | 5.0    | 0.95 | 1  |          | 05/02/19 21:23 | 120-82-1    |      |
| 1,1,1-Trichloroethane                                       | <0.24   | ug/L       | 1.0    | 0.24 | 1  |          | 05/02/19 21:23 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                       | <0.55   | ug/L       | 5.0    | 0.55 | 1  |          | 05/02/19 21:23 | 79-00-5     |      |
| Trichloroethene   | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 21:23 | 79-01-6     |      |
| Trichlorofluoromethane                                      | <0.21   | ug/L       | 1.0    | 0.21 | 1  |          | 05/02/19 21:23 | 75-69-4     |      |
| 1,2,3-Trichloropropane                                      | <0.59   | ug/L       | 5.0    | 0.59 | 1  |          | 05/02/19 21:23 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                                      | <0.84   | ug/L       | 2.8    | 0.84 | 1  |          | 05/02/19 21:23 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                      | <0.87   | ug/L       | 2.9    | 0.87 | 1  |          | 05/02/19 21:23 | 108-67-8    |      |
| Vinyl chloride  | 0.42J   | ug/L       | 1.0    | 0.17 | 1  |          | 05/02/19 21:23 | 75-01-4     |      |
| m&p-Xylene  | <0.47   | ug/L       | 2.0    | 0.47 | 1  |          | 05/02/19 21:23 | 179601-23-1 |      |
| o-Xylene  | <0.26   | ug/L       | 1.0    | 0.26 | 1  |          | 05/02/19 21:23 | 95-47-6     |      |
| <b>Surrogates</b>   |         |            |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                    | 91      | %          | 70-130 |      | 1  |          | 05/02/19 21:23 | 460-00-4    |      |
| Dibromofluoromethane (S)                                    | 105     | %          | 70-130 |      | 1  |          | 05/02/19 21:23 | 1868-53-7   |      |
| Toluene-d8 (S)  | 98      | %          | 70-130 |      | 1  |          | 05/02/19 21:23 | 2037-26-5   |      |
| <b>Field Data</b> Analytical Method:                        |         |            |        |      |    |          |                |             |      |
| Field pH  | 7.11    | Std. Units |        |      | 1  |          | 04/30/19 09:59 |             |      |
| Field Specific Conductance                                  | 578     | umhos/cm   |        |      | 1  |          | 04/30/19 09:59 |             |      |
| Oxygen, Dissolved   | 0       | mg/L       |        |      | 1  |          | 04/30/19 09:59 | 7782-44-7   |      |
| REDOX   | -112    | mV         |        |      | 1  |          | 04/30/19 09:59 |             |      |
| Turbidity   | 15.2    | NTU        |        |      | 1  |          | 04/30/19 09:59 |             |      |
| Temperature, Water (C)                                      | 4.7     | deg C      |        |      | 1  |          | 04/30/19 09:59 |             |      |
| <b>300.0 IC Anions 28 Days</b> Analytical Method: EPA 300.0 |         |            |        |      |    |          |                |             |      |
| Chloride  | 28.3    | mg/L       | 10.0   | 2.5  | 5  |          | 05/09/19 21:37 | 16887-00-6  |      |
| <b>310.2 Alkalinity</b> Analytical Method: EPA 310.2        |         |            |        |      |    |          |                |             |      |
| Alkalinity, Total as CaCO3                                  | 214     | mg/L       | 47.0   | 14.1 | 2  |          | 05/03/19 13:53 |             |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: TRIP BLANK**      **Lab ID: 40186800011**      Collected: 04/30/19 00:00      Received: 05/01/19 10:05      Matrix: Water

| Parameters                                  | Results | Units | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |      |      |    |          |                |            |      |
| Benzene                                     | <0.25   | ug/L  | 1.0  | 0.25 | 1  |          | 05/02/19 19:55 | 71-43-2    |      |
| Bromobenzene                                | <0.24   | ug/L  | 1.0  | 0.24 | 1  |          | 05/02/19 19:55 | 108-86-1   |      |
| Bromochloromethane                          | <0.36   | ug/L  | 5.0  | 0.36 | 1  |          | 05/02/19 19:55 | 74-97-5    |      |
| Bromodichloromethane                        | <0.36   | ug/L  | 1.2  | 0.36 | 1  |          | 05/02/19 19:55 | 75-27-4    |      |
| Bromoform                                   | <4.0    | ug/L  | 13.2 | 4.0  | 1  |          | 05/02/19 19:55 | 75-25-2    |      |
| Bromomethane                                | <0.97   | ug/L  | 5.0  | 0.97 | 1  |          | 05/02/19 19:55 | 74-83-9    |      |
| n-Butylbenzene                              | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 05/02/19 19:55 | 104-51-8   |      |
| sec-Butylbenzene                            | <0.85   | ug/L  | 5.0  | 0.85 | 1  |          | 05/02/19 19:55 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.30   | ug/L  | 1.0  | 0.30 | 1  |          | 05/02/19 19:55 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.17   | ug/L  | 1.0  | 0.17 | 1  |          | 05/02/19 19:55 | 56-23-5    |      |
| Chlorobenzene                               | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 05/02/19 19:55 | 108-90-7   |      |
| Chloroethane                                | <1.3    | ug/L  | 5.0  | 1.3  | 1  |          | 05/02/19 19:55 | 75-00-3    |      |
| Chloroform                                  | <1.3    | ug/L  | 5.0  | 1.3  | 1  |          | 05/02/19 19:55 | 67-66-3    |      |
| Chloromethane                               | <2.2    | ug/L  | 7.3  | 2.2  | 1  |          | 05/02/19 19:55 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.93   | ug/L  | 5.0  | 0.93 | 1  |          | 05/02/19 19:55 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.76   | ug/L  | 2.5  | 0.76 | 1  |          | 05/02/19 19:55 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <1.8    | ug/L  | 5.9  | 1.8  | 1  |          | 05/02/19 19:55 | 96-12-8    |      |
| Dibromochloromethane                        | <2.6    | ug/L  | 8.7  | 2.6  | 1  |          | 05/02/19 19:55 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.83   | ug/L  | 2.8  | 0.83 | 1  |          | 05/02/19 19:55 | 106-93-4   |      |
| Dibromomethane                              | <0.94   | ug/L  | 3.1  | 0.94 | 1  |          | 05/02/19 19:55 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.71   | ug/L  | 2.4  | 0.71 | 1  |          | 05/02/19 19:55 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.63   | ug/L  | 2.1  | 0.63 | 1  |          | 05/02/19 19:55 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.94   | ug/L  | 3.1  | 0.94 | 1  |          | 05/02/19 19:55 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.50   | ug/L  | 5.0  | 0.50 | 1  |          | 05/02/19 19:55 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 05/02/19 19:55 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 05/02/19 19:55 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.24   | ug/L  | 1.0  | 0.24 | 1  |          | 05/02/19 19:55 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 05/02/19 19:55 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <1.1    | ug/L  | 3.6  | 1.1  | 1  |          | 05/02/19 19:55 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.28   | ug/L  | 1.0  | 0.28 | 1  |          | 05/02/19 19:55 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.83   | ug/L  | 2.8  | 0.83 | 1  |          | 05/02/19 19:55 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <2.3    | ug/L  | 7.6  | 2.3  | 1  |          | 05/02/19 19:55 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.54   | ug/L  | 1.8  | 0.54 | 1  |          | 05/02/19 19:55 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <3.6    | ug/L  | 12.1 | 3.6  | 1  |          | 05/02/19 19:55 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <4.4    | ug/L  | 14.6 | 4.4  | 1  |          | 05/02/19 19:55 | 10061-02-6 |      |
| Diisopropyl ether                           | <1.9    | ug/L  | 6.3  | 1.9  | 1  |          | 05/02/19 19:55 | 108-20-3   |      |
| Ethylbenzene                                | <0.22   | ug/L  | 1.0  | 0.22 | 1  |          | 05/02/19 19:55 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <1.2    | ug/L  | 5.0  | 1.2  | 1  |          | 05/02/19 19:55 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.39   | ug/L  | 5.0  | 0.39 | 1  |          | 05/02/19 19:55 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.80   | ug/L  | 2.7  | 0.80 | 1  |          | 05/02/19 19:55 | 99-87-6    |      |
| Methylene Chloride                          | <0.58   | ug/L  | 5.0  | 0.58 | 1  |          | 05/02/19 19:55 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <1.2    | ug/L  | 4.2  | 1.2  | 1  |          | 05/02/19 19:55 | 1634-04-4  |      |
| Naphthalene                                 | <1.2    | ug/L  | 5.0  | 1.2  | 1  |          | 05/02/19 19:55 | 91-20-3    |      |
| n-Propylbenzene                             | <0.81   | ug/L  | 5.0  | 0.81 | 1  |          | 05/02/19 19:55 | 103-65-1   |      |
| Styrene                                     | <0.47   | ug/L  | 1.6  | 0.47 | 1  |          | 05/02/19 19:55 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.27   | ug/L  | 1.0  | 0.27 | 1  |          | 05/02/19 19:55 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

**Sample: TRIP BLANK**      **Lab ID: 40186800011**      Collected: 04/30/19 00:00      Received: 05/01/19 10:05      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane                   | <0.28   | ug/L  | 1.0    | 0.28 | 1  |          | 05/02/19 19:55 | 79-34-5     |      |
| Tetrachloroethene                           | <0.33   | ug/L  | 1.1    | 0.33 | 1  |          | 05/02/19 19:55 | 127-18-4    |      |
| Tetrahydrofuran                             | <2.3    | ug/L  | 20.0   | 2.3  | 1  |          | 05/02/19 19:55 | 109-99-9    |      |
| Toluene                                     | <0.17   | ug/L  | 5.0    | 0.17 | 1  |          | 05/02/19 19:55 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <0.63   | ug/L  | 5.0    | 0.63 | 1  |          | 05/02/19 19:55 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <0.95   | ug/L  | 5.0    | 0.95 | 1  |          | 05/02/19 19:55 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.24   | ug/L  | 1.0    | 0.24 | 1  |          | 05/02/19 19:55 | 71-55-6     |      |
| 1,1,2-Trichloroethane                       | <0.55   | ug/L  | 5.0    | 0.55 | 1  |          | 05/02/19 19:55 | 79-00-5     |      |
| Trichloroethene                             | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 05/02/19 19:55 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.21   | ug/L  | 1.0    | 0.21 | 1  |          | 05/02/19 19:55 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.59   | ug/L  | 5.0    | 0.59 | 1  |          | 05/02/19 19:55 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.84   | ug/L  | 2.8    | 0.84 | 1  |          | 05/02/19 19:55 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.87   | ug/L  | 2.9    | 0.87 | 1  |          | 05/02/19 19:55 | 108-67-8    |      |
| Vinyl chloride                              | <0.17   | ug/L  | 1.0    | 0.17 | 1  |          | 05/02/19 19:55 | 75-01-4     |      |
| m&p-Xylene                                  | <0.47   | ug/L  | 2.0    | 0.47 | 1  |          | 05/02/19 19:55 | 179601-23-1 |      |
| o-Xylene                                    | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 05/02/19 19:55 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 92      | %     | 70-130 |      | 1  |          | 05/02/19 19:55 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 104     | %     | 70-130 |      | 1  |          | 05/02/19 19:55 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 99      | %     | 70-130 |      | 1  |          | 05/02/19 19:55 | 2037-26-5   |      |

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

|                         |  |                       |                              |
|-------------------------|--|-----------------------|------------------------------|
| QC Batch:               | 320374   | Analysis Method:      | EPA 6010                     |
| QC Batch Method:        | EPA 6010   | Analysis Description: | ICP Metals, Trace, Dissolved |
| Associated Lab Samples: | 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010 |                       |                              |

|                         |  |         |       |
|-------------------------|--|---------|-------|
| METHOD BLANK:           | 1861263  | Matrix: | Water |
| Associated Lab Samples: | 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010 |         |       |

| Parameter                          | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------------------|-------|--------------|-----------------|----------------|------------|
| Boron, Dissolved                   | ug/L  | <9.7         | 40.0            | 05/03/19 16:40 |            |
| Iron, Dissolved                    | ug/L  | <35.4        | 118             | 05/03/19 16:40 |            |
| Manganese, Dissolved               | ug/L  | <1.1         | 5.0             | 05/03/19 16:40 |            |
| Total Hardness by 2340B, Dissolved | mg/L  | 0.61J        | 2.0             | 05/03/19 16:40 |            |

LABORATORY CONTROL SAMPLE: 1861264

| Parameter                          | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Boron, Dissolved                   | ug/L  | 500         | 485        | 97        | 80-120       |            |
| Iron, Dissolved                    | ug/L  | 5000        | 4910       | 98        | 80-120       |            |
| Manganese, Dissolved               | ug/L  | 500         | 493        | 99        | 80-120       |            |
| Total Hardness by 2340B, Dissolved | mg/L  |             | 32.5       |           |              |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1861267 1861268

| Parameter                          | Units | 1861267            |                | 1861268         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|------------------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
|                                    |       | 40186800002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result |          |           |              |        |         |      |
| Boron, Dissolved                   | ug/L  | 192                | 500            | 500             | 685       | 678      | 99        | 97           | 75-125 | 1       | 20   |
| Iron, Dissolved                    | ug/L  | 3690               | 5000           | 5000            | 8540      | 8550     | 97        | 97           | 75-125 | 0       | 20   |
| Manganese, Dissolved               | ug/L  | 4100               | 500            | 500             | 4480      | 4480     | 77        | 77           | 75-125 | 0       | 20   |
| Total Hardness by 2340B, Dissolved | mg/L  | 201                |                |                 | 228       | 227      |           |              |        | 0       | 20   |

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**QUALITY CONTROL DATA**

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

QC Batch: 320090 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV

Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010, 40186800011

METHOD BLANK: 1859706 Matrix: Water

Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010, 40186800011

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.27        | 1.0             | 05/02/19 16:37 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.24        | 1.0             | 05/02/19 16:37 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28        | 1.0             | 05/02/19 16:37 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.55        | 5.0             | 05/02/19 16:37 |            |
| 1,1-Dichloroethane          | ug/L  | <0.27        | 1.0             | 05/02/19 16:37 |            |
| 1,1-Dichloroethene          | ug/L  | <0.24        | 1.0             | 05/02/19 16:37 |            |
| 1,1-Dichloropropene         | ug/L  | <0.54        | 1.8             | 05/02/19 16:37 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.63        | 5.0             | 05/02/19 16:37 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.59        | 5.0             | 05/02/19 16:37 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95        | 5.0             | 05/02/19 16:37 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.84        | 2.8             | 05/02/19 16:37 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8         | 5.9             | 05/02/19 16:37 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83        | 2.8             | 05/02/19 16:37 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.71        | 2.4             | 05/02/19 16:37 |            |
| 1,2-Dichloroethane          | ug/L  | <0.28        | 1.0             | 05/02/19 16:37 |            |
| 1,2-Dichloropropane         | ug/L  | <0.28        | 1.0             | 05/02/19 16:37 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.87        | 2.9             | 05/02/19 16:37 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.63        | 2.1             | 05/02/19 16:37 |            |
| 1,3-Dichloropropane         | ug/L  | <0.83        | 2.8             | 05/02/19 16:37 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.94        | 3.1             | 05/02/19 16:37 |            |
| 2,2-Dichloropropane         | ug/L  | <2.3         | 7.6             | 05/02/19 16:37 |            |
| 2-Chlorotoluene             | ug/L  | <0.93        | 5.0             | 05/02/19 16:37 |            |
| 4-Chlorotoluene             | ug/L  | <0.76        | 2.5             | 05/02/19 16:37 |            |
| Benzene                     | ug/L  | <0.25        | 1.0             | 05/02/19 16:37 |            |
| Bromobenzene                | ug/L  | <0.24        | 1.0             | 05/02/19 16:37 |            |
| Bromochloromethane          | ug/L  | <0.36        | 5.0             | 05/02/19 16:37 |            |
| Bromodichloromethane        | ug/L  | <0.36        | 1.2             | 05/02/19 16:37 |            |
| Bromoform                   | ug/L  | <4.0         | 13.2            | 05/02/19 16:37 |            |
| Bromomethane                | ug/L  | <0.97        | 5.0             | 05/02/19 16:37 |            |
| Carbon tetrachloride        | ug/L  | <0.17        | 1.0             | 05/02/19 16:37 |            |
| Chlorobenzene               | ug/L  | <0.71        | 2.4             | 05/02/19 16:37 |            |
| Chloroethane                | ug/L  | <1.3         | 5.0             | 05/02/19 16:37 |            |
| Chloroform                  | ug/L  | <1.3         | 5.0             | 05/02/19 16:37 |            |
| Chloromethane               | ug/L  | <2.2         | 7.3             | 05/02/19 16:37 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.27        | 1.0             | 05/02/19 16:37 |            |
| cis-1,3-Dichloropropene     | ug/L  | <3.6         | 12.1            | 05/02/19 16:37 |            |
| Dibromochloromethane        | ug/L  | <2.6         | 8.7             | 05/02/19 16:37 |            |
| Dibromomethane              | ug/L  | <0.94        | 3.1             | 05/02/19 16:37 |            |
| Dichlorodifluoromethane     | ug/L  | <0.50        | 5.0             | 05/02/19 16:37 |            |
| Diisopropyl ether           | ug/L  | <1.9         | 6.3             | 05/02/19 16:37 |            |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

METHOD BLANK: 1859706

Matrix: Water

Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010, 40186800011

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene              | ug/L  | <0.22        | 1.0             | 05/02/19 16:37 |            |
| Hexachloro-1,3-butadiene  | ug/L  | <1.2         | 5.0             | 05/02/19 16:37 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.39        | 5.0             | 05/02/19 16:37 |            |
| m&p-Xylene                | ug/L  | <0.47        | 2.0             | 05/02/19 16:37 |            |
| Methyl-tert-butyl ether   | ug/L  | <1.2         | 4.2             | 05/02/19 16:37 |            |
| Methylene Chloride        | ug/L  | <0.58        | 5.0             | 05/02/19 16:37 |            |
| n-Butylbenzene            | ug/L  | <0.71        | 2.4             | 05/02/19 16:37 |            |
| n-Propylbenzene           | ug/L  | <0.81        | 5.0             | 05/02/19 16:37 |            |
| Naphthalene               | ug/L  | <1.2         | 5.0             | 05/02/19 16:37 |            |
| o-Xylene                  | ug/L  | <0.26        | 1.0             | 05/02/19 16:37 |            |
| p-Isopropyltoluene        | ug/L  | <0.80        | 2.7             | 05/02/19 16:37 |            |
| sec-Butylbenzene          | ug/L  | <0.85        | 5.0             | 05/02/19 16:37 |            |
| Styrene                   | ug/L  | <0.47        | 1.6             | 05/02/19 16:37 |            |
| tert-Butylbenzene         | ug/L  | <0.30        | 1.0             | 05/02/19 16:37 |            |
| Tetrachloroethene         | ug/L  | <0.33        | 1.1             | 05/02/19 16:37 |            |
| Tetrahydrofuran           | ug/L  | <2.3         | 20.0            | 05/02/19 16:37 |            |
| Toluene                   | ug/L  | <0.17        | 5.0             | 05/02/19 16:37 |            |
| trans-1,2-Dichloroethene  | ug/L  | <1.1         | 3.6             | 05/02/19 16:37 |            |
| trans-1,3-Dichloropropene | ug/L  | <4.4         | 14.6            | 05/02/19 16:37 |            |
| Trichloroethene           | ug/L  | <0.26        | 1.0             | 05/02/19 16:37 |            |
| Trichlorofluoromethane    | ug/L  | <0.21        | 1.0             | 05/02/19 16:37 |            |
| Vinyl chloride            | ug/L  | <0.17        | 1.0             | 05/02/19 16:37 |            |
| 4-Bromofluorobenzene (S)  | %     | 91           | 70-130          | 05/02/19 16:37 |            |
| Dibromofluoromethane (S)  | %     | 103          | 70-130          | 05/02/19 16:37 |            |
| Toluene-d8 (S)            | %     | 99           | 70-130          | 05/02/19 16:37 |            |

LABORATORY CONTROL SAMPLE: 1859707

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 54.3       | 109       | 70-130       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 52.5       | 105       | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 51.7       | 103       | 73-150       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 60.0       | 120       | 73-138       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 48.6       | 97        | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 50.2       | 100       | 64-129       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 52.4       | 105       | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 52.6       | 105       | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 51.3       | 103       | 75-140       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 51.9       | 104       | 73-135       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 53.0       | 106       | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 52.5       | 105       | 70-130       |            |
| Benzene                     | ug/L  | 50          | 52.7       | 105       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

LABORATORY CONTROL SAMPLE: 1859707

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromodichloromethane      | ug/L  | 50          | 52.8       | 106       | 70-130       |            |
| Bromoform                 | ug/L  | 50          | 51.0       | 102       | 68-129       |            |
| Bromomethane              | ug/L  | 50          | 42.9       | 86        | 18-159       |            |
| Carbon tetrachloride      | ug/L  | 50          | 55.4       | 111       | 70-130       |            |
| Chlorobenzene             | ug/L  | 50          | 53.8       | 108       | 70-130       |            |
| Chloroethane              | ug/L  | 50          | 54.9       | 110       | 53-147       |            |
| Chloroform                | ug/L  | 50          | 52.7       | 105       | 74-136       |            |
| Chloromethane             | ug/L  | 50          | 29.9       | 60        | 29-115       |            |
| cis-1,2-Dichloroethene    | ug/L  | 50          | 50.0       | 100       | 70-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 50          | 50.3       | 101       | 70-130       |            |
| Dibromochloromethane      | ug/L  | 50          | 51.8       | 104       | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 50          | 32.1       | 64        | 10-130       |            |
| Ethylbenzene              | ug/L  | 50          | 55.8       | 112       | 80-124       |            |
| Isopropylbenzene (Cumene) | ug/L  | 50          | 57.7       | 115       | 70-130       |            |
| m&p-Xylene                | ug/L  | 100         | 113        | 113       | 70-130       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 59.9       | 120       | 54-137       |            |
| Methylene Chloride        | ug/L  | 50          | 58.1       | 116       | 73-138       |            |
| o-Xylene                  | ug/L  | 50          | 56.3       | 113       | 70-130       |            |
| Styrene                   | ug/L  | 50          | 56.7       | 113       | 70-130       |            |
| Tetrachloroethene         | ug/L  | 50          | 51.8       | 104       | 70-130       |            |
| Toluene                   | ug/L  | 50          | 54.2       | 108       | 80-126       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 58.8       | 118       | 73-145       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 46.6       | 93        | 70-130       |            |
| Trichloroethene           | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 60.3       | 121       | 76-147       |            |
| Vinyl chloride            | ug/L  | 50          | 46.7       | 93        | 51-120       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 97        | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 102       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859708 1859709

| Parameter                   | Units | MS          |        | MSD         |             | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                             |       | 40186800002 | Result | Spike Conc. | Spike Conc. |           |            |          |           |              |     |         |      |
| 1,1,1-Trichloroethane       | ug/L  | <0.24       | 50     | 50          | 52.2        | 54.1      | 104        | 108      | 70-130    | 4            | 20  |         |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.28       | 50     | 50          | 49.8        | 53.1      | 100        | 106      | 70-130    | 6            | 20  |         |      |
| 1,1,2-Trichloroethane       | ug/L  | <0.55       | 50     | 50          | 51.8        | 52.6      | 104        | 105      | 70-137    | 2            | 20  |         |      |
| 1,1-Dichloroethane          | ug/L  | <0.27       | 50     | 50          | 50.3        | 51.4      | 100        | 102      | 73-153    | 2            | 20  |         |      |
| 1,1-Dichloroethene          | ug/L  | <0.24       | 50     | 50          | 55.9        | 57.8      | 112        | 116      | 73-138    | 3            | 20  |         |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.95       | 50     | 50          | 50.1        | 52.5      | 100        | 105      | 70-130    | 5            | 20  |         |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <1.8        | 50     | 50          | 49.3        | 53.5      | 99         | 107      | 58-129    | 8            | 20  |         |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.83       | 50     | 50          | 52.6        | 53.3      | 105        | 107      | 70-130    | 1            | 20  |         |      |
| 1,2-Dichlorobenzene         | ug/L  | <0.71       | 50     | 50          | 51.8        | 55.2      | 104        | 110      | 70-130    | 6            | 20  |         |      |
| 1,2-Dichloroethane          | ug/L  | <0.28       | 50     | 50          | 49.8        | 51.6      | 100        | 103      | 75-140    | 4            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

| Parameter                    | Units | MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859708 |                      | 1859709               |      | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
|------------------------------|-------|--|----------------------|-----------------------|------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
|                              |       | 40186800002<br>Result                          | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. |      |              |               |             |              |                 |            |     |      |
| 1,2-Dichloropropane          | ug/L  | <0.28  | 50                   | 50                    | 51.6 | 54.2         | 103           | 108         | 71-138       | 5               | 20         |     |      |
| 1,3-Dichlorobenzene          | ug/L  | <0.63  | 50                   | 50                    | 54.3 | 56.0         | 109           | 112         | 70-130       | 3               | 20         |     |      |
| 1,4-Dichlorobenzene          | ug/L  | <0.94  | 50                   | 50                    | 52.8 | 55.3         | 106           | 111         | 70-130       | 4               | 20         |     |      |
| Benzene                      | ug/L  | 0.76J  | 50                   | 50                    | 51.7 | 53.7         | 102           | 106         | 70-130       | 4               | 20         |     |      |
| Bromodichloromethane         | ug/L  | <0.36  | 50                   | 50                    | 52.9 | 53.6         | 106           | 107         | 70-130       | 1               | 20         |     |      |
| Bromoform                    | ug/L  | <4.0   | 50                   | 50                    | 51.0 | 54.0         | 102           | 108         | 68-129       | 6               | 20         |     |      |
| Bromomethane                 | ug/L  | <0.97  | 50                   | 50                    | 44.9 | 47.6         | 90            | 95          | 15-170       | 6               | 20         |     |      |
| Carbon tetrachloride         | ug/L  | <0.17  | 50                   | 50                    | 53.4 | 55.3         | 107           | 111         | 70-130       | 3               | 20         |     |      |
| Chlorobenzene                | ug/L  | <0.71  | 50                   | 50                    | 53.2 | 55.2         | 106           | 110         | 70-130       | 4               | 20         |     |      |
| Chloroethane                 | ug/L  | <1.3   | 50                   | 50                    | 51.1 | 52.5         | 102           | 105         | 51-148       | 3               | 20         |     |      |
| Chloroform                   | ug/L  | <1.3   | 50                   | 50                    | 51.5 | 53.0         | 103           | 106         | 74-136       | 3               | 20         |     |      |
| Chloromethane                | ug/L  | <2.2   | 50                   | 50                    | 26.3 | 26.3         | 53            | 53          | 23-115       | 0               | 20         |     |      |
| cis-1,2-Dichloroethene       | ug/L  | <0.27  | 50                   | 50                    | 49.6 | 50.9         | 99            | 102         | 70-131       | 3               | 20         |     |      |
| cis-1,3-Dichloropropene      | ug/L  | <3.6   | 50                   | 50                    | 50.8 | 51.8         | 102           | 104         | 70-130       | 2               | 20         |     |      |
| Dibromochloromethane         | ug/L  | <2.6   | 50                   | 50                    | 52.6 | 53.2         | 105           | 106         | 70-130       | 1               | 20         |     |      |
| Dichlorodifluoromethane      | ug/L  | <0.50  | 50                   | 50                    | 25.3 | 26.2         | 51            | 52          | 10-132       | 3               | 20         |     |      |
| Ethylbenzene                 | ug/L  | <0.22  | 50                   | 50                    | 55.0 | 56.4         | 110           | 113         | 80-125       | 2               | 20         |     |      |
| Isopropylbenzene<br>(Cumene) | ug/L  | <0.39  | 50                   | 50                    | 56.2 | 58.4         | 112           | 117         | 70-130       | 4               | 20         |     |      |
| m&p-Xylene                   | ug/L  | <0.47  | 100                  | 100                   | 111  | 113          | 111           | 113         | 70-130       | 2               | 20         |     |      |
| Methyl-tert-butyl ether      | ug/L  | <1.2   | 50                   | 50                    | 58.6 | 60.9         | 117           | 122         | 51-145       | 4               | 20         |     |      |
| Methylene Chloride           | ug/L  | <0.58  | 50                   | 50                    | 56.7 | 57.6         | 113           | 115         | 73-140       | 2               | 20         |     |      |
| o-Xylene                     | ug/L  | <0.26  | 50                   | 50                    | 55.4 | 57.7         | 111           | 115         | 70-130       | 4               | 20         |     |      |
| Styrene                      | ug/L  | <0.47  | 50                   | 50                    | 56.0 | 57.8         | 112           | 116         | 70-130       | 3               | 20         |     |      |
| Tetrachloroethene            | ug/L  | <0.33  | 50                   | 50                    | 51.1 | 52.3         | 102           | 105         | 70-130       | 2               | 20         |     |      |
| Toluene                      | ug/L  | <0.17  | 50                   | 50                    | 53.0 | 55.0         | 106           | 110         | 80-131       | 4               | 20         |     |      |
| trans-1,2-Dichloroethene     | ug/L  | <1.1   | 50                   | 50                    | 56.7 | 57.4         | 113           | 115         | 73-148       | 1               | 20         |     |      |
| trans-1,3-Dichloropropene    | ug/L  | <4.4   | 50                   | 50                    | 46.7 | 48.6         | 93            | 97          | 70-130       | 4               | 20         |     |      |
| Trichloroethene              | ug/L  | <0.26  | 50                   | 50                    | 52.8 | 54.2         | 106           | 108         | 70-130       | 3               | 20         |     |      |
| Trichlorofluoromethane       | ug/L  | <0.21  | 50                   | 50                    | 56.5 | 58.8         | 113           | 118         | 74-147       | 4               | 20         |     |      |
| Vinyl chloride               | ug/L  | <0.17  | 50                   | 50                    | 42.4 | 43.6         | 85            | 87          | 41-129       | 3               | 20         |     |      |
| 4-Bromofluorobenzene (S)     | %     |  |                      |                       |      |              | 96            | 95          | 70-130       |                 |            |     |      |
| Dibromofluoromethane (S)     | %     |  |                      |                       |      |              | 100           | 100         | 70-130       |                 |            |     |      |
| Toluene-d8 (S)               | %     |  |                      |                       |      |              | 99            | 98          | 70-130       |                 |            |     |      |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

QC Batch: 320208 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010

METHOD BLANK: 1860332 Matrix: Water  
Associated Lab Samples: 40186800001, 40186800002, 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800008, 40186800009, 40186800010

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride  | mg/L  | <0.50        | 2.0             | 05/09/19 14:08 |            |

LABORATORY CONTROL SAMPLE: 1860333

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride  | mg/L  | 20          | 21.6       | 108       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860334 1860335

| Parameter | Units | 40186739001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride  | mg/L  | 10300              | 10000          | 10000           | 20800     | 22000      | 105      | 117       | 90-110       | 5   | 15      | M0   |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860336 1860337

| Parameter | Units | 40186800002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Chloride  | mg/L  | 25.8               | 20             | 20              | 47.0      | 47.0       | 106      | 106       | 90-110       | 0   | 15      |      |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

QC Batch: 320170 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40186800001, 40186800002

METHOD BLANK: 1860090 Matrix: Water  
Associated Lab Samples: 40186800001, 40186800002

| Parameter                              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | <7.0         | 23.5            | 05/03/19 12:37 |            |

LABORATORY CONTROL SAMPLE: 1860091

| Parameter                              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 100         | 102        | 102       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860092 1860093

| Parameter                              | Units | MS     |       | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--|-------|--------|-------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|  |       | Result | Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 290    | 200   | 200         | 502    | 499      | 106       | 104          | 90-110 | 1       | 20   |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860094 1860095

| Parameter                              | Units | MS     |       | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |
|--|-------|--------|-------|-------------|--------|----------|-----------|--------------|--------|---------|------|
|  |       | Result | Conc. | Spike Conc. | Result |          |           |              |        |         |      |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 211    | 200   | 200         | 402    | 406      | 96        | 97           | 90-110 | 1       | 20   |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

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QC Batch: 320171 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800009, 40186800010

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METHOD BLANK: 1860097 Matrix: Water  
Associated Lab Samples: 40186800003, 40186800004, 40186800005, 40186800006, 40186800007, 40186800009, 40186800010

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | <7.0         | 23.5            | 05/03/19 12:58 |            |

LABORATORY CONTROL SAMPLE: 1860098

| Parameter                  | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L  | 100         | 107        | 107       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1860099 1860100

| Parameter                  | Units | MS                 |             | MSD         |       | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
|                            |       | 40186800010 Result | Spike Conc. | Spike Conc. | Conc. |           |            |          |           |              |     |         |      |
| Alkalinity, Total as CaCO3 | mg/L  | 214                | 200         | 200         | 399   | 412       | 92         | 99       | 90-110    | 3            | 20  |         |      |

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

QC Batch: 321053 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40186800008

METHOD BLANK: 1865196 Matrix: Water  
Associated Lab Samples: 40186800008

| Parameter                              | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--|-------|--------------|-----------------|----------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | <7.0         | 23.5            | 05/13/19 12:27 |            |

LABORATORY CONTROL SAMPLE: 1865197

| Parameter                              | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 100         | 98.9       | 99        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865198 1865199

| Parameter                              | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |        |
|--|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--------|
|  |       | 40186975004 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      | Result |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 50.9               | 100         | 100         | 154    | 153      | 103       | 102          | 90-110 | 0       | 20   |        |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1865200 1865201

| Parameter                              | Units | MS                 |             | MSD         |        | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |        |
|--|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--------|
|  |       | 40187096001 Result | Spike Conc. | Spike Conc. | Result |          |           |              |        |         |      | Result |
| Alkalinity, Total as CaCO <sub>3</sub> | mg/L  | 425                | 500         | 500         | 922    | 920      | 99        | 99           | 90-110 | 0       | 20   |        |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

QC Batch: 320872 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 40186800009

METHOD BLANK: 1863724 Matrix: Water  
Associated Lab Samples: 40186800009

| Parameter         | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Ammonia | mg/L  | <0.25        | 0.50            | 05/09/19 17:31 |            |

LABORATORY CONTROL SAMPLE: 1863725

| Parameter         | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Ammonia | mg/L  | 10          | 10.0       | 100       | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863726 1863727

| Parameter         | Units | 40186778001 |       | MS          |       | MSD    |        | % Rec |       | Limits | RPD | Max RPD | Qual |
|-------------------|-------|-------------|-------|-------------|-------|--------|--------|-------|-------|--------|-----|---------|------|
|                   |       | Result      | Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec |        |     |         |      |
| Nitrogen, Ammonia | mg/L  | <0.25       | 10    | 10          | 10    | 9.4    | 9.2    | 93    | 91    | 90-110 | 2   | 20      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1863728 1863729

| Parameter         | Units | 40187208001 |       | MS          |       | MSD    |        | % Rec |       | Limits | RPD | Max RPD | Qual |
|-------------------|-------|-------------|-------|-------------|-------|--------|--------|-------|-------|--------|-----|---------|------|
|                   |       | Result      | Conc. | Spike Conc. | Conc. | Result | Result | % Rec | % Rec |        |     |         |      |
| Nitrogen, Ammonia | mg/L  | 1.0         | 10    | 10          | 10    | 10.4   | 10.5   | 94    | 95    | 90-110 | 1   | 20      |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

QC Batch: 320730 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 40186800009

METHOD BLANK: 1862845 Matrix: Water  
Associated Lab Samples: 40186800009

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | <0.22        | 0.73            | 05/08/19 16:20 |            |

LABORATORY CONTROL SAMPLE: 1862846

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Nitrogen, Kjeldahl, Total | mg/L  | 5           | 4.7        | 94        | 90-110       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862847 1862848

| Parameter                 | Units | 40186657001 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 200         | 50             | 50              | 236       | 236        | 72       | 72        | 90-110 | 0            | 20  | P6      |      |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1862849 1862850

| Parameter                 | Units | 40186778001 |                | MSD             |           | MS         |          | MSD       |        | % Rec Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-----------|--------|--------------|-----|---------|------|
|                           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              |     |         |      |
| Nitrogen, Kjeldahl, Total | mg/L  | 0.51J       | 5              | 5               | 5.1       | 5.2        | 93       | 93        | 90-110 | 1            | 20  |         |      |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11115796-20 RHINELANDER LF

Pace Project No.: 40186800

| Lab ID      | Sample ID  | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|------------------|
| 40186800001 | MW-16C     | EPA 6010        | 320374   |                   |                  |
| 40186800002 | MW-16A     | EPA 6010        | 320374   |                   |                  |
| 40186800003 | MW-16B     | EPA 6010        | 320374   |                   |                  |
| 40186800004 | MW-16B DUP | EPA 6010        | 320374   |                   |                  |
| 40186800005 | MW-20C     | EPA 6010        | 320374   |                   |                  |
| 40186800006 | MW-20B     | EPA 6010        | 320374   |                   |                  |
| 40186800007 | MW-20A     | EPA 6010        | 320374   |                   |                  |
| 40186800008 | MW-20A DUP | EPA 6010        | 320374   |                   |                  |
| 40186800009 | MW-2A      | EPA 6010        | 320374   |                   |                  |
| 40186800010 | MW-2B      | EPA 6010        | 320374   |                   |                  |
| 40186800001 | MW-16C     | EPA 8260        | 320090   |                   |                  |
| 40186800002 | MW-16A     | EPA 8260        | 320090   |                   |                  |
| 40186800003 | MW-16B     | EPA 8260        | 320090   |                   |                  |
| 40186800004 | MW-16B DUP | EPA 8260        | 320090   |                   |                  |
| 40186800005 | MW-20C     | EPA 8260        | 320090   |                   |                  |
| 40186800006 | MW-20B     | EPA 8260        | 320090   |                   |                  |
| 40186800007 | MW-20A     | EPA 8260        | 320090   |                   |                  |
| 40186800008 | MW-20A DUP | EPA 8260        | 320090   |                   |                  |
| 40186800009 | MW-2A      | EPA 8260        | 320090   |                   |                  |
| 40186800010 | MW-2B      | EPA 8260        | 320090   |                   |                  |
| 40186800011 | TRIP BLANK | EPA 8260        | 320090   |                   |                  |
| 40186800001 | MW-16C     |                 |          |                   |                  |
| 40186800002 | MW-16A     |                 |          |                   |                  |
| 40186800003 | MW-16B     |                 |          |                   |                  |
| 40186800004 | MW-16B DUP |                 |          |                   |                  |
| 40186800005 | MW-20C     |                 |          |                   |                  |
| 40186800006 | MW-20B     |                 |          |                   |                  |
| 40186800007 | MW-20A     |                 |          |                   |                  |
| 40186800008 | MW-20A DUP |                 |          |                   |                  |
| 40186800009 | MW-2A      |                 |          |                   |                  |
| 40186800010 | MW-2B      |                 |          |                   |                  |
| 40186800001 | MW-16C     | EPA 300.0       | 320208   |                   |                  |
| 40186800002 | MW-16A     | EPA 300.0       | 320208   |                   |                  |
| 40186800003 | MW-16B     | EPA 300.0       | 320208   |                   |                  |
| 40186800004 | MW-16B DUP | EPA 300.0       | 320208   |                   |                  |
| 40186800005 | MW-20C     | EPA 300.0       | 320208   |                   |                  |
| 40186800006 | MW-20B     | EPA 300.0       | 320208   |                   |                  |
| 40186800007 | MW-20A     | EPA 300.0       | 320208   |                   |                  |
| 40186800008 | MW-20A DUP | EPA 300.0       | 320208   |                   |                  |
| 40186800009 | MW-2A      | EPA 300.0       | 320208   |                   |                  |
| 40186800010 | MW-2B      | EPA 300.0       | 320208   |                   |                  |
| 40186800001 | MW-16C     | EPA 310.2       | 320170   |                   |                  |
| 40186800002 | MW-16A     | EPA 310.2       | 320170   |                   |                  |
| 40186800003 | MW-16B     | EPA 310.2       | 320171   |                   |                  |
| 40186800004 | MW-16B DUP | EPA 310.2       | 320171   |                   |                  |
| 40186800005 | MW-20C     | EPA 310.2       | 320171   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 11115796-20 RHINELANDER LF  
Pace Project No.: 40186800

| Lab ID      | Sample ID  | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|------------------|
| 40186800006 | MW-20B     | EPA 310.2       | 320171   |                   |                  |
| 40186800007 | MW-20A     | EPA 310.2       | 320171   |                   |                  |
| 40186800008 | MW-20A DUP | EPA 310.2       | 321053   |                   |                  |
| 40186800009 | MW-2A      | EPA 310.2       | 320171   |                   |                  |
| 40186800010 | MW-2B      | EPA 310.2       | 320171   |                   |                  |
| 40186800009 | MW-2A      | EPA 350.1       | 320872   |                   |                  |
| 40186800009 | MW-2A      | EPA 351.2       | 320730   | EPA 351.2         | 320791           |

**REPORT OF LABORATORY ANALYSIS**

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(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40186800

Page 43 of 45



CHAIN OF CUSTODY

Preservation Codes: A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: GHD, Branch/Location: St. Paul, Project Contact: B. Anderson, Phone: 651-639-0913, Project Number: 11115796-4020, Project Name: Rhinelander LR, Project State: WI, Sampled By (Print): Ryan Aarnot, Sampled By (Sign): [Signature]

FILTERED? (YES/NO), PRESERVATION (CODE)\*

Table with columns for Y/N, Pick Letter, and Analyses Requested (VOCs + tetrahydrofuran, Chloride: ALK, Fe: Mn, Boron, Hardness, Ammonia: TKN)

Data Package Options (EPA Level III/IV), MS/MSD (On your sample/NOT needed), Matrix Codes (Air, Blota, Charcoal, Oil, Soil, Sludge, Water, Drinking Water, Ground Water, Surface Water, Waste Water, Wipe)

Table with columns: PACE LAB #, CLIENT FIELD ID, COLLECTION DATE, TIME, MATRX

Quote #, Mail To Contact, Mail To Company, Mail To Address, Invoice To Contact, Invoice To Company, Invoice To Address, Invoice To Phone, CLIENT COMMENTS, LAB COMMENTS (Lab Use Only), Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge), Date Needed, Transmit Prelim Rush Results by (complete what you want), Relinquished By, Date/Time, Received By, Date/Time, PACE Project No., Receipt Temp = 1.0 °C, Sample Receipt pH (OK / Adjusted), Cooler Custody Seal (Present / Not Present) Intact / Not Intact

### Sample Preservation Receipt Form

Client Name: GHD

Project # 10186800

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Initial when completed: RL Date/Time:

Lab Lot# of pH paper: low 358 Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass |      |      |      |      |      | Plastic |      |      |      |      |      | Vials |      |      |      | Jars |      |      | General |      |      | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |      |      |      |    |  |  |              |              |
|------------|-------|------|------|------|------|------|---------|------|------|------|------|------|-------|------|------|------|------|------|------|---------|------|------|--------------------|-------------|-------------------|-------------|------------|-------------------|-------------|------|------|------|----|--|--|--------------|--------------|
|            | AG1U  | AG1H | AG4S | AG4U | AG5U | AG2S | BG3U    | BP1U | BP2N | BP2Z | BP3U | BP3C | BP3N  | BP3S | DG9A | DG9T | VG9U | VG9H | VG9M | VG9D    | JGFU | WGFU |                    |             |                   |             |            |                   |             | WPFU | SP5T | ZPLC | GN |  |  |              |              |
| 001        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  |              | 2.5 / 5 / 10 |
| 002        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 003        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 004        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 005        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 006        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 007        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 008        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 009        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 010        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 011        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 012        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 013        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 014        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 015        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 016        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 017        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 018        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 019        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |
| 020        |       |      |      |      |      |      |         |      |      | 3    |      | 3    |       |      |      |      | 3    |      |      |         |      |      |                    |             |                   |             |            |                   |             |      |      |      |    |  |  | 2.5 / 5 / 10 |              |

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_ Headspace in VOA Vials (>6mm) :  Yes  No  N/A \*If yes look in headspace column

|                                       |  |                                     |   |
|---------------------------------------|--|-------------------------------------|---|
| <b>AG1U</b> 1 liter amber glass       | <b>BP1U</b> 1 liter plastic unpres     | <b>DG9A</b> 40 mL amber ascorbic    | <b>JGFU</b> 4 oz amber jar unpres         |
| <b>AG1H</b> 1 liter amber glass HCL   | <b>BP2N</b> 500 mL plastic HNO3        | <b>DG9T</b> 40 mL amber Na Thio     | <b>WGFU</b> 4 oz clear jar unpres         |
| <b>AG4S</b> 125 mL amber glass H2SO4  | <b>BP2Z</b> 500 mL plastic NaOH, Znact | <b>VG9U</b> 40 mL clear vial unpres | <b>WPFU</b> 4 oz plastic jar unpres       |
| <b>AG4U</b> 120 mL amber glass unpres | <b>BP3U</b> 250 mL plastic unpres      | <b>VG9H</b> 40 mL clear vial HCL    |   |
| <b>AG5U</b> 100 mL amber glass unpres | <b>BP3C</b> 250 mL plastic NaOH        | <b>VG9M</b> 40 mL clear vial MeOH   | <b>SP5T</b> 120 mL plastic Na Thiosulfate |
| <b>AG2S</b> 500 mL amber glass H2SO4  | <b>BP3N</b> 250 mL plastic HNO3        | <b>VG9D</b> 40 mL clear vial DI     | <b>ZPLC</b> ziploc bag                    |
| <b>BG3U</b> 250 mL clear glass unpres | <b>BP3S</b> 250 mL plastic H2SO4       |                                     | <b>GN:</b>                                |



1241 Bellevue Street, Green Bay, WI 54302

Document Name:  
Sample Condition Upon Receipt (SCUR)  
Document No.:  
F-GB-C-031-Rev.07

Document Revised: 25Apr2018  
Issuing Authority:  
Pace Green Bay Quality Office

### Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40186800



Client Name:

GHD

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 812616660117

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Custody Seal on Samples Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer Used SR-78 Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.0 /Corr: 1.0

Temp Blank Present:  yes  no

Biological Tissue is Frozen:  yes  no

Person examining contents:  
Date: 05/01/19  
Initials: ae

Temp should be above freezing to 6°C.  
Biota Samples may be received at ≤ 0°C.

|  |  |   |
|--|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 2. Mail, invoice, preservation ae 05/01/19    |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 5.  |
| - VOA Samples frozen upon receipt  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | Date/Time:                                    |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 6.  |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              | 7.  |
| Sufficient Volume:   |  | 8.  |
| For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |   |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 9.  |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |   |
| -Pace IR Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | 10.   |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.   |
| Sample Labels match COC:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12. No times on vials, ae 05/01/19 or bottles |
| -Includes date/time/ID/Analysis Matrix: W  |  |   |
| Trip Blank Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.   |
| Trip Blank Custody Seals Present   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |   |
| Pace Trip Blank Lot # (if purchased): 416  |  |   |

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

*[Signature]*

Date:

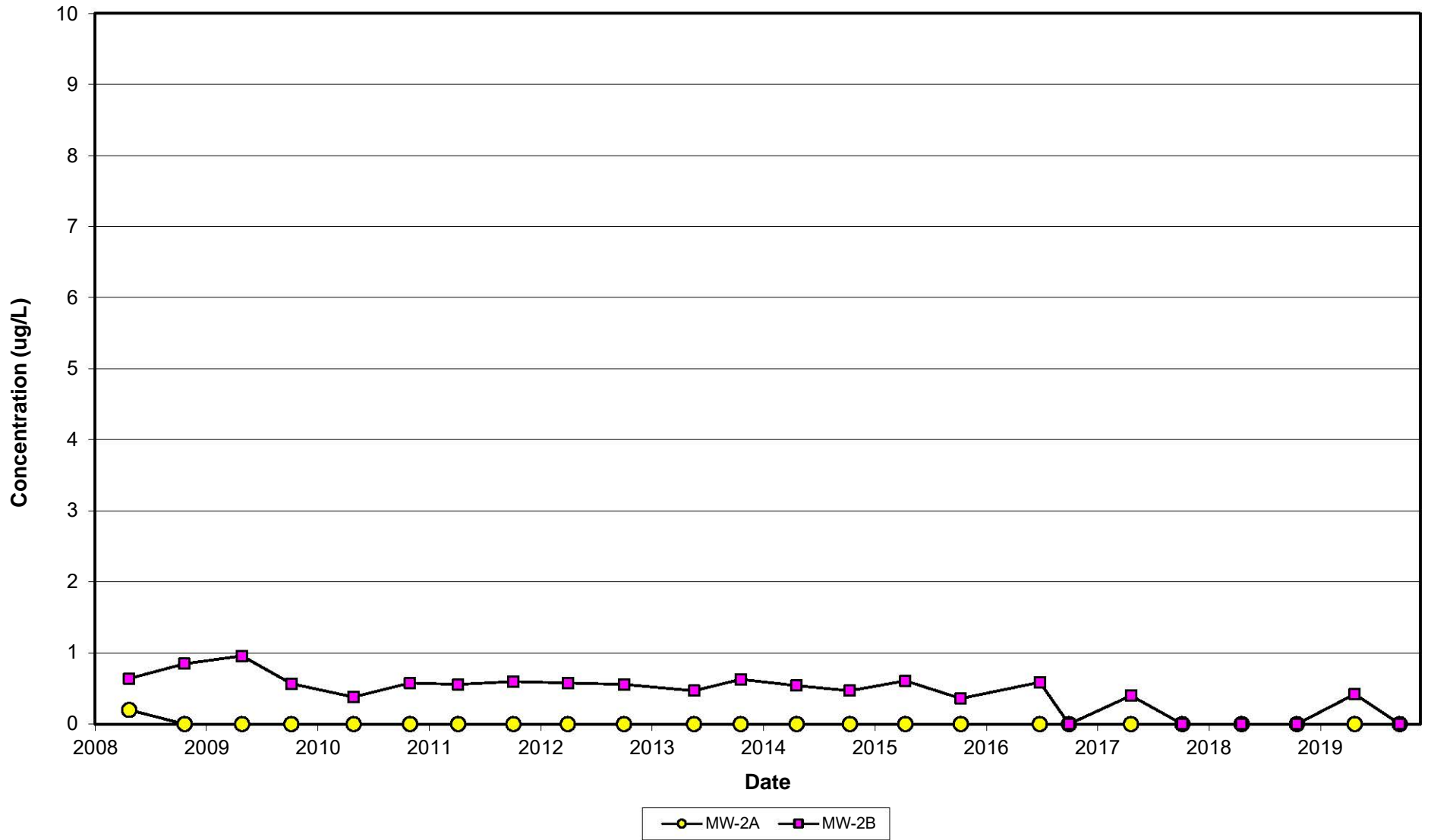
05/01/19

# Appendix C

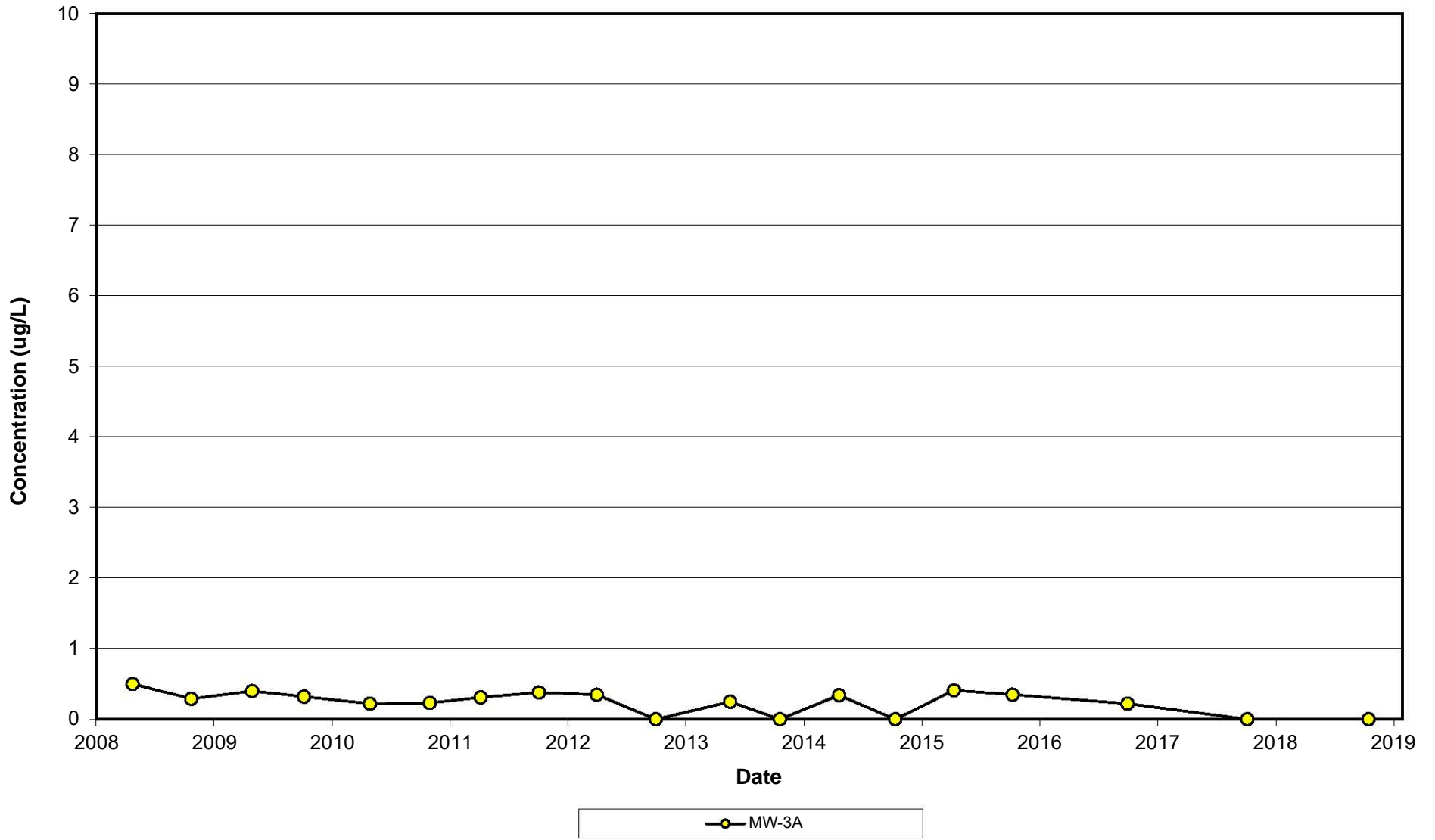
## Vinyl Chloride Graphs



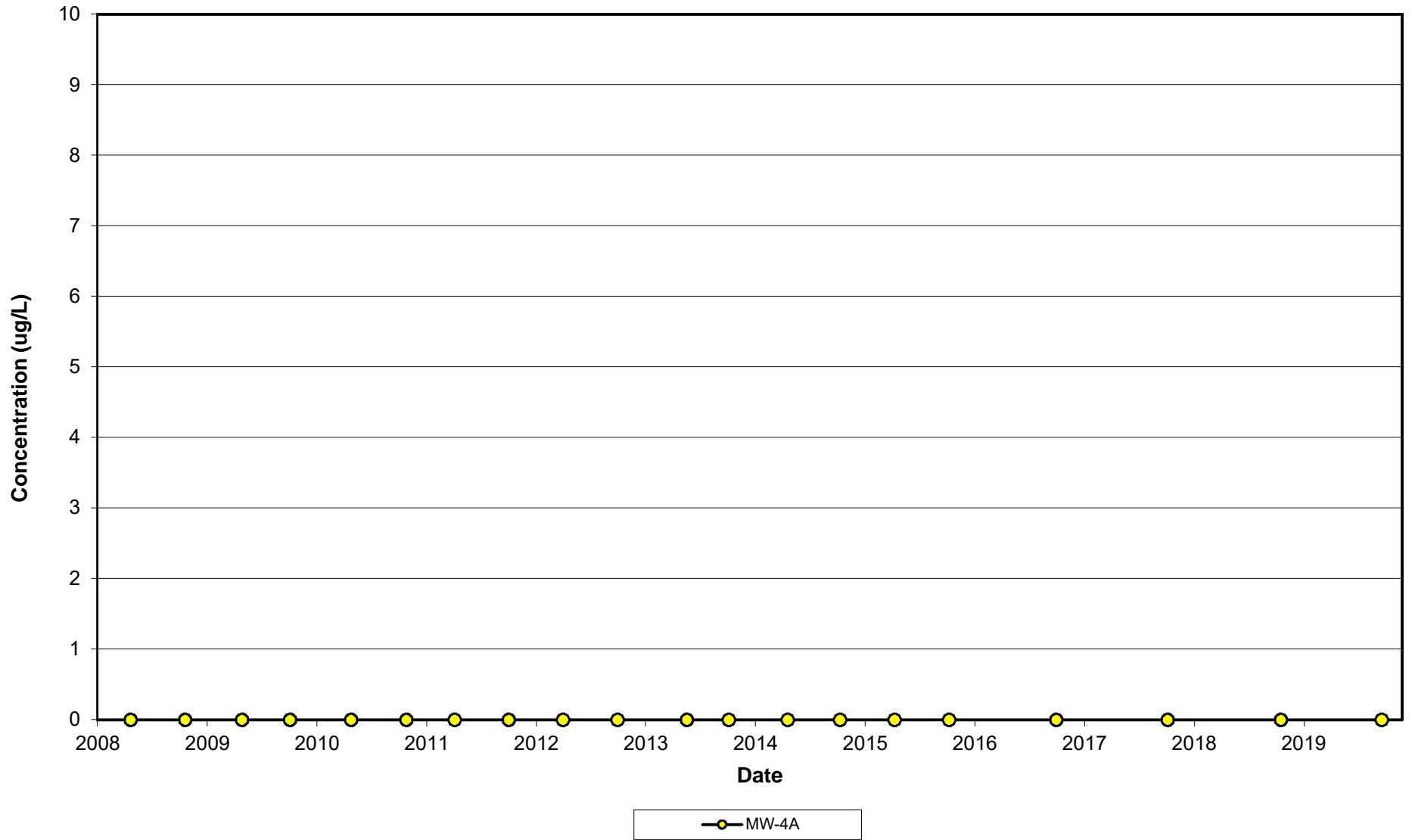
Vinyl Chloride Concentrations Over Time  
(MW-2 NEST)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin



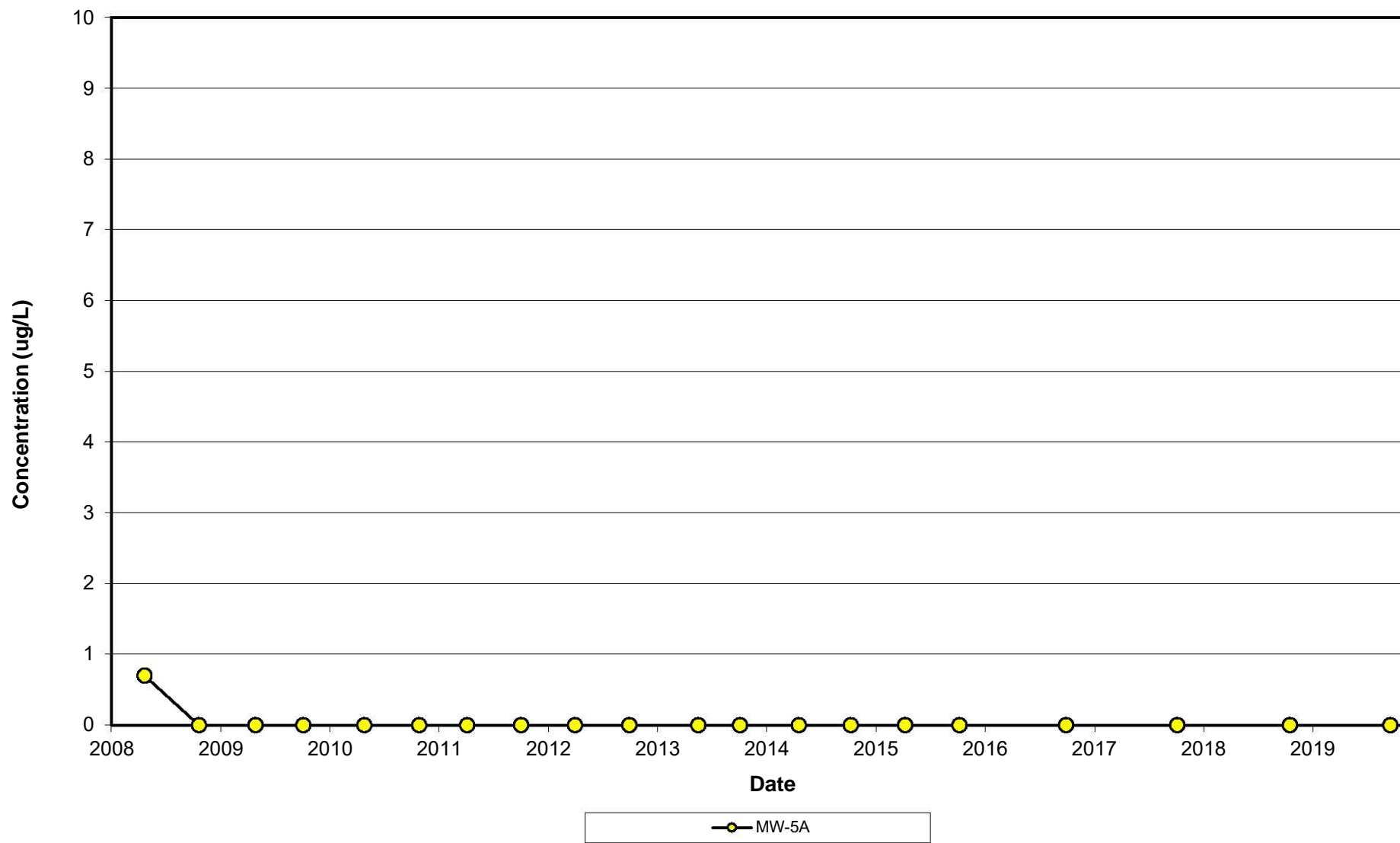
Vinyl Chloride Concentrations Over Time  
(MW-3A)  
Rhineland Landfill  
Rhineland, Wisconsin



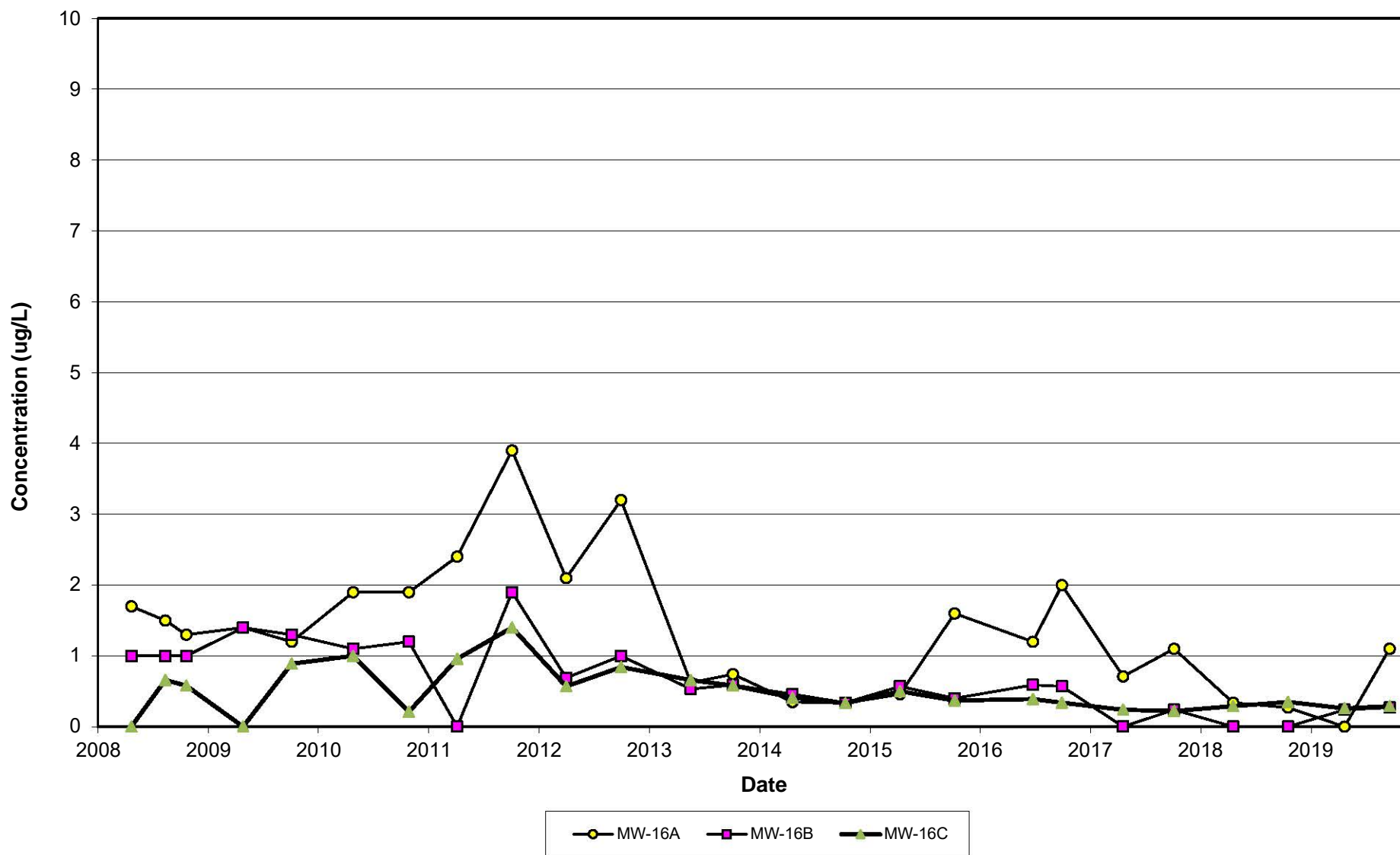
Vinyl Chloride Concentrations Over Time  
(MW-4A)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin



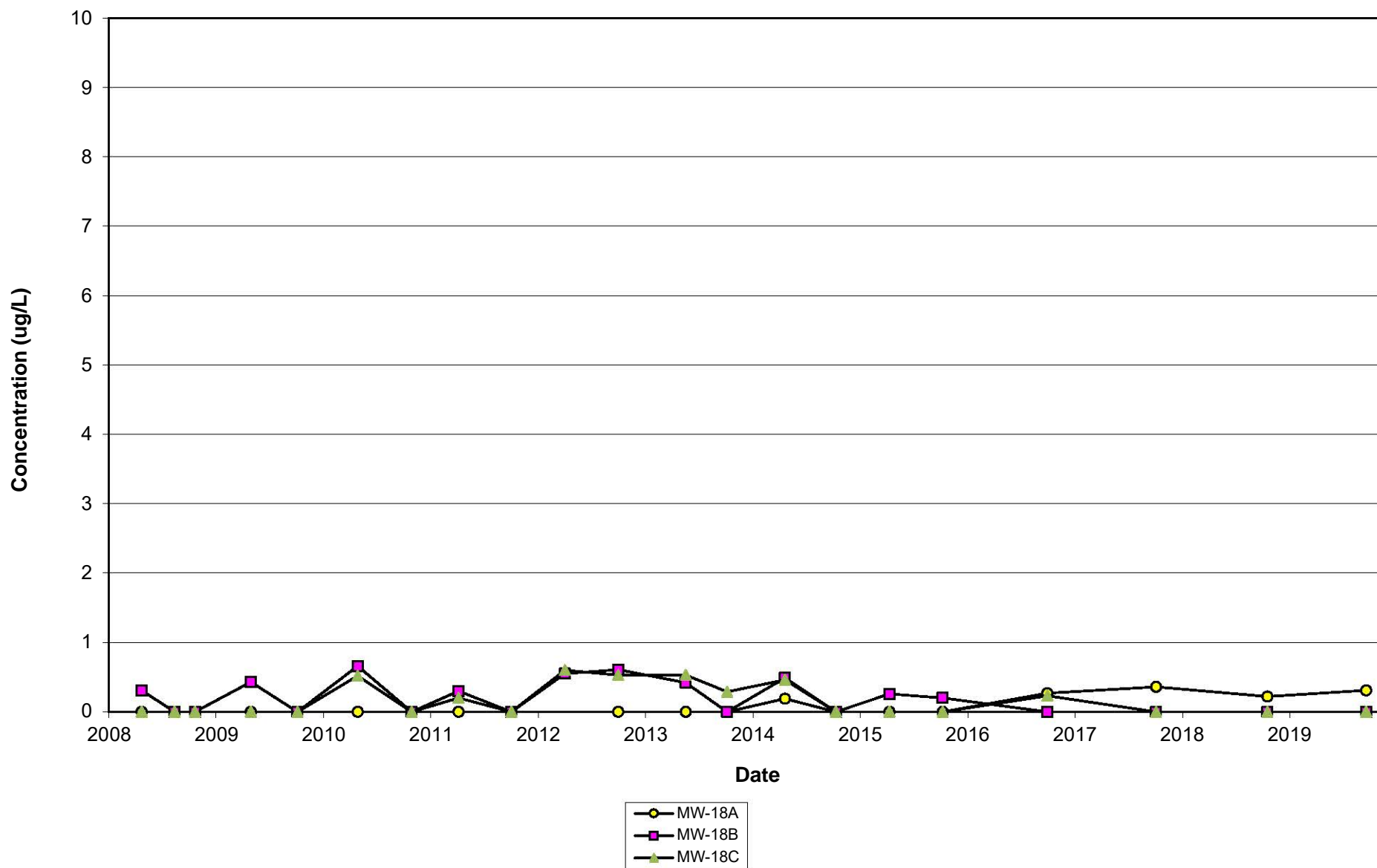
Vinyl Chloride Concentrations Over Time  
(MW-5A)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin



Vinyl Chloride Concentrations Over Time  
(MW-16 NEST)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin

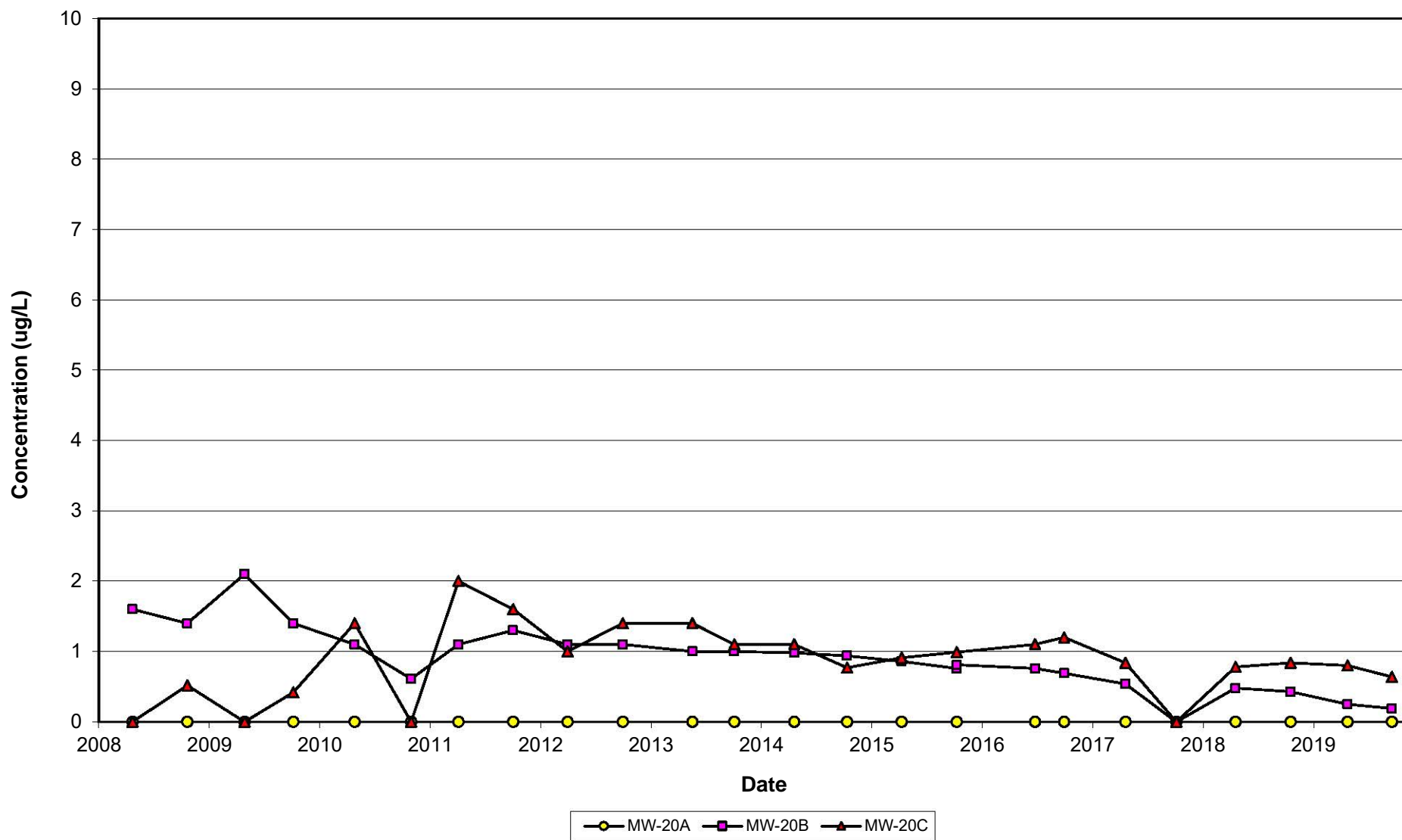


Vinyl Chloride Concentrations Over Time  
 (MW-18 NEST)  
 Rhinelander Landfill  
 Rhinelander, Wisconsin

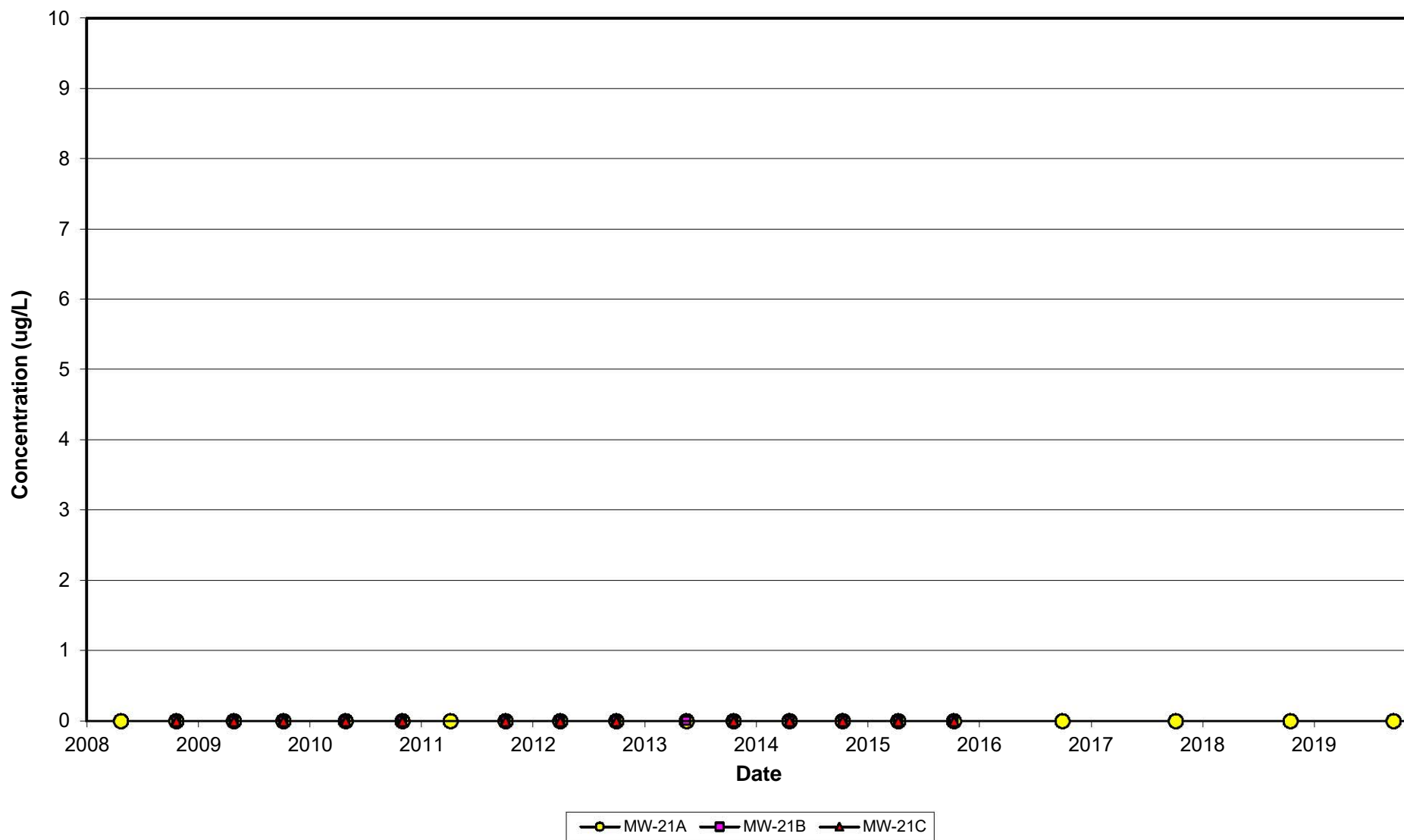




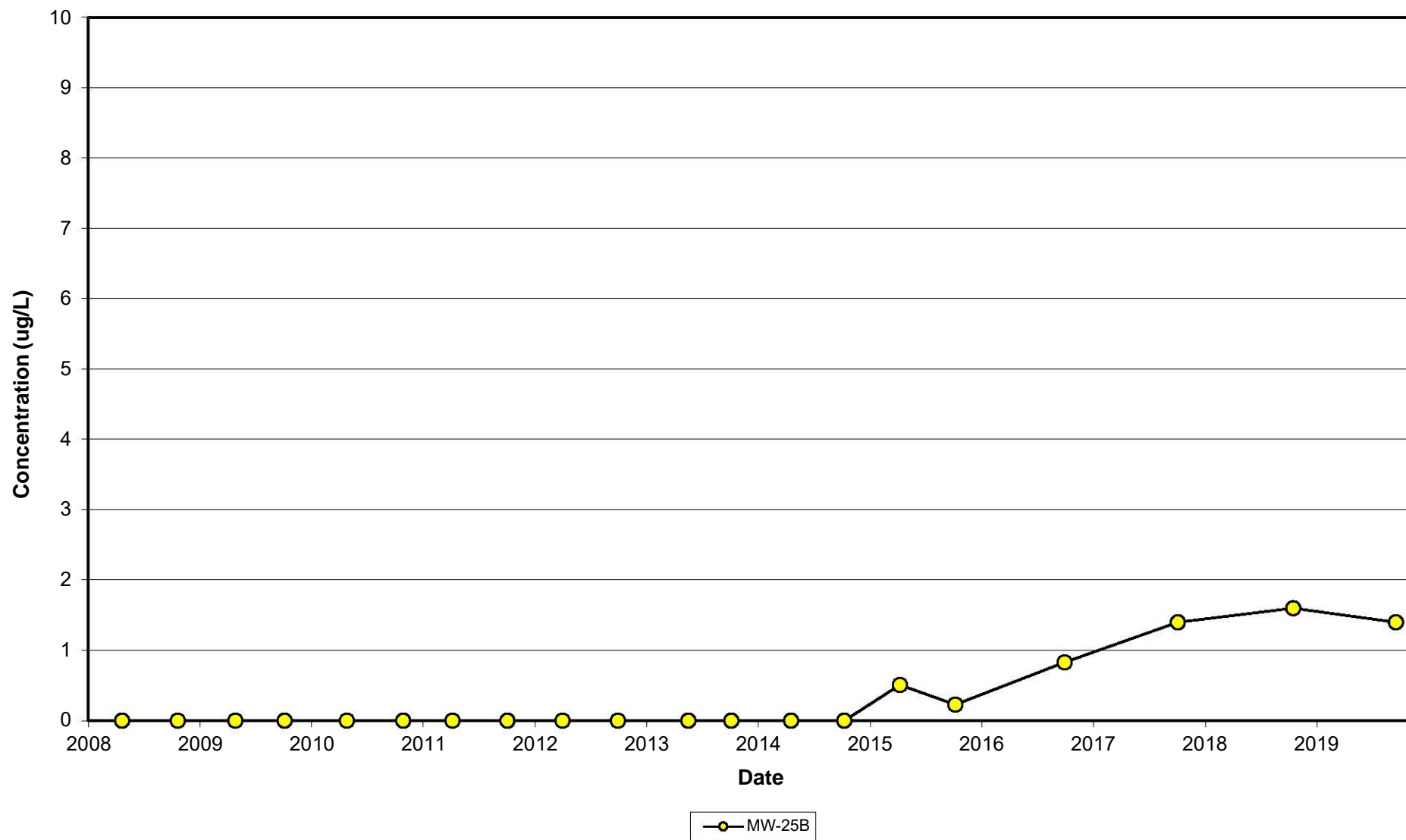
Vinyl Chloride Concentrations Over Time  
 (MW-20 NEST)  
 Rhinelander Landfill  
 Rhinelander, Wisconsin



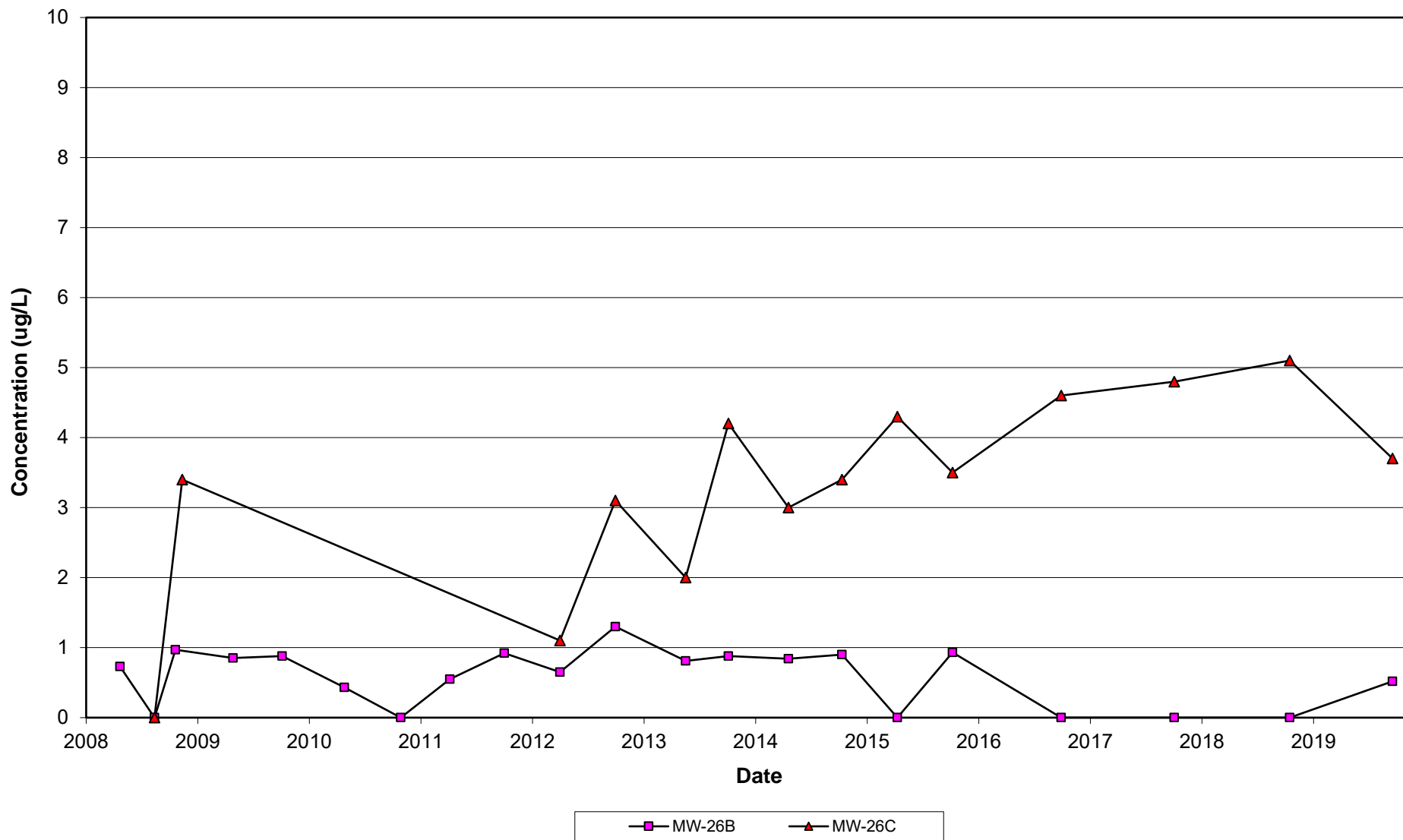
Vinyl Chloride Concentrations Over Time  
(MW-21 NEST)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin



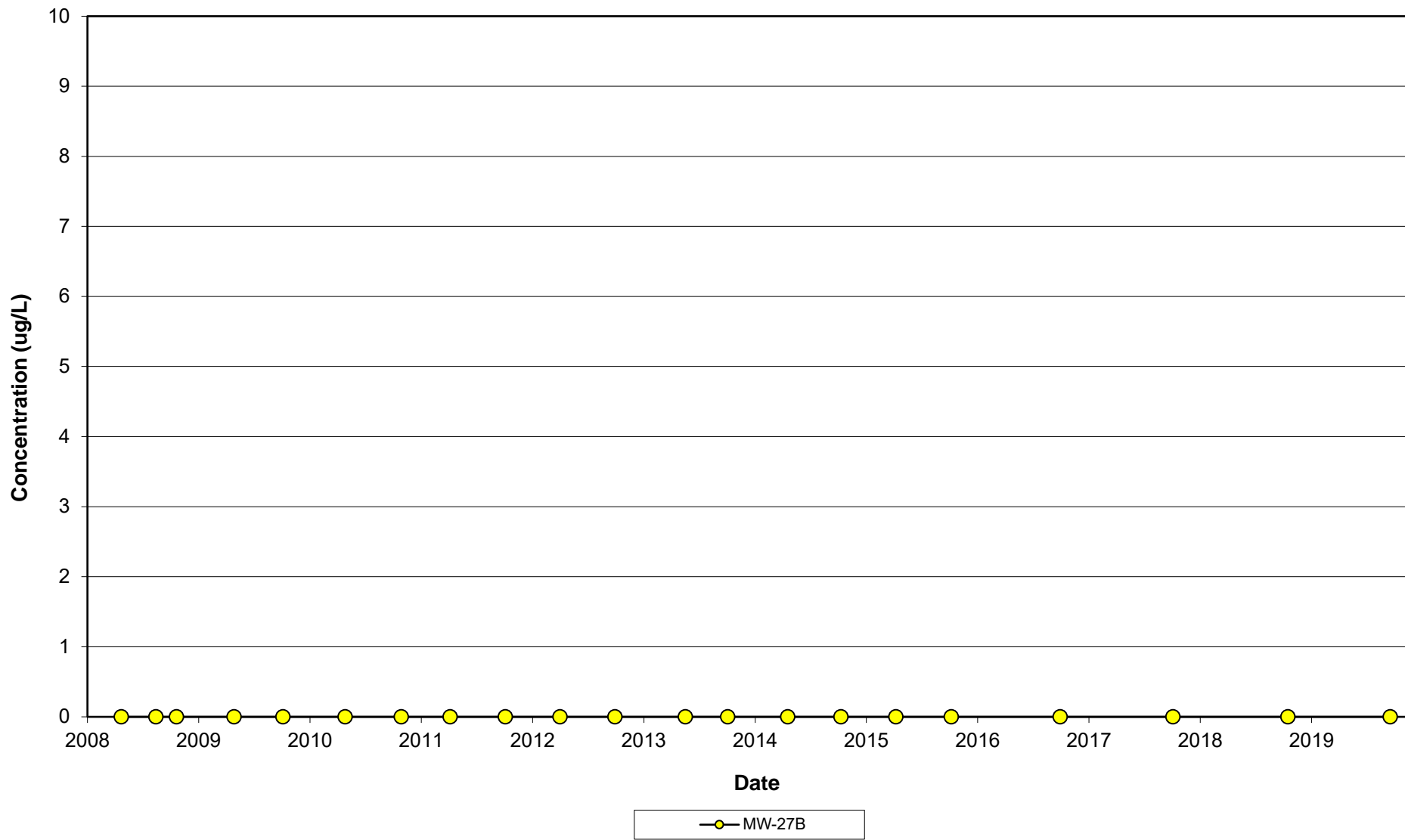
Vinyl Chloride Concentrations Over Time  
(MW-25B)  
Rhinelander Landfill  
Rhinelander, Wisconsin



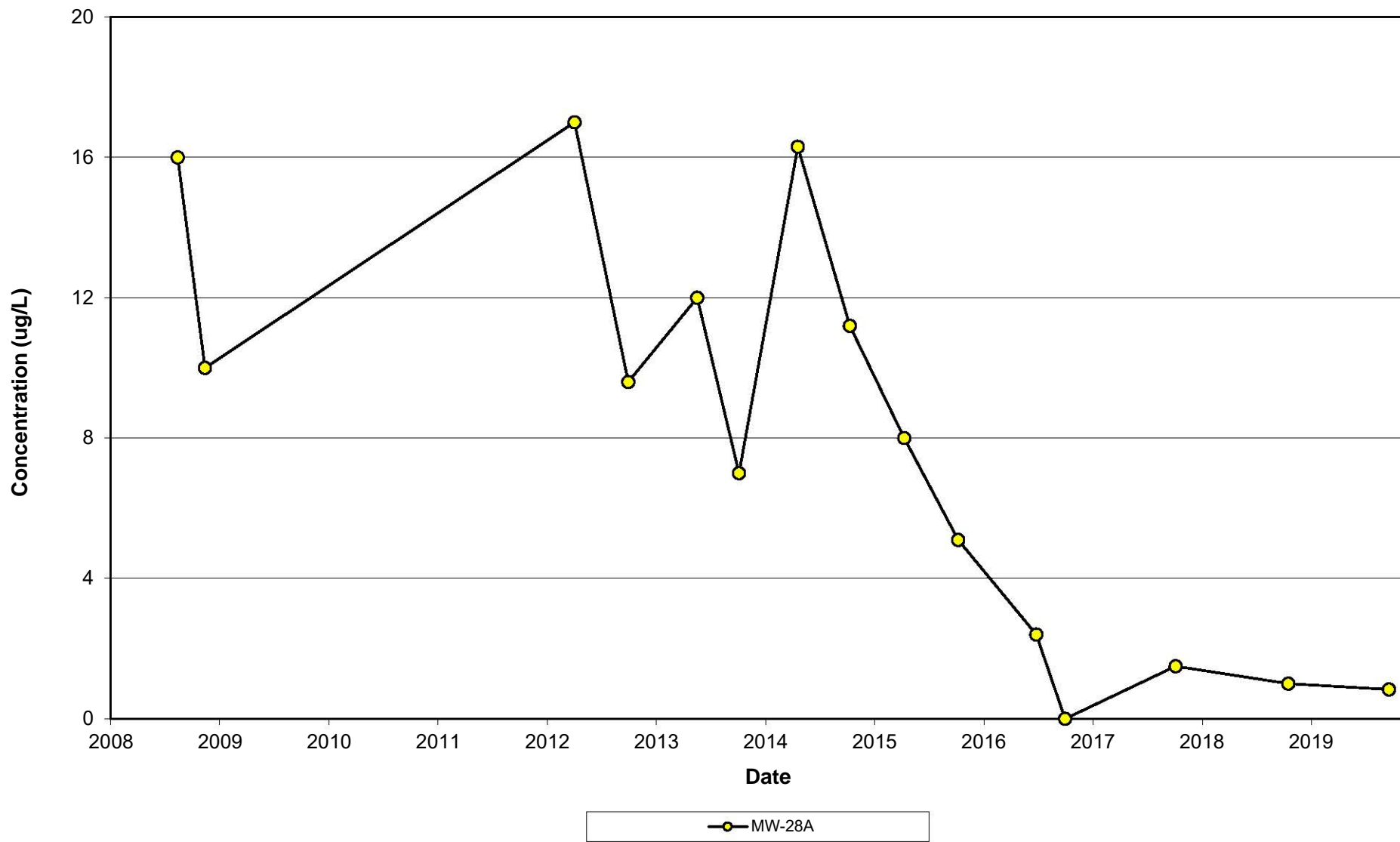
### Vinyl Chloride Concentrations Over Time (MW-26 NEST) Rhinelanders Landfill Rhinelanders, Wisconsin



Vinyl Chloride Concentrations Over Time  
(MW-27B)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin



Vinyl Chloride Concentrations Over Time  
(MW-28A)  
Rhinelanders Landfill  
Rhinelanders, Wisconsin







# about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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