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June 9, 2020

File No. 20.0155935.01

Mr. Michael M. Schmoller, Advanced Hydrogeologist
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5367

Re: Semiannual Groundwater Sampling Report (November 2019)
Former Trent Tube Plant No. 1
2188 Church Street
East Troy, Wisconsin
BRRTS #02-65-245827

Dear Mr. Schmoller:

GZA GeoEnvironmental, Inc. (GZA) is submitting this Semiannual Groundwater Sampling Report, on behalf of EnPro Holdings, Inc. (EnPro), for the former Trent Tube Plant No. 1 site in the Village of East Troy, Wisconsin ("Site"). This report includes a summary of the groundwater sampling activities performed in November 2019, approximately one month following an enhanced reductive dichlorination (ERD) injection pilot test conducted on the southwest corner of the property. The pilot test was performed to evaluate the potential for utilizing ERD as an option for the remediation of chlorinated hydrocarbon-affected groundwater. A detailed summary of the pilot test activities, the post-injection monitoring results, and an interpretation of the results will be submitted under separate cover to the Wisconsin Department of Natural Resources (WDNR). This report only includes a limited discussion of the ERD pilot test and, instead, focuses on the analytical results from the November 2019 sampling event. Please note that this report is subject to the Limitations provided in Attachment 1.

BACKGROUND

On November 20 and 21, 2019, GZA completed semiannual groundwater monitoring and sampling activities at the Site. The field activities included measurement of groundwater levels, low-flow purging of the monitoring wells, collection of groundwater samples, and the measurement of field parameters from 26 wells across the Site. GZA sampled the 18 monitoring wells that were also sampled during the 2018 sampling events, the seven monitoring wells installed in July 2019 (MW-13R, MW-18R, MW-38 through MW-42), and existing well OP-14. The additional eight wells that were included in this sampling event were part of the post-injection monitoring program associated with the pilot test.

Since June 2019 when the last Semiannual Groundwater Sampling Report was submitted, the Groundwater Extraction and Treatment System (GETS) operated with required and routine operation and maintenance activities. Effluent samples were collected from the groundwater discharge and volatile organic compound (VOC) concentrations were below permitted limits established in the General Wisconsin Pollutant Discharge Elimination System (WPDES) Permit governing the discharge. The results of the discharge monitoring are reported electronically through the Wisconsin Web Access Management System (WAMS) to the WDNR on a quarterly



basis and are included in the annual WDNR Remediation Site Operation, Maintenance, Monitoring & Optimization Report, which will be submitted under separate cover.

This report, including the groundwater sampling results, is being submitted to satisfy the requirements for submittal of progress in accordance with Wisconsin Administrative Code (Wis. Adm. Code) Chapter NR 724.13(3) for operation and maintenance of remedial systems.

GROUNDWATER MONITORING METHODS

Groundwater samples were collected from 26 monitoring wells on November 20 and 21, 2019, using low-flow sampling techniques in accordance with the procedures specified in the WDNR Groundwater Sampling Field Manual (PUBL-DG-03896). The sampled wells included the list of monitoring wells previously approved for sampling by the WDNR for the semiannual sampling event, plus eight additional wells described above. During the low-flow sampling procedure, field parameters for pH, temperature, specific conductivity, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) were measured and recorded.

Water Level Measurements

Water level measurements, referenced to the top of PVC monitoring well casing, were measured in each well prior to well purging and sampling. The water levels were measured using a Solinst™ water level indicator. GZA decontaminated the equipment prior to and after sampling at each well location.

The depths to groundwater in the wells north of the slope along Honey Creek varied from approximately 4 to 13 feet below ground surface (bgs) depending on location. The depths to groundwater in the wells adjacent to Honey Creek, in the former channel and lagoon area, and in the wetland on the south side of Honey Creek, were approximately 0.38 to 3.06 feet bgs. The depths to groundwater in these areas were influenced by the creek and precipitation. The depth to groundwater measurements collected from each well were used to calculate the groundwater elevation and to prepare a groundwater potentiometric surface map for the shallow groundwater system. Table 1 presents a summary of the groundwater elevations and Figure 1 presents the potentiometric surface.

The horizontal direction of groundwater flow at the Site is generally toward Honey Creek to the south, which represents a discharge point for shallow groundwater flow at the Site. The groundwater elevations indicate higher elevations on the northwest corner of the Site, which causes a semi-radial flow pattern similar to the shape of Honey Creek along the southern Site boundary. The horizontal hydraulic gradient varies across the Site. The hydraulic gradient is relatively shallow in the area of the former building and along Trent Street to the north. There is a steeper gradient along Honey Creek near the south side of the former building and along the former channel and lagoon.

Based on the November 20 and 21, 2019 measurements, the average horizontal hydraulic gradient on the northern portion of the Site is approximately 0.017 feet per foot (ft/ft). Near Honey Creek, the average hydraulic gradient is approximately 0.035 ft/ft. The horizontal groundwater flow direction and hydraulic gradient are consistent with the topography of the Site and with other groundwater elevations previously measured at the Site. Although there are limited groundwater elevation data for the area south of Honey Creek, the creek appears to provide a hydraulic barrier that limits migration of groundwater beyond the creek.

The area of consolidation (AOC) on the eastern portion of the Site does not appear to change the shallow groundwater flow direction or depth to groundwater due to mounding of water in the AOC material. The AOC is an area of fill that meets the existing surface grade on the west and is approximately 6 to 8 feet above the apparent grade to the east. The depth to groundwater in this area is approximately 9 to 10 feet bgs, which is at or below the estimated maximum thickness of fill material in the AOC.



Groundwater Sampling

Following the collection of groundwater level measurements, GZA purged each of the 26 monitoring wells using low-flow sampling techniques. The wells were purged using a peristaltic pump equipped with dedicated polyethylene tubing and a multi-meter equipped with a flow-through cell to measure field parameters (pH, temperature, DO, ORP, turbidity, and specific conductance). In accordance with WDNR's sampling requirements, the tubing intake was set in each well either (a) at the mid-point of the screen if the top of the well screen was below the groundwater interface, or (b) in the middle of the water column in the well if the groundwater interface was within the well screen section.

The purge rate for each well was set to minimize drawdown. The purge rate ranged from 150 to 300 milliliters/minute (ml/min), with most wells purged at 250 to 300 ml/min. Each well was purged until the field parameters stabilized within specified limits for the low-flow sampling techniques. The groundwater samples at each well were collected directly from the polyethylene tubing by disconnecting the tubing between the peristaltic pump and the flow-through cell. The groundwater samples were collected directly into laboratory-supplied and properly preserved sample containers. The groundwater purged from each well was collected in 5-gallon buckets and placed in a sump that discharged to the GETS for treatment. During purging, field parameters were measured using a YSI 556 MPS Multimeter water quality meter and a LaMotte 2200 turbidity meter. A summary of the final stabilized field parameter measurements for each well is presented on Table 2.

Following sample collection, the samples were placed on ice in an insulated cooler and shipped to Pace Analytical Services, Inc. of Green Bay, Wisconsin (WDNR ID No. 405132750) via overnight carrier. The groundwater samples were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method 8260. Select samples were also analyzed for methane, ethene, and ethane by USEPA Method 8015B Modified, dissolved iron and manganese by USEPA Method 6010, sulfate by USEPA Method 300.0, alkalinity by USEPA Method 310.2, and total organic carbon (TOC) by Method SM 5310C.

For quality assurance/quality control (QA/QC) purposes, duplicate samples were collected at a rate of one duplicate for every 20 wells sampled. Two duplicate samples were collected and submitted for analysis of VOCs, methane, ethene, ethane, dissolved manganese and iron, sulfate, alkalinity, and TOC. Trip blanks were included in each cooler shipped to the laboratory and were analyzed for VOCs. Equipment blanks were not collected because GZA used new disposable tubing and laboratory-supplied transfer containers to sample at each well. QA/QC samples were processed and handled using the same protocol as the actual samples. Concentrations detected in duplicate samples were similar to concentrations detected in the corresponding original well samples. The trip blank results showed no detected constituents. The laboratory analytical reports and chain-of-custody forms for the groundwater samples are provided in Attachment 2.

GROUNDWATER ANALYTICAL RESULTS

The groundwater contaminants of concern at the Site primarily consist of chlorinated hydrocarbons, including trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. Other chlorinated hydrocarbons, such as 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-DCE, and tetrachloroethene (PCE), were detected in monitoring wells at the Site, but the concentrations in most of these wells did not exceed the WDNR Enforcement Standard (ES). For the purposes of this report, the chlorinated hydrocarbons presented in the evaluation of groundwater quality will be TCE and the breakdown daughter products of TCE, including cis-1,2-DCE and vinyl chloride. The groundwater analytical results for the November 2019 groundwater sampling event are summarized on Table 3.



Detection Summary

The following table provides a summary of the monitoring wells in which groundwater concentrations exceeded the Preventive Action Limit (PAL) and/or ES and provides a general location of the ES exceedances on-Site. The ES exceedances appear to correspond to reported former operational areas in which chlorinated hydrocarbons were used during the manufacturing process.

| Compound | Monitoring Wells Exceeding the PAL, But Less Than ES | Monitoring Wells Exceeding the ES | ES Exceedance Location |
|----------------|--|--|--|
| TCE | MW-15, MW-37R, MW-38, OP-9 | MW-02, MW-04, MW-16, MW-17R, MW-18R, MW-39, MW-40, MW-41, MW-42, OP-02, OP-03, OP-14 | <ul style="list-style-type: none"> - In and downgradient of the southern degreasing area within the former building - In the northern portion of the former building |
| cis-1,2-DCE | MW-07R, MW-42, OP-09, OP-14 | MW-02, MW-16, MW-17R, MW-18R, MW-39, MW-40, OP-02, OP-03 | <ul style="list-style-type: none"> - In and downgradient of the southern degreasing area within the former building - In the northern portion of the former building |
| Vinyl Chloride | None | MW-07R, MW-12, MW-13R, MW-16, MW-17R, MW-18R, MW-19, MW-27, OP-02, OP-03, OP-09 | <ul style="list-style-type: none"> - In and downgradient of the southern degreasing area within the former building - In the northern portion of the former building |
| PCE | MW-04, MW-41 | OP-14 | - Downgradient of the southern degreasing area within the former building near Honey Creek |
| 1,1,1-TCA | MW-39, OP-02, OP-03 | MW-16, MW-40 | - In and downgradient of the southern degreasing area within the former building near the former Maintenance Shop |
| 1,1-DCA | MW-16, MW-40, OP-03 | None | - No Exceedances in November 2019 |
| 1,1-DCE | OP-02, OP-09 | MW-16, MW-39, MW-40, OP-03 | - In and downgradient of the southern degreasing area within the former building near the former Maintenance Shop |

Chlorinated Hydrocarbon Distribution

The November 2019 groundwater sample results confirm that there are two areas at the Site in which groundwater exceeds the ES for one or more chlorinated hydrocarbons. The first area is in the northern portion of the former building near MW-17R. This area of the building was used for vapor degreasing. The second area is in the southern portion of the former building and immediately east along Honey Creek. This area of the building was also used for vapor degreasing and contained an area identified as a maintenance shop. Figures 2, 3, and 4 illustrate the groundwater distribution of dissolved TCE, cis-1,2-DCE, and vinyl chloride, respectively.



The TCE distribution from the November 2019 sampling event is similar to the distribution observed in the previous sampling events. The highest concentrations of TCE detected in groundwater at the Site are in monitoring wells MW-42, OP-14, MW-18R, and OP-2. Monitoring wells MW-18R and MW-42 are located in a former degreasing area in the southern portion of the former building. OP-2 is located downgradient of this area to the south and OP-14 is located downgradient of this area to the southwest. The TCE-affected groundwater extends east of the former southern degreasing area. This eastern portion of the TCE-affected groundwater is likely the result of migration due to groundwater flow.

Monitoring well MW-17R also has elevated TCE concentrations. The elevated TCE concentrations in MW-17R could be associated with the degreasing operations that occurred in the northern portion of the former building. In a previous sampling event, elevated TCE concentrations were observed in OP-7; however, this well was not sampled during the November 2019 sampling event. A sample will be collected from this well in June 2020. The elevated TCE concentrations near OP-7 could be related to wastewater discharged into the former impoundment. The contamination in these two areas appears to be limited in extent, as indicated by TCE concentrations in adjacent monitoring wells that are less than the ES and/or an order of magnitude lower than these wells.

The groundwater analytical results, specifically, the presence of TCE and its daughter products, confirm that natural processes are degrading the chlorinated hydrocarbons under reducing conditions in some portions of the Site. In general, cis-1,2-DCE is detected in the same monitoring wells in which TCE is detected.

Vinyl chloride was detected in the same areas in which TCE and cis-1,2-DCE were detected. In five monitoring wells (MW-2, MW-4, MW-42, MW-40, and OP-14) sampled within the southern building near the former southern degreaser, the sample results from the November 2019 sampling events had elevated detection limits for vinyl chloride due to the level of TCE in the samples, therefore, the vinyl chloride concentrations were reported as less than an elevated detection limit that exceeded the ES. For the purposes of this report, the vinyl chloride concentrations in these wells are considered to exceed the ES. The area of vinyl chloride concentrations exceeding the ES extends from the southern degreaser area to the east beyond the extent of the TCE groundwater distribution into the AOC. In the AOC, TCE and cis-1,2-DCE are present at low concentrations and vinyl chloride is the only daughter product that exceeds the ES. The conditions in and beneath the AOC likely represent mildly anaerobic conditions due to the degradation of the chlorinated hydrocarbons. Vinyl chloride likely persists because it is more favorably degraded under strongly reducing or aerobic conditions.

In October 2019, an electron donor injection pilot test was performed to evaluate the effectiveness of ERD in facilitating the breakdown of the chlorinated hydrocarbons in an area near the southwest corner of the former building. Monitoring well MW-2 is downgradient of the injection area; the presence of cis-1,2-DCE in MW-2 during the November sampling event is due to the anaerobic conditions created by the injection of the electron donor. The presence of cis-1,2-DCE is an indication that ERD is a feasible remedial option for addressing and reducing the groundwater chlorinated hydrocarbon plume at the Site. A detailed discussion of the pilot test and post-injection monitoring results will be submitted to the WDNR under separate cover.

In the former southern degreasing area and former maintenance area, 1,1,1-TCA and 1,1-DCE were detected at concentrations exceeding the respective ESs. In this area, 1,1-DCA was also detected at concentrations exceeding the PAL, but chloroethane was not detected above the method detection limit. The presence of 1,1-DCA in this area indicates that dechlorination of 1,1,1-TCA is naturally occurring. However, the absence of chloroethane could be an indication that the degradation is not proceeding to completion. The extent of the chloroethane compounds in this area appears to be very limited based on sampling results from other wells in this area.

Other Observations

- The groundwater samples collected from the wells south of Honey Creek (MW-25 and MW-29) did not have detections of chlorinated hydrocarbons. Monitoring well MW-27, located immediately adjacent to the south side of Honey Creek,



had detections of vinyl chloride exceeding the ES. The continued absence of chlorinated hydrocarbons in monitoring wells MW-25 and MW-29 confirms that Honey Creek represents a hydraulic barrier to the migration of contaminants beneath and south of Honey Creek.

- Ethene was detected in MW-17R, OP-3, and OP-9. These monitoring wells are located in the AOC (OP-9), in the northern portion of the former building (MW-17R) and downgradient of the former maintenance shop area along Honey Creek (OP-3). Ethene was not detected in the injection pilot test area in November 2019, but is expected to be present in future sampling events as the dechlorination process proceeds in this area. The presence of the dissolved gas ethene in the groundwater samples suggests that the geochemical conditions of the shallow aquifer in certain areas of the Site are favorable for dechlorination and that the dechlorination process is proceeding to completion, as ethene represents one of the final dissolved gases in the degradation process. The completion of the dechlorination process may be limited by other geochemical factors that can be readily enhanced to increase the rate of degradation. The production of ethene can also be eliminated if TCE, cis-1,2-DCE, and vinyl chloride are degraded at approximately the same rate and vinyl chloride does not accumulate. The monitoring wells that did not detect ethene represent areas of the Site where degradation is not proceeding to completion.
- The field parameter that provides an indication of anaerobic, reducing conditions is the ORP. An ORP measurement of 50 mV and -100 mV indicates that mildly reducing conditions may exist and the reductive dechlorination pathway is possible. A measurement of -100 mV or less indicates that reducing conditions are present and that the reductive dechlorination pathway is likely. Figure 5 represents the ORP measurement distribution at the Site from the November 2019 groundwater sampling event and shows the areas where the reductive dechlorination pathway is possible and the area in which the reductive dechlorination pathway is likely. Based on the ORP measurements, the reductive dechlorination pathway is possible or likely in the areas in which chlorinated hydrocarbons are present at concentrations that exceed the ES. The reductive dechlorination pathway may be effective outside of these areas, but likely will require the introduction of an in-situ amendment to create the conditions to increase its effectiveness. In comparison to previous sampling events, the ORP distribution is similar with the exception of the ORP in MW-42. In previous sampling events, the ORP in MW-42 indicated that reductive dichlorination was possible, but since the electron donor injection pilot test in October 2019, the ORP in this well decreased to -163 mV, thereby confirming that reductive dichlorination of TCE to completion is likely. The presence of daughter products in this well is empirical evidence that reductive dechlorination is occurring.

CONCLUSIONS

Based on the results of the groundwater sampling performed in November 2019, a summary of the groundwater conditions at the Site are presented below:

- The horizontal direction of groundwater flow across the Site is south toward Honey Creek at an average horizontal hydraulic gradient of 0.017 ft/ft to 0.035 ft/ft. The hydraulic gradient near Honey Creek increases due to the topography along Honey Creek and the operation of the GETS wells along Honey Creek.
- Chlorinated hydrocarbons were detected above the respective ESs in two areas of the Site: one area in the northern portion of the former building and one area in the southern portion of the former building.
- Chlorinated hydrocarbons detected in the groundwater samples from the November 2019 sampling event included TCE; cis-1,2-DCE; vinyl chloride; PCE; 1,1,1-TCA; 1,1-DCA; and 1,1-DCE. Of these analytes, TCE, PCE, 1,1,1-TCA, 1,1-DCA, and 1,1-DCE were detected in exceedance of the ESs. TCE was generally detected at a concentration exceeding the ES in monitoring wells in which other chlorinated hydrocarbons were detected.



- The distribution of daughter products in the area of TCE-affected groundwater indicates that the chlorinated hydrocarbons are degrading under natural conditions. However, degradation is not occurring in some areas of the Site and can be enhanced in all areas to increase the rate of degradation.
- The ERD injection pilot test was performed in October 2019, in the area of the southwest corner of the former building. This area was selected for the pilot test because there was little indication that the dechlorination process was occurring there. The November 2019 groundwater sample results from MW-42 in this area indicate that the pilot test has created conditions favorable for reductive dechlorination, as shown by the presence of the daughter product cis-1,2-DCE in monitoring well MW-42.
- The results of the field indicator parameter ORP indicate that reductive dechlorination is occurring or can likely occur across most of the Site. The ORP measured in MW-42 in the pilot test area indicates that the injection pilot test has reduced the ORP to levels indicating that the conditions for reductive dechlorination of TCE are favorable.

NEXT STEPS


Based on the groundwater sampling performed in November 2019, and the results of the injection pilot test (which will be presented in a separate report), the following activities are anticipated to be completed by GZA in 2020:


- Prepare and submit an Injection Workplan for full-scale implementation of an ERD groundwater remedial strategy to the WDNR for review and approval. This plan will include the details regarding the injection of an amendment, including the area of injection, number of points, volume of amendment, and post-injection monitoring plan; and
- Prepare and submit a NR 140 variance and WPDES permit request associated with the amendment injection.

If you have any questions regarding this information, please contact Mr. Hedinger at (262) 754-2578 or by email at kevin.hedinger@gza.com.

Sincerely,

GZA GeoEnvironmental, Inc.


Kevin M. Hedinger
Senior Hydrogeologist


James F. Drought, P.H.
Principal Hydrogeologist

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Attachments: Tables 1 through 3
Figures 1 through 5
Limitations
Laboratory Analytical Reports and Chain-of-Custody Forms

cc: Benne Hutson, EnPro Industries, Inc.
Edward Witte, Godfrey & Kahn LLP



TABLES



TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
Former Trent Tube Plant No. 1
2188 Church Street
East Troy, Wisconsin

| WELL ID | NORTH | EAST | DATE | GROUND SURFACE ELEVATION* (feet amsl) | TOC ELEVATION (feet)* | DEPTH TO WATER (feet) | DEPTH TO BOTTOM (feet) | GROUNDWATER ELEVATION (feet) |
|---------|-------------|------------|------------|---------------------------------------|-----------------------|-----------------------|------------------------|------------------------------|
| MW-1R | 15542906.13 | 1263470.32 | 11/20/2019 | 837.88 | 839.95 | 13.03 | NM | 826.92 |
| MW-2 | 15542801.87 | 1263478.62 | 11/20/2019 | 834.15 | 836.8 | 9.86 | NM | 826.94 |
| MW-4 | 15542726.05 | 1263625.68 | 11/20/2019 | 837.14 | 838.97 | 12.39 | NM | 826.58 |
| MW-7R | 15542916.44 | 1264282.04 | 11/21/2019 | 821.97 | 824.44 | 5.51 | NM | 818.93 |
| MW-11 | 15543255.49 | 1263495.29 | 11/21/2019 | 844.61 | 844.33 | 11.1 | NM | 833.23 |
| MW-12 | 15543080.14 | 1264204.76 | 11/20/2019 | 837.68 | 839.27 | 12.58 | NM | 826.69 |
| MW-13R | | | 11/20/2019 | 835.84 | 838.34 | 12.69 | NM | 825.65 |
| MW-15 | 15543133.19 | 1264382.74 | 11/21/2019 | 830.24 | 832.63 | 13 | NM | 819.63 |
| MW-16 | 15542813.05 | 1263725.11 | 11/20/2019 | 837.29 | 839.39 | 11.20 | NM | 828.19 |
| MW-17R | 15543077.88 | 1263725.29 | 11/21/2019 | 836.96 | 839.24 | 6.52 | NM | 832.72 |
| MW-18R | | | 11/21/2019 | 837.10 | 839.76 | 10.20 | NM | 829.56 |
| MW-19 | 15542879.48 | 1264308 | 11/21/2019 | 818.85 | 822.59 | 4.12 | NM | 818.47 |
| MW-20 | 15543135.67 | 1264489.58 | 11/21/2019 | 821.53 | 823.72 | 4.27 | NM | 819.45 |
| MW-25 | 15542680.62 | 1264216.31 | 11/20/2019 | 821.17 | 823.63 | 5.52 | NM | 818.11 |
| MW-27 | 15542574.43 | 1263906.19 | 11/20/2019 | 824.54 | 827.52 | 4.09 | NM | 823.43 |
| MW-29 | 15542434.19 | 1264197.84 | 11/20/2019 | 825.61 | 828.91 | 5.50 | NM | 823.41 |
| MW-37R | 15543007.42 | 1263758.84 | 11/21/2019 | 837.36 | 839.41 | 7.46 | NM | 831.95 |
| MW-38 | | | 11/20/2019 | 836.40 | 839.15 | 10.28 | 19.3 | 828.87 |
| MW-39 | | | 11/21/2019 | 837.29 | 840.45 | 12.62 | 22.05 | 827.83 |
| MW-40 | | | 11/20/2019 | 837.44 | 840.35 | 12.46 | 20.4 | 827.89 |
| MW-41 | | | 11/20/2019 | 836.73 | 839.48 | 12.16 | 22.1 | 827.32 |
| MW-42 | | | 11/20/2019 | 837.20 | 839.70 | 11.74 | 22.3 | 827.96 |
| OP-2 | 15542625.55 | 1263776.69 | 11/20/2019 | 833.95 | 836.69 | 15.19 | 22.6 | 821.50 |
| OP-3 | 15542699.53 | 1263909.48 | 11/20/2019 | 830.64 | 831.29 | 13.11 | 19.45 | 818.18 |
| OP-9 | 15542998.67 | 1264155.38 | 11/20/2019 | 836.39 | 838.54 | 11.81 | 23.5 | 826.73 |
| OP-14 | 15542735.68 | 1263504.52 | 11/20/2019 | 837.15 | 837.86 | 10.81 | 21.95 | 827.05 |

Notes

1. TOC = Top of Casing
2. feet amsl = feet above mean sea level



TABLE 2
SUMMARY OF FIELD PARAMETERS
MONITORING WELLS
Former Trent Tube Plant No. 1
2188 Church Street
East Troy, Wisconsin

| Well ID | Date | Depth to Water (ft btoc) | Depth to Bottom (ft btoc) | Well Purge Rate (ml/min) | DO (mg/L) | ORP (mV) | Conductivity (µS/cm) | Temperature (°Celsius) | pH (s.u.) |
|---------|------------|--------------------------|---------------------------|--------------------------|-----------|----------|----------------------|------------------------|-----------|
| MW-1R | 11/20/2019 | 13.03 | 25.06 | 300 | 0 | 63 | 1,170 | 8.7 | 7.37 |
| MW-2 | 11/20/2019 | 9.86 | 13.96 | 250 | 0.42 | 120 | 1,330 | 7.85 | 6.17 |
| MW-4 | 11/20/2019 | 12.39 | 22.4 | 300 | 0 | -137 | 568 | 7.39 | 8.73 |
| MW-7R | 11/21/2019 | 5.51 | 13.78 | 300 | 4.14 | -97 | 1,070 | 11.05 | 6.7 |
| MW-11 | 11/21/2019 | 11.1 | 18.6 | 300 | 0.87 | 120 | 595 | 10.8 | 7.34 |
| MW-12 | 11/20/2019 | 12.58 | 20.64 | 200 | 7.78 | -102 | 1,040 | 11.02 | 6.46 |
| MW-13R | 11/20/2019 | 12.69 | 20.49 | 200 | 2.82 | -64 | 1,020 | 10.18 | 6.55 |
| MW-15 | 11/21/2019 | 13 | 18.95 | 275 | 0 | 47 | 1,260 | 12.34 | 7.13 |
| MW-16 | 11/20/2019 | 11.2 | 26.5 | 300 | 0 | -178 | 758 | 10.04 | 7.06 |
| MW-17R | 11/21/2019 | 6.52 | 19.2 | 300 | 0 | -221 | 788 | 10.96 | 10.74 |
| MW-18R | 11/21/2019 | 10.2 | 22.4 | 300 | 0 | 35 | 575 | 10.81 | 7.63 |
| MW-19 | 11/21/2019 | 4.12 | 10.38 | 200 | 1.18 | -115 | 1,170 | 10.06 | 7.13 |
| MW-20 | 11/21/2019 | 4.27 | 11.56 | 300 | 0 | 32 | 770 | 13.01 | 6.6 |
| MW-25 | 11/20/2019 | 5.52 | 14.92 | 250 | 0 | -150 | 1,470 | 6.54 | 6.89 |
| MW-27 | 11/20/2019 | 4.09 | 14.05 | 250 | 0 | -151 | 2,280 | 7.58 | 7.14 |
| MW-29 | 11/20/2019 | 5.5 | 14.91 | 300 | 9.21 | 156 | 1,210 | 4.46 | 6.99 |
| MW37R | 11/21/2019 | 7.46 | 18.6 | 300 | 0.46 | 66 | 387 | 10.86 | 7.82 |
| MW-38 | 11/20/2019 | 10.28 | 19.3 | 200 | 2.3 | -64 | 526 | 10.24 | 7.14 |
| MW-39 | 11/21/2019 | 12.62 | 22.05 | 300 | 0 | 56 | 555 | 10.5 | 7.41 |
| MW-40 | 11/20/2019 | 12.46 | 20.4 | 300 | 0 | 68 | 786 | 10.37 | 6.64 |
| MW-41 | 11/20/2019 | 12.16 | 22.1 | 300 | 3.02 | -15 | 753 | 9.48 | 7.49 |
| MW-42 | 11/20/2019 | 11.74 | 22.3 | 300 | 1.16 | -181 | 1,120 | 11.16 | 6.82 |
| OP-2 | 11/20/2019 | 15.19 | 22.6 | 300 | 8.13 | 68 | 396 | 10.38 | 8.6 |
| OP-3 | 11/20/2019 | 13.11 | 19.45 | 300 | 5.66 | 32 | 665 | 11.11 | 7.93 |
| OP-9 | 11/20/2019 | 11.81 | 27.3 | 200 | 0 | -54 | 1,940 | 10.71 | 6.25 |
| OP-14 | 11/20/2019 | 10.81 | 21.95 | 150 | 3.92 | 105 | 321 | 8.41 | 7.23 |

Notes

1. ft btoc = feet below top of casing.
2. ml/min = milliliters per minute.
3. DO = dissolved oxygen.
4. mg/L = milligrams per liter.
5. ORP = oxidation reduction potential.
6. mV = millivolts.
7. µS/cm = microSiemens per centimeter.
8. s.u. = Standard Units.



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 Former Trent Tube Plant No. 1
 2188 Church Street
 East Troy, Wisconsin

| | | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | 1,1-Dichloroethane | 1,1-Dichloroethene | 1,2-Dichloroethane | Benzene | Chloroethane | Methylene Chloride | Naphthalene | Tetrachloroethene | Toluene | Trichloroethene | Vinyl chloride | cis-1,2-Dichloroethene | o-Xylene |
|--------------------------------|-------------|-----------------------|-----------------------|--------------------|--------------------|--------------------|----------|--------------|--------------------|-------------|-------------------|----------|-----------------|----------------|------------------------|----------|
| Preventive Action Limit | | 40 | 0.5 | 85 | 0.7 | 0.5 | 0.5 | 80 | 0.5 | 10 | 0.5 | 160 | 0.5 | 0.02 | 7 | 400 |
| Enforcement Standard | | 200 | 5 | 850 | 7 | 5 | 5 | 400 | 5 | 100 | 5 | 800 | 5 | 0.2 | 70 | 2000 |
| Well Number | Date | | | | | | | | | | | | | | | |
| MW-01R | 11/20/2019 | 0.9 J | < 0.55 U | 1.4 | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | 0.49 J | < 0.17 U | < 0.26 U | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-02 | 11/20/2019 | < 6.1 U | < 13.8 U | < 6.8 U | < 6.1 U | < 7 U | < 6.2 U | < 33.6 U | < 14.5 U | < 29.4 U | < 8.2 U | < 4.3 U | 240 | < 4.4 U | 1,230 | < 6.5 U |
| MW-04 | 11/20/2019 | 2.4 J | < 1.4 U | < 0.68 U | < 0.61 U | < 0.7 U | < 0.62 U | < 3.4 U | < 1.5 U | < 2.9 U | 2.5 J | < 0.43 U | 132 | < 0.44 U | 5.2 | < 0.65 U |
| MW-07R | 11/21/2019 | < 0.24 U | < 0.55 U | 1.5 | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | 6.7 | 7 | < 0.26 U |
| MW-11 | 11/21/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-12 | 11/20/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | 0.4 J | < 0.27 U | < 0.26 U |
| MW-13R | 11/20/2019 | < 0.24 U | < 0.55 U | 1.8 | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | 10 | 2.8 | < 0.26 U |
| MW-15 | 11/21/2019 | 29.6 | < 0.55 U | 17.4 | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | 1.9 | < 0.17 U | 1.6 | < 0.26 U |
| MW-16 | 11/20/2019 | 1,080 | < 11 U | 87.4 | 13.8 J | < 5.6 U | < 4.9 U | < 26.8 U | < 11.6 U | < 23.5 U | < 6.5 U | < 3.4 U | 33.8 | 9.8 J | 809 | < 5.2 U |
| MW-17R | 11/21/2019 | < 2.4 U | < 5.5 U | < 2.7 U | < 2.4 U | < 2.8 U | < 2.5 U | < 13.4 U | < 5.8 U | < 11.8 U | < 3.3 U | < 1.7 U | 449 | 14 | 222 | < 2.6 U |
| MW-18R | 11/21/2019 | < 4.9 U | < 11 U | < 5.5 U | < 4.9 U | < 5.6 U | < 4.9 U | < 26.8 U | < 11.6 U | < 23.5 U | < 6.5 U | < 3.4 U | 912 | 38.4 | 537 | < 5.2 U |
| MW-19 | 11/21/2019 | < 0.24 U | < 0.55 U | 0.44 J | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | 5.1 | 0.86 J | < 0.26 U |
| MW-20 | 11/21/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-25 | 11/20/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-27 | 11/20/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | 1.2 J | < 0.33 U | < 0.17 U | < 0.26 U | 0.3 J | 0.34 J | < 0.26 U |
| MW-29 | 11/20/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | < 0.26 U | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-37R | 11/21/2019 | < 0.24 U | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | 0.39 J | < 0.17 U | 1.8 | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-38 | 11/20/2019 | 0.31 J | < 0.55 U | < 0.27 U | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | 0.57 J | < 0.17 U | < 0.27 U | < 0.26 U |
| MW-39 | 11/21/2019 | 55.6 | < 5.5 U | 17.6 | 16 | < 2.8 U | < 2.5 U | < 13.4 U | < 5.8 U | < 11.8 U | < 3.3 U | < 1.7 U | 466 | < 1.7 U | 244 | < 2.6 U |
| MW-40 | 11/20/2019 | 10,900 | < 55.2 U | 336 | 283 | < 28 U | < 24.6 U | < 134 U | < 58.1 U | < 118 U | < 32.6 U | < 17.2 U | 231 | < 17.5 U | 739 | < 26.2 U |
| MW-41 | 11/20/2019 | 2.1 | < 0.55 U | 1.7 | < 0.24 U | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | 1.1 J | < 0.17 U | 30.2 | < 0.17 U | 3.6 | < 0.26 U |
| MW-42 | 11/20/2019 | < 24.5 U | < 55.2 U | < 27.3 U | < 24.5 U | < 28 U | < 24.6 U | < 134 U | < 58.1 U | < 118 U | < 32.6 U | < 17.2 U | 4,770 | < 17.5 U | 35.1 J | < 26.2 U |
| OP-02 | 11/20/2019 | 167 | < 2.8 U | 25.5 | 6.9 | < 1.4 U | < 1.2 U | < 6.7 U | < 2.9 U | < 5.9 U | < 1.6 U | < 0.86 U | 698 | 5.8 | 642 | < 1.3 U |
| OP-03 | 11/20/2019 | 179 | < 2.8 U | 90.7 | 27.5 | < 1.4 U | < 1.2 U | 8.7 J | < 2.9 U | < 5.9 U | < 1.6 U | < 0.86 U | 474 | 49.4 | 382 | < 1.3 U |
| OP-09 | 11/20/2019 | < 0.24 U | < 0.55 U | 1 | 1.4 | < 0.28 U | < 0.25 U | < 1.3 U | < 0.58 U | < 1.2 U | < 0.33 U | < 0.17 U | 4.2 | 42.6 | 39.9 | < 0.26 U |
| OP-14 | 11/20/2019 | 3.6 J | < 2.2 U | < 1.1 U | < 0.98 U | < 1.1 U | < 0.99 U | < 5.4 U | < 2.3 U | < 4.7 U | 11.5 | < 0.69 U | 914 | < 0.7 U | 13.1 | < 1 U |



TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Former Trent Tube Plant No. 1
2188 Church Street
East Troy, Wisconsin

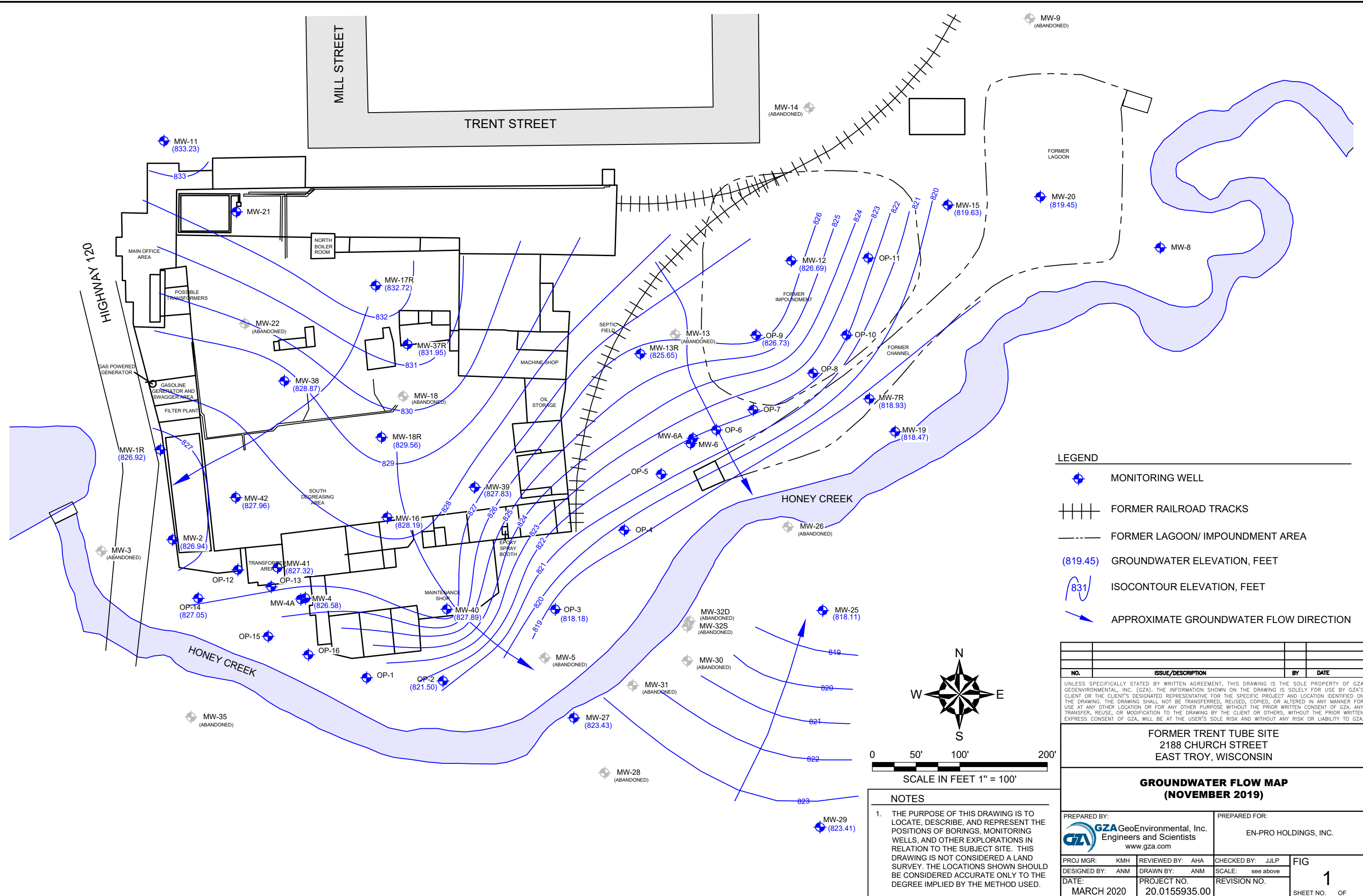
| | | trans-1,2-Dichloroethene | Ethane | Ethene | Methane | Iron, dissolved | Manganese, dissolved | Sulfate (mg/L) | Alkalinity, total as CaCO3 (mg/L) | Total Organic Carbon (mg/L) |
|--------------------------------|------------|--------------------------|---------|---------|----------|-----------------|----------------------|----------------|-----------------------------------|-----------------------------|
| Preventive Action Limit | | 20 | NS | NS | NS | NS | 60 | NS | NS | NS |
| Enforcement Standard | | 100 | NS | NS | NS | 300 | 300 | NS | NS | NS |
| Well Number | Date | | | | | | | | | |
| MW-01R | 11/20/2019 | < 1.1 U | < 1.2 U | < 1.2 U | < 0.66 U | < 29.6 U | 79.6 | 233 | 309 | 5.7 |
| MW-02 | 11/20/2019 | < 27.3 U | < 1.2 U | < 1.2 U | < 0.66 U | < 29.6 U | 9,220 | 84.9 | 809 | 171 |
| MW-04 | 11/20/2019 | < 2.7 U | < 1.2 U | < 1.2 U | < 0.66 U | 246 | 1,060 | 41 | 270 | 4.7 |
| MW-07R | 11/21/2019 | < 1.1 U | 18.5 | < 1.2 U | 479 | 13,400 | 610 | 70 | 667 | 7.4 |
| MW-11 | 11/21/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-12 | 11/20/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-13R | 11/20/2019 | 1.4 J | 6.3 | < 1.2 U | 248 | 5,840 | 1,100 | 102 | 522 | 5.5 |
| MW-15 | 11/21/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | 11/20/2019 | 36.8 J | < 1.2 U | < 1.2 U | 22.6 | 1,110 | 75.4 | 62.4 | 431 | 2.1 |
| MW-17R | 11/21/2019 | 18.3 J | < 1.2 U | 3.5 J | 216 | < 29.6 U | < 1.1 U | 161 | 138 | 14.4 |
| MW-18R | 11/21/2019 | < 21.8 U | < 1.2 U | < 1.2 U | 263 | < 29.6 U | 742 | 78.4 | 299 | 1.7 |
| MW-19 | 11/21/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-20 | 11/21/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-25 | 11/20/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-27 | 11/20/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-29 | 11/20/2019 | < 1.1 U | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-37R | 11/21/2019 | < 1.1 U | < 1.2 U | < 1.2 U | < 0.66 U | < 29.6 U | < 1.1 U | 27.7 | 205 | 1.5 |
| MW-38 | 11/20/2019 | < 1.1 U | < 1.2 U | < 1.2 U | < 0.66 U | < 29.6 U | < 1.1 U | 92.4 | 207 | NA |
| MW-39 | 11/21/2019 | 40.2 | < 1.2 U | < 1.2 U | 14.5 | < 29.6 U | 62.3 | 45.4 | 270 | 2.1 |
| MW-40 | 11/20/2019 | < 109 U | < 1.2 U | < 1.2 U | 14.8 | < 29.6 U | 9.6 | 62.2 | 443 | 2.5 |
| MW-41 | 11/20/2019 | < 1.1 U | < 1.2 U | < 1.2 U | < 0.66 U | 93 J | 805 | 43.1 | 401 | 57.7 |
| MW-42 | 11/20/2019 | < 109 U | < 1.2 U | < 1.2 U | < 0.66 U | 9,760 | 1,070 | 48.1 | 585 | 124 |
| OP-02 | 11/20/2019 | < 5.5 U | < 1.2 U | < 1.2 U | < 0.66 U | < 29.6 U | 2 J | 75.8 | 403 | 2.3 |
| OP-03 | 11/20/2019 | 11.8 J | 6.6 | 7.1 | 272 | 502 | 188 | 37.5 | 396 | 2.3 |
| OP-09 | 11/20/2019 | 9.7 | 18.8 | 3.6 J | 156 | 8,080 | 2,610 | 742 | 475 | NA |
| OP-14 | 11/20/2019 | < 4.4 U | < 1.2 U | < 1.2 U | < 0.66 U | 601 | 27 | 88.5 | 395 | 4.3 |

Notes

1. Results are reported in micrograms per liter (µg/L), unless otherwise noted.
2. NS = No Standard.
3. NA = Not Analyzed.
4. < or U = Indicates compound was analyzed for, but not detected at or above the adjusted limit of detection.
5. J = Estimated concentration at or above the limit of detection and below the limit of quantitation.
6. Gray shading indicates that the reported concentration exceeds the Preventive Action Limit (PAL).
7. **BOLD** indicates that the reported concentration exceeds the Enforcement Standard (ES).



FIGURES



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (819.45) GROUNDWATER ELEVATION, FEET
- 831 ISOCONTOUR ELEVATION, FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION

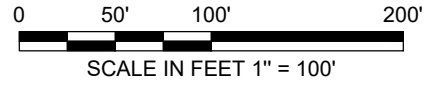
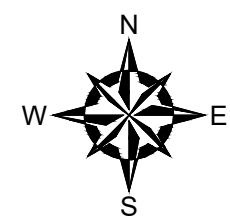
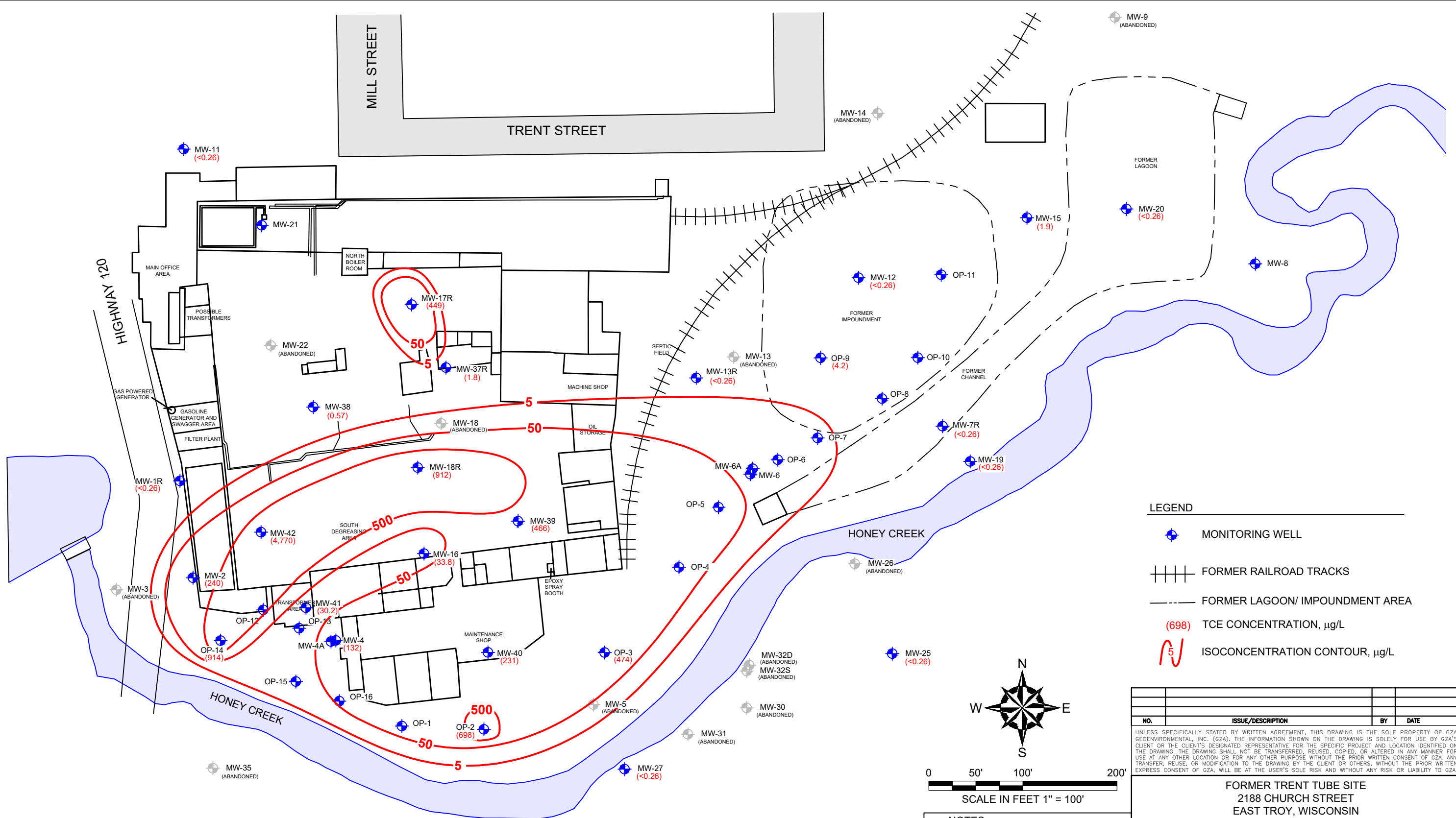
N
 W E
 S

0 50' 100' 200'
 SCALE IN FEET 1" = 100'

NOTES

1. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

| NO. | ISSUE/DESCRIPTION | BY | DATE |
|--|--|--|--|
| UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA. | | | |
| FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN | | | |
| GROUNDWATER FLOW MAP (NOVEMBER 2019) | | | |
| PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com | | PREPARED FOR: EN-PRO HOLDINGS, INC. | |
| PROJ MGR: KMH DESIGNED BY: ANM DATE: MARCH 2020 | REVIEWED BY: AHA DRAWN BY: ANM PROJECT NO. 20.0155935.00 | CHECKED BY: JJLP SCALE: see above REVISION NO. | FIG <div style="text-align: center; font-size: 24pt; font-weight: bold;">1</div> SHEET NO. OF |



- NOTES**
1. THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).
 2. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (698) TCE CONCENTRATION, µg/L
- ISOCONCENTRATION CONTOUR, µg/L

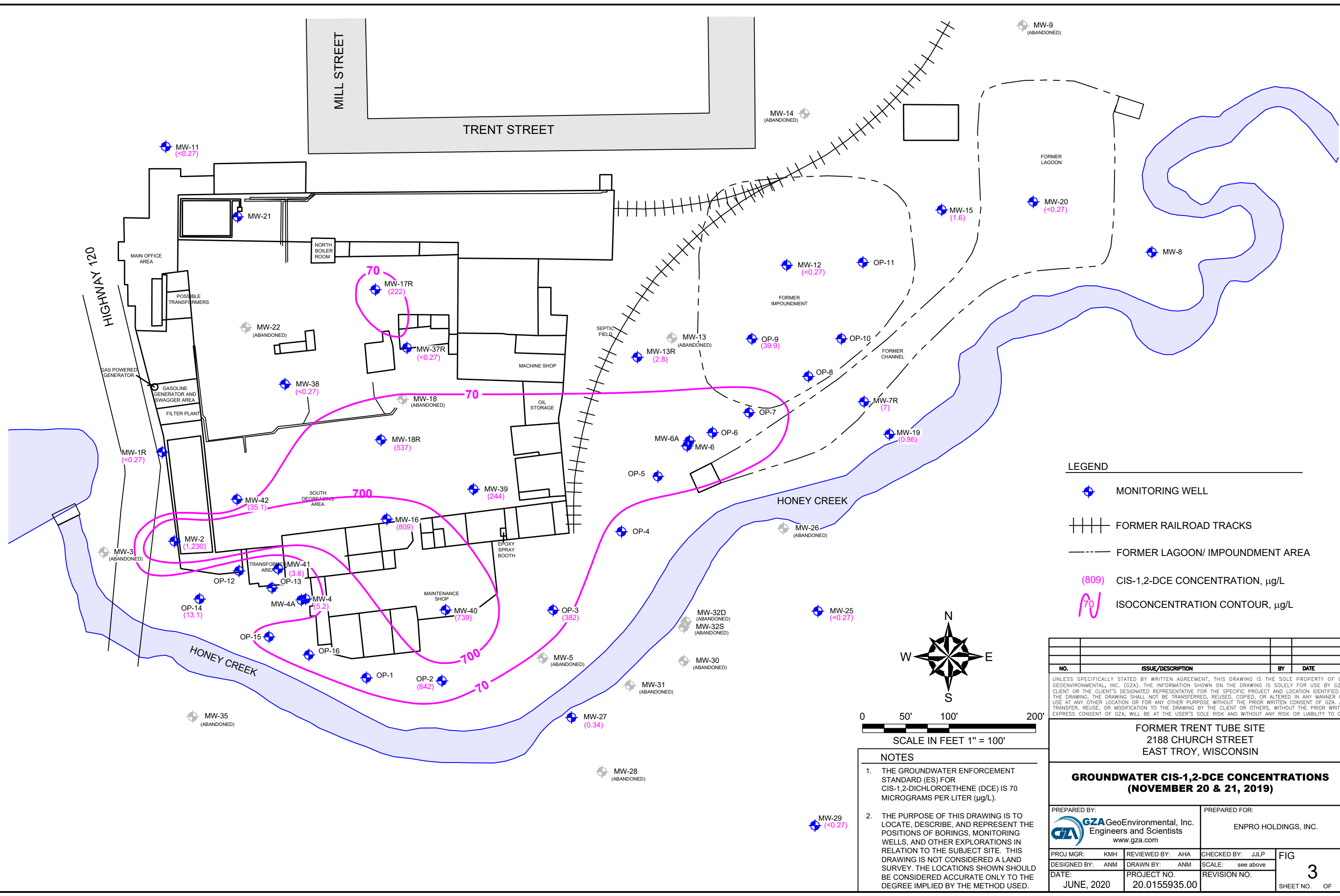
| NO. | ISSUE/DESCRIPTION | BY | DATE |
|-----|-------------------|----|------|
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FORMER TRENT TUBE SITE
2188 CHURCH STREET
EAST TROY, WISCONSIN

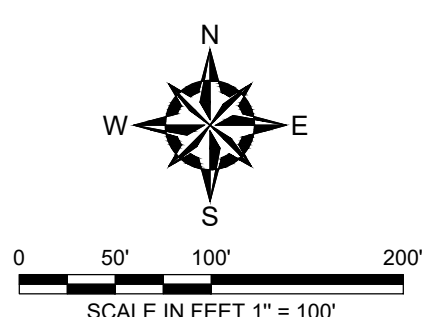
GROUNDWATER TCE CONCENTRATIONS
(NOVEMBER 20 & 21, 2019)

| | | | |
|--|---------------------------|---|----------|
| PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com | | PREPARED FOR: ENPRO HOLDINGS, INC. | |
| PROJ MGR: KMH | REVIEWED BY: AHA | CHECKED BY: JLP | FIG |
| DESIGNED BY: ANM | DRAWN BY: ANM | SCALE: see above | 2 |
| DATE: JUNE, 2020 | PROJECT NO: 20.0155935.00 | REVISION NO. | |



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (809) CIS-1,2-DCE CONCENTRATION, µg/L
- 70 ISOCONCENTRATION CONTOUR, µg/L



- NOTES**
- THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR CIS-1,2-DICHLOROETHENE (DCE) IS 70 MICROGRAMS PER LITER (µg/L).
 - THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

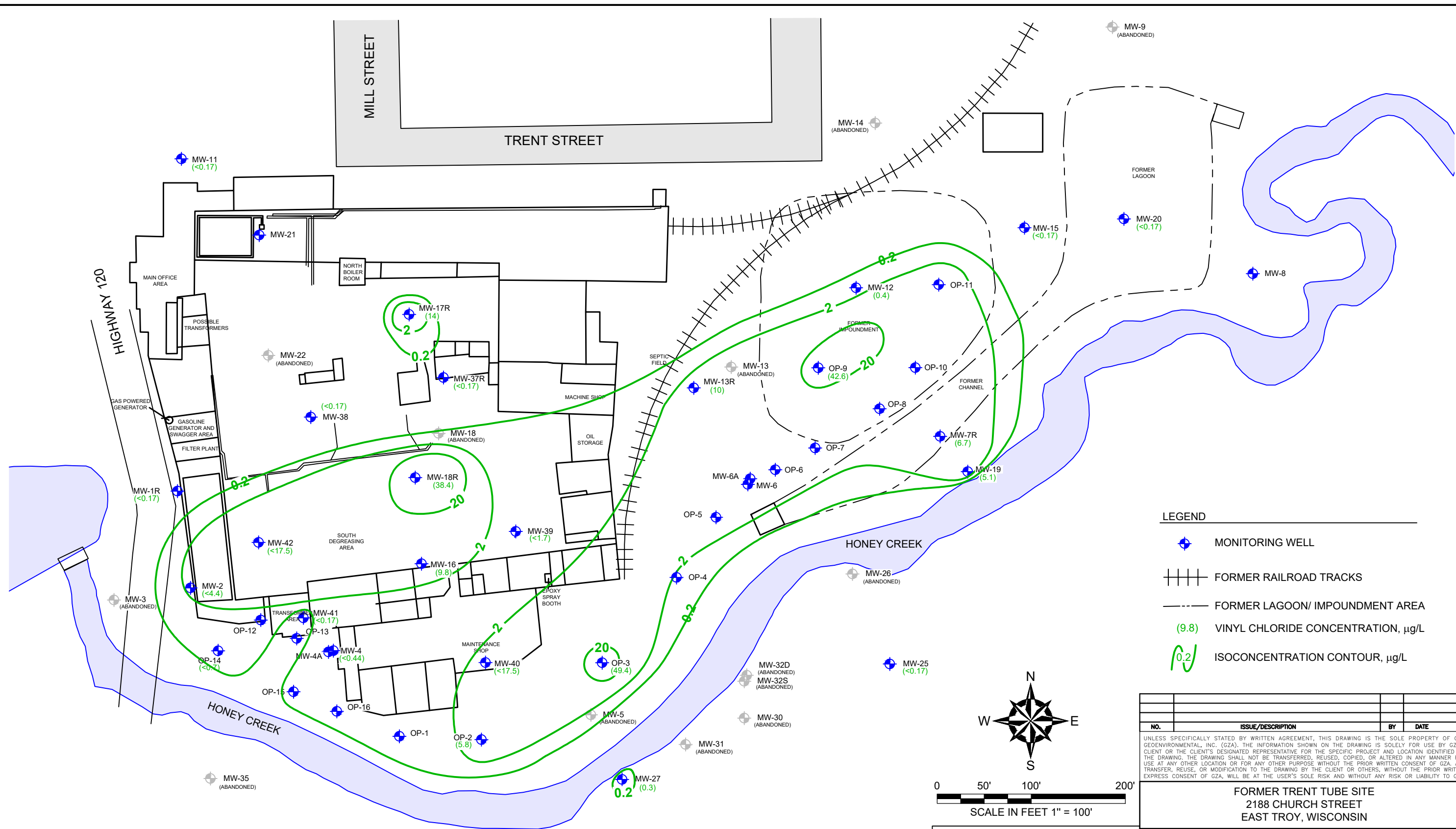
| NO. | ISSUE/DESCRIPTION | BY | DATE |
|-----|-------------------|----|------|
| | | | |

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FORMER TRENT TUBE SITE
2188 CHURCH STREET
EAST TROY, WISCONSIN

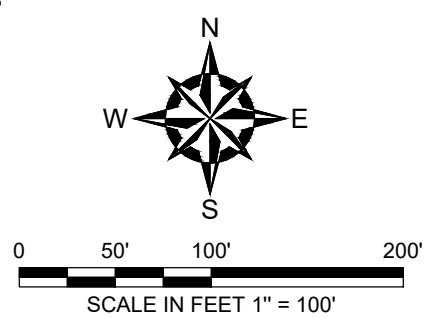
GROUNDWATER CIS-1,2-DCE CONCENTRATIONS
(NOVEMBER 20 & 21, 2019)

| | | | |
|--|---------------------------|---------------------------------------|----------|
| PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com | | PREPARED FOR: ENPRO HOLDINGS, INC. | |
| PROJ MGR: KMH | REVIEWED BY: AHA | CHECKED BY: JLP | FIG |
| DESIGNED BY: ANM | DRAWN BY: ANM | SCALE: see above | 3 |
| DATE: JUNE, 2020 | PROJECT NO: 20.0155935.00 | REVISION NO. | |



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- VINYL CHLORIDE CONCENTRATION, $\mu\text{g/L}$
- ISOCONCENTRATION CONTOUR, $\mu\text{g/L}$



NOTES

1. THE GROUNDWATER ENFORCEMENT (ES) STANDARD FOR VINYL CHLORIDE IS 0.2 MICROGRAMS PER LITER ($\mu\text{g/L}$).
2. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

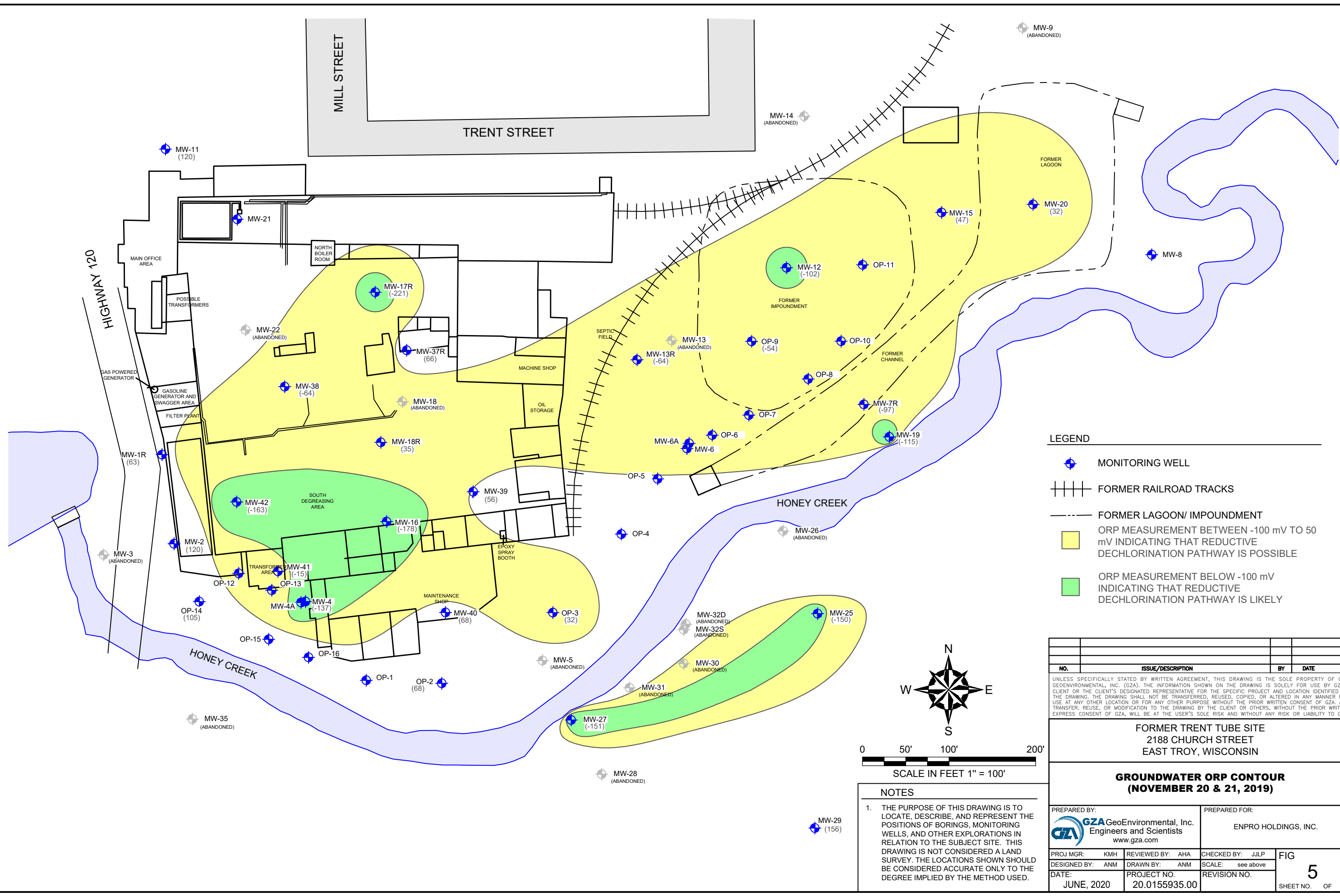
| NO. | ISSUE/DESCRIPTION | BY | DATE |
|-----|-------------------|----|------|
| | | | |

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FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

GROUNDWATER VINYL CHLORIDE CONCENTRATIONS
(NOVEMBER 20 & 21, 2019)

| | | | |
|--|---------------------------|---------------------------------------|-----|
| PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com | | PREPARED FOR: ENPRO HOLDINGS, INC. | |
| PROJ MGR: KMH | REVIEWED BY: AHA | CHECKED BY: JLP | FIG |
| DESIGNED BY: ANM | DRAWN BY: ANM | SCALE: see above | 4 |
| DATE: JUNE, 2020 | PROJECT NO. 20.0155935.00 | REVISION NO. | |



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT
- ORP MEASUREMENT BETWEEN -100 mV TO 50 mV INDICATING THAT REDUCTIVE DECHLORINATION PATHWAY IS POSSIBLE
- ORP MEASUREMENT BELOW -100 mV INDICATING THAT REDUCTIVE DECHLORINATION PATHWAY IS LIKELY

SCALE IN FEET 1" = 100'

NOTES

1. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

| NO. | ISSUE/DESCRIPTION | BY | DATE |
|-----|-------------------|----|------|
| | | | |

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

GROUNDWATER ORP CONTOUR
(NOVEMBER 20 & 21, 2019)

| | | | |
|--|---------------------------|---------------------------------------|----------|
| PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com | | PREPARED FOR: ENPRO HOLDINGS, INC. | |
| PROJ MGR: KMH | REVIEWED BY: AHA | CHECKED BY: JLP | FIG |
| DESIGNED BY: ANM | DRAWN BY: ANM | SCALE: see above | 5 |
| DATE: JUNE, 2020 | PROJECT NO. 20.0155935.00 | REVISION NO. | |



ATTACHMENT 1

Limitations



LIMITATIONS

STANDARD OF CARE

1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
3. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

4. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
5. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

6. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

7. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
8. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
9. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.



INTERPRETATION OF DATA

10. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

11. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

12. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.



ATTACHMENT 2

Laboratory Analytical Reports and Chain-of-Custody Forms

December 05, 2019

Kevin Hedinger
GZA
20900 Swenson Drive
Suite 150
Waukesha, WI 53186

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 40199775001 | MW-1R | Water | 11/20/19 10:14 | 11/22/19 08:55 |
| 40199775002 | OP-14 | Water | 11/20/19 11:11 | 11/22/19 08:55 |
| 40199775003 | MW-2 | Water | 11/20/19 10:21 | 11/22/19 08:55 |
| 40199775004 | MW-4 | Water | 11/20/19 11:08 | 11/22/19 08:55 |
| 40199775005 | MW-42 | Water | 11/20/19 12:03 | 11/22/19 08:55 |
| 40199775006 | OP-9 | Water | 11/20/19 14:03 | 11/22/19 08:55 |
| 40199775007 | MW-38 | Water | 11/20/19 12:38 | 11/22/19 08:55 |
| 40199775008 | MW-29 | Water | 11/20/19 08:23 | 11/22/19 08:55 |
| 40199775009 | DUP | Water | 11/20/19 00:00 | 11/22/19 08:55 |
| 40199775010 | MW-40 | Water | 11/20/19 13:24 | 11/22/19 08:55 |
| 40199775011 | MW-16 | Water | 11/20/19 12:37 | 11/22/19 08:55 |
| 40199775012 | OP-2 | Water | 11/20/19 14:08 | 11/22/19 08:55 |
| 40199775013 | MW-25 | Water | 11/20/19 08:50 | 11/22/19 08:55 |
| 40199775014 | MW-27 | Water | 11/20/19 09:27 | 11/22/19 08:55 |
| 40199775015 | MW-13R | Water | 11/20/19 13:33 | 11/22/19 08:55 |
| 40199775016 | MW-12 | Water | 11/20/19 14:33 | 11/22/19 08:55 |
| 40199775017 | MW-41 | Water | 11/20/19 11:54 | 11/22/19 08:55 |
| 40199775018 | OP-3 | Water | 11/20/19 14:50 | 11/22/19 08:55 |
| 40199775019 | TRIP | Water | 11/20/19 00:00 | 11/22/19 08:55 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------------------|----------|-------------------|------------|
| 40199775001 | MW-1R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775002 | OP-14 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775003 | MW-2 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775004 | MW-4 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775005 | MW-42 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775006 | OP-9 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| 40199775007 | MW-38 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|--------------------|---------------|--------------------|----------|-------------------|------------|
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| 40199775008 | MW-29 | EPA 8260 | HNW | 64 | PASI-G |
| 40199775009 | DUP | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775010 | MW-40 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775011 | MW-16 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775012 | OP-2 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775013 | MW-25 | EPA 8260 | HNW | 64 | PASI-G |
| 40199775014 | MW-27 | EPA 8260 | HNW | 64 | PASI-G |
| 40199775015 | MW-13R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775016 | MW-12 | EPA 8260 | HNW | 64 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------------------|----------|-------------------|------------|
| 40199775017 | MW-41 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775018 | OP-3 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | HNW | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199775019 | TRIP | EPA 8260 | HNW | 64 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40199775001 | MW-1R | | | | | |
| EPA 6010 | Manganese, Dissolved | 79.6 | ug/L | 5.0 | 11/26/19 20:31 | |
| EPA 8260 | 1,1,1-Trichloroethane | 0.90J | ug/L | 1.0 | 11/26/19 12:53 | |
| EPA 8260 | 1,1-Dichloroethane | 1.4 | ug/L | 1.0 | 11/26/19 12:53 | |
| EPA 8260 | Tetrachloroethene | 0.49J | ug/L | 1.1 | 11/26/19 12:53 | |
| EPA 300.0 | Sulfate | 233 | mg/L | 40.0 | 12/04/19 11:43 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 309 | mg/L | 23.5 | 12/03/19 12:21 | |
| SM 5310C | Total Organic Carbon | 5.7 | mg/L | 3.0 | 12/03/19 16:18 | |
| 40199775002 | OP-14 | | | | | |
| EPA 6010 | Iron, Dissolved | 601 | ug/L | 100 | 11/26/19 20:38 | |
| EPA 6010 | Manganese, Dissolved | 27.0 | ug/L | 5.0 | 11/26/19 20:38 | |
| EPA 8260 | 1,1,1-Trichloroethane | 3.6J | ug/L | 4.0 | 11/26/19 09:18 | |
| EPA 8260 | Tetrachloroethene | 11.5 | ug/L | 4.4 | 11/26/19 09:18 | |
| EPA 8260 | Trichloroethene | 914 | ug/L | 4.0 | 11/26/19 09:18 | |
| EPA 8260 | cis-1,2-Dichloroethene | 13.1 | ug/L | 4.0 | 11/26/19 09:18 | |
| EPA 300.0 | Sulfate | 88.5 | mg/L | 10.0 | 12/04/19 11:56 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 395 | mg/L | 47.0 | 12/03/19 12:21 | |
| SM 5310C | Total Organic Carbon | 4.3 | mg/L | 1.5 | 12/03/19 17:42 | |
| 40199775003 | MW-2 | | | | | |
| EPA 6010 | Manganese, Dissolved | 9220 | ug/L | 5.0 | 11/26/19 20:40 | |
| EPA 8260 | Trichloroethene | 240 | ug/L | 25.0 | 11/26/19 09:40 | |
| EPA 8260 | cis-1,2-Dichloroethene | 1230 | ug/L | 25.0 | 11/26/19 09:40 | |
| EPA 300.0 | Sulfate | 84.9 | mg/L | 20.0 | 12/04/19 12:49 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 809 | mg/L | 117 | 12/03/19 13:02 | |
| SM 5310C | Total Organic Carbon | 171 | mg/L | 50.0 | 12/04/19 09:39 | |
| 40199775004 | MW-4 | | | | | |
| EPA 6010 | Iron, Dissolved | 246 | ug/L | 100 | 11/26/19 20:43 | |
| EPA 6010 | Manganese, Dissolved | 1060 | ug/L | 5.0 | 11/26/19 20:43 | |
| EPA 8260 | 1,1,1-Trichloroethane | 2.4J | ug/L | 2.5 | 11/26/19 10:01 | |
| EPA 8260 | Tetrachloroethene | 2.5J | ug/L | 2.7 | 11/26/19 10:01 | |
| EPA 8260 | Trichloroethene | 132 | ug/L | 2.5 | 11/26/19 10:01 | |
| EPA 8260 | cis-1,2-Dichloroethene | 5.2 | ug/L | 2.5 | 11/26/19 10:01 | |
| EPA 300.0 | Sulfate | 41.0 | mg/L | 10.0 | 12/04/19 13:02 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 270 | mg/L | 23.5 | 12/03/19 12:24 | |
| SM 5310C | Total Organic Carbon | 4.7 | mg/L | 0.50 | 12/03/19 19:07 | |
| 40199775005 | MW-42 | | | | | |
| EPA 6010 | Iron, Dissolved | 9760 | ug/L | 100 | 11/26/19 20:45 | |
| EPA 6010 | Manganese, Dissolved | 1070 | ug/L | 5.0 | 11/26/19 20:45 | |
| EPA 8260 | Trichloroethene | 4770 | ug/L | 100 | 11/26/19 17:30 | |
| EPA 8260 | cis-1,2-Dichloroethene | 35.1J | ug/L | 100 | 11/26/19 17:30 | |
| EPA 300.0 | Sulfate | 48.1 | mg/L | 20.0 | 12/04/19 13:15 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 585 | mg/L | 47.0 | 12/03/19 12:24 | |
| SM 5310C | Total Organic Carbon | 124 | mg/L | 30.0 | 12/04/19 10:00 | |
| 40199775006 | OP-9 | | | | | |
| EPA 8015B Modified | Ethane | 18.8 | ug/L | 5.6 | 11/26/19 09:43 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|----------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40199775006 | OP-9 | | | | | |
| EPA 8015B Modified | Ethene | 3.6J | ug/L | 5.0 | 11/26/19 09:43 | |
| EPA 8015B Modified | Methane | 156 | ug/L | 2.8 | 11/26/19 09:43 | |
| EPA 6010 | Iron, Dissolved | 8080 | ug/L | 100 | 11/26/19 20:48 | |
| EPA 6010 | Manganese, Dissolved | 2610 | ug/L | 5.0 | 11/26/19 20:48 | |
| EPA 8260 | 1,1-Dichloroethane | 1.0 | ug/L | 1.0 | 11/26/19 13:14 | |
| EPA 8260 | 1,1-Dichloroethene | 1.4 | ug/L | 1.0 | 11/26/19 13:14 | |
| EPA 8260 | Trichloroethene | 4.2 | ug/L | 1.0 | 11/26/19 13:14 | |
| EPA 8260 | Vinyl chloride | 42.6 | ug/L | 1.0 | 11/26/19 13:14 | |
| EPA 8260 | cis-1,2-Dichloroethene | 39.9 | ug/L | 1.0 | 11/26/19 13:14 | |
| EPA 8260 | trans-1,2-Dichloroethene | 9.7 | ug/L | 3.6 | 11/26/19 13:14 | |
| EPA 300.0 | Sulfate | 742 | mg/L | 40.0 | 12/04/19 13:29 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 475 | mg/L | 47.0 | 12/03/19 12:25 | |
| 40199775007 | MW-38 | | | | | |
| EPA 8260 | 1,1,1-Trichloroethane | 0.31J | ug/L | 1.0 | 11/26/19 08:57 | |
| EPA 8260 | Trichloroethene | 0.57J | ug/L | 1.0 | 11/26/19 08:57 | |
| EPA 300.0 | Sulfate | 92.4 | mg/L | 10.0 | 12/04/19 13:42 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 207 | mg/L | 47.0 | 12/03/19 12:26 | |
| 40199775009 | DUP | | | | | |
| EPA 8015B Modified | Ethane | 7.3 | ug/L | 5.6 | 11/26/19 09:57 | |
| EPA 8015B Modified | Ethene | 7.7 | ug/L | 5.0 | 11/26/19 09:57 | |
| EPA 8015B Modified | Methane | 334 | ug/L | 5.6 | 11/26/19 12:27 | |
| EPA 6010 | Iron, Dissolved | 498 | ug/L | 100 | 11/26/19 20:57 | |
| EPA 6010 | Manganese, Dissolved | 166 | ug/L | 5.0 | 11/26/19 20:57 | |
| EPA 8260 | 1,1,1-Trichloroethane | 196 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | 1,1-Dichloroethane | 93.7 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | 1,1-Dichloroethene | 28.9 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | Chloroethane | 9.5J | ug/L | 25.0 | 11/26/19 10:44 | |
| EPA 8260 | Trichloroethene | 399 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | Vinyl chloride | 45.9 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | cis-1,2-Dichloroethene | 352 | ug/L | 5.0 | 11/26/19 10:44 | |
| EPA 8260 | trans-1,2-Dichloroethene | 5.7J | ug/L | 18.2 | 11/26/19 10:44 | |
| EPA 300.0 | Sulfate | 37.9 | mg/L | 20.0 | 12/04/19 13:55 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 406 | mg/L | 47.0 | 12/03/19 12:27 | |
| SM 5310C | Total Organic Carbon | 2.4 | mg/L | 0.50 | 12/03/19 19:48 | |
| 40199775010 | MW-40 | | | | | |
| EPA 8015B Modified | Methane | 14.8 | ug/L | 2.8 | 11/26/19 10:04 | |
| EPA 6010 | Manganese, Dissolved | 9.6 | ug/L | 5.0 | 11/26/19 21:00 | |
| EPA 8260 | 1,1,1-Trichloroethane | 10900 | ug/L | 100 | 11/26/19 11:05 | |
| EPA 8260 | 1,1-Dichloroethane | 336 | ug/L | 100 | 11/26/19 11:05 | |
| EPA 8260 | 1,1-Dichloroethene | 283 | ug/L | 100 | 11/26/19 11:05 | |
| EPA 8260 | Trichloroethene | 231 | ug/L | 100 | 11/26/19 11:05 | |
| EPA 8260 | cis-1,2-Dichloroethene | 739 | ug/L | 100 | 11/26/19 11:05 | |
| EPA 300.0 | Sulfate | 62.2 | mg/L | 20.0 | 12/04/19 14:08 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 443 | mg/L | 47.0 | 12/03/19 12:27 | |
| SM 5310C | Total Organic Carbon | 2.5 | mg/L | 1.0 | 12/03/19 20:09 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|--|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40199775011 | MW-16 | | | | | |
| EPA 8015B Modified | Methane | 22.6 | ug/L | 2.8 | 11/26/19 11:03 | |
| EPA 6010 | Iron, Dissolved | 1110 | ug/L | 100 | 11/26/19 21:02 | |
| EPA 6010 | Manganese, Dissolved | 75.4 | ug/L | 5.0 | 11/26/19 21:02 | |
| EPA 8260 | 1,1,1-Trichloroethane | 1080 | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | 1,1-Dichloroethane | 87.4 | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | 1,1-Dichloroethene | 13.8J | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | Trichloroethene | 33.8 | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | Vinyl chloride | 9.8J | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | cis-1,2-Dichloroethene | 809 | ug/L | 20.0 | 11/26/19 11:27 | |
| EPA 8260 | trans-1,2-Dichloroethene | 36.8J | ug/L | 72.7 | 11/26/19 11:27 | |
| EPA 300.0 | Sulfate | 62.4 | mg/L | 10.0 | 12/05/19 02:58 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 431 | mg/L | 117 | 12/03/19 12:28 | |
| SM 5310C | Total Organic Carbon | 2.1 | mg/L | 0.50 | 12/03/19 20:30 | |
| 40199775012 | OP-2 | | | | | |
| EPA 6010 | Manganese, Dissolved | 2.0J | ug/L | 5.0 | 11/26/19 21:05 | |
| EPA 8260 | 1,1,1-Trichloroethane | 167 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 8260 | 1,1-Dichloroethane | 25.5 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 8260 | 1,1-Dichloroethene | 6.9 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 8260 | Trichloroethene | 698 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 8260 | Vinyl chloride | 5.8 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 8260 | cis-1,2-Dichloroethene | 642 | ug/L | 5.0 | 11/26/19 11:48 | |
| EPA 300.0 | Sulfate | 75.8 | mg/L | 10.0 | 12/04/19 14:35 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 403 | mg/L | 47.0 | 12/03/19 12:31 | |
| SM 5310C | Total Organic Carbon | 2.3 | mg/L | 0.50 | 12/03/19 21:12 | |
| 40199775014 | MW-27 | | | | | |
| EPA 8260 | Naphthalene | 1.2J | ug/L | 5.0 | 11/26/19 15:43 | |
| EPA 8260 | Vinyl chloride | 0.30J | ug/L | 1.0 | 11/26/19 15:43 | |
| EPA 8260 | cis-1,2-Dichloroethene | 0.34J | ug/L | 1.0 | 11/26/19 15:43 | |
| 40199775015 | MW-13R | | | | | |
| EPA 8015B Modified | Ethane | 6.3 | ug/L | 5.6 | 11/26/19 11:17 | |
| EPA 8015B Modified | Methane | 248 | ug/L | 5.6 | 11/26/19 12:34 | |
| EPA 6010 | Iron, Dissolved | 5840 | ug/L | 100 | 11/26/19 21:07 | |
| EPA 6010 | Manganese, Dissolved | 1100 | ug/L | 5.0 | 11/26/19 21:07 | |
| EPA 8260 | 1,1-Dichloroethane | 1.8 | ug/L | 1.0 | 11/26/19 16:05 | |
| EPA 8260 | Vinyl chloride | 10.0 | ug/L | 1.0 | 11/26/19 16:05 | |
| EPA 8260 | cis-1,2-Dichloroethene | 2.8 | ug/L | 1.0 | 11/26/19 16:05 | |
| EPA 8260 | trans-1,2-Dichloroethene | 1.4J | ug/L | 3.6 | 11/26/19 16:05 | |
| EPA 300.0 | Sulfate | 102 | mg/L | 10.0 | 12/05/19 03:11 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 522 | mg/L | 47.0 | 12/03/19 12:32 | |
| SM 5310C | Total Organic Carbon | 5.5 | mg/L | 1.5 | 12/03/19 21:33 | |
| 40199775016 | MW-12 | | | | | |
| EPA 8260 | Vinyl chloride | 0.40J | ug/L | 1.0 | 11/26/19 16:26 | |
| 40199775017 | MW-41 | | | | | |
| EPA 6010 | Iron, Dissolved | 93.0J | ug/L | 100 | 11/26/19 21:09 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--|--------|-------|--------------|----------------|------------|
| 40199775017 | MW-41 | | | | | |
| EPA 6010 | Manganese, Dissolved | 805 | ug/L | 5.0 | 11/26/19 21:09 | |
| EPA 8260 | 1,1,1-Trichloroethane | 2.1 | ug/L | 1.0 | 11/26/19 16:48 | |
| EPA 8260 | 1,1-Dichloroethane | 1.7 | ug/L | 1.0 | 11/26/19 16:48 | |
| EPA 8260 | Tetrachloroethene | 1.1J | ug/L | 1.1 | 11/26/19 16:48 | |
| EPA 8260 | Trichloroethene | 30.2 | ug/L | 1.0 | 11/26/19 16:48 | |
| EPA 8260 | cis-1,2-Dichloroethene | 3.6 | ug/L | 1.0 | 11/26/19 16:48 | |
| EPA 300.0 | Sulfate | 43.1 | mg/L | 10.0 | 12/04/19 15:41 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 401 | mg/L | 47.0 | 12/03/19 12:33 | |
| SM 5310C | Total Organic Carbon | 57.7 | mg/L | 15.0 | 12/04/19 10:20 | |
| 40199775018 | OP-3 | | | | | |
| EPA 8015B Modified | Ethane | 6.6 | ug/L | 5.6 | 11/26/19 11:31 | |
| EPA 8015B Modified | Ethene | 7.1 | ug/L | 5.0 | 11/26/19 11:31 | |
| EPA 8015B Modified | Methane | 272 | ug/L | 5.6 | 11/26/19 12:40 | |
| EPA 6010 | Iron, Dissolved | 502 | ug/L | 100 | 11/26/19 21:12 | |
| EPA 6010 | Manganese, Dissolved | 188 | ug/L | 5.0 | 11/26/19 21:12 | |
| EPA 8260 | 1,1,1-Trichloroethane | 179 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | 1,1-Dichloroethane | 90.7 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | 1,1-Dichloroethene | 27.5 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | Chloroethane | 8.7J | ug/L | 25.0 | 11/26/19 17:09 | |
| EPA 8260 | Trichloroethene | 474 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | Vinyl chloride | 49.4 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | cis-1,2-Dichloroethene | 382 | ug/L | 5.0 | 11/26/19 17:09 | |
| EPA 8260 | trans-1,2-Dichloroethene | 11.8J | ug/L | 18.2 | 11/26/19 17:09 | |
| EPA 300.0 | Sulfate | 37.5 | mg/L | 2.0 | 12/04/19 15:54 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 396 | mg/L | 47.0 | 12/03/19 12:33 | |
| SM 5310C | Total Organic Carbon | 2.3 | mg/L | 0.50 | 12/03/19 22:15 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-1R **Lab ID: 40199775001** Collected: 11/20/19 10:14 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:08 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:08 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:08 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:31 | 7439-89-6 | |
| Manganese, Dissolved | 79.6 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:31 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:53 | 630-20-6 | |
| 1,1,1-Trichloroethane | 0.90J | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:53 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:53 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 12:53 | 79-00-5 | |
| 1,1-Dichloroethane | 1.4 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:53 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:53 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 12:53 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 12:53 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 12:53 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 12:53 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 12:53 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 12:53 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 12:53 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:53 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:53 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:53 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 12:53 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 12:53 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 12:53 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 12:53 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 12:53 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 12:53 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 12:53 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 12:53 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:53 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 12:53 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 12:53 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 12:53 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 12:53 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 12:53 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:53 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 12:53 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 12:53 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 12:53 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 12:53 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 12:53 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 12:53 | 75-71-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-1R **Lab ID: 40199775001** Collected: 11/20/19 10:14 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 12:53 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 12:53 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 12:53 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 12:53 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 12:53 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 12:53 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 12:53 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 12:53 | 100-42-5 | |
| Tetrachloroethene | 0.49J | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 12:53 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 12:53 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 12:53 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 12:53 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 12:53 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:53 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 12:53 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 12:53 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:53 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 12:53 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 12:53 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 12:53 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 12:53 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 12:53 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 12:53 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 12:53 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 11/26/19 12:53 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | | 1 | | 11/26/19 12:53 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 11/26/19 12:53 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 233 | mg/L | 40.0 | 8.9 | 20 | | 12/04/19 11:43 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 309 | mg/L | 23.5 | 7.0 | 1 | | 12/03/19 12:21 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 5.7 | mg/L | 3.0 | 0.89 | 6 | | 12/03/19 16:18 | 7440-44-0 | |

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:15 | 74-84-0 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:15 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:15 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | 601 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:38 | 7439-89-6 | |
| Manganese, Dissolved | 27.0 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:38 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 630-20-6 | |
| 1,1,1-Trichloroethane | 3.6J | ug/L | 4.0 | 0.98 | 4 | | 11/26/19 09:18 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <1.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 79-34-5 | |
| 1,1,2-Trichloroethane | <2.2 | ug/L | 20.0 | 2.2 | 4 | | 11/26/19 09:18 | 79-00-5 | |
| 1,1-Dichloroethane | <1.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 75-34-3 | |
| 1,1-Dichloroethene | <0.98 | ug/L | 4.0 | 0.98 | 4 | | 11/26/19 09:18 | 75-35-4 | |
| 1,1-Dichloropropene | <2.2 | ug/L | 7.2 | 2.2 | 4 | | 11/26/19 09:18 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <2.5 | ug/L | 20.0 | 2.5 | 4 | | 11/26/19 09:18 | 87-61-6 | |
| 1,2,3-Trichloropropane | <2.4 | ug/L | 20.0 | 2.4 | 4 | | 11/26/19 09:18 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <3.8 | ug/L | 20.0 | 3.8 | 4 | | 11/26/19 09:18 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <3.4 | ug/L | 11.2 | 3.4 | 4 | | 11/26/19 09:18 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <7.1 | ug/L | 23.5 | 7.1 | 4 | | 11/26/19 09:18 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <3.3 | ug/L | 11.1 | 3.3 | 4 | | 11/26/19 09:18 | 106-93-4 | |
| 1,2-Dichlorobenzene | <2.8 | ug/L | 9.4 | 2.8 | 4 | | 11/26/19 09:18 | 95-50-1 | |
| 1,2-Dichloroethane | <1.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 107-06-2 | |
| 1,2-Dichloropropane | <1.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <3.5 | ug/L | 11.6 | 3.5 | 4 | | 11/26/19 09:18 | 108-67-8 | |
| 1,3-Dichlorobenzene | <2.5 | ug/L | 8.4 | 2.5 | 4 | | 11/26/19 09:18 | 541-73-1 | |
| 1,3-Dichloropropane | <3.3 | ug/L | 11.0 | 3.3 | 4 | | 11/26/19 09:18 | 142-28-9 | |
| 1,4-Dichlorobenzene | <3.8 | ug/L | 12.6 | 3.8 | 4 | | 11/26/19 09:18 | 106-46-7 | |
| 2,2-Dichloropropane | <9.1 | ug/L | 30.2 | 9.1 | 4 | | 11/26/19 09:18 | 594-20-7 | |
| 2-Chlorotoluene | <3.7 | ug/L | 20.0 | 3.7 | 4 | | 11/26/19 09:18 | 95-49-8 | |
| 4-Chlorotoluene | <3.0 | ug/L | 10.1 | 3.0 | 4 | | 11/26/19 09:18 | 106-43-4 | |
| Benzene | <0.99 | ug/L | 4.0 | 0.99 | 4 | | 11/26/19 09:18 | 71-43-2 | |
| Bromobenzene | <0.96 | ug/L | 4.0 | 0.96 | 4 | | 11/26/19 09:18 | 108-86-1 | |
| Bromochloromethane | <1.4 | ug/L | 20.0 | 1.4 | 4 | | 11/26/19 09:18 | 74-97-5 | |
| Bromodichloromethane | <1.5 | ug/L | 4.8 | 1.5 | 4 | | 11/26/19 09:18 | 75-27-4 | |
| Bromoform | <15.9 | ug/L | 53.0 | 15.9 | 4 | | 11/26/19 09:18 | 75-25-2 | |
| Bromomethane | <3.9 | ug/L | 20.0 | 3.9 | 4 | | 11/26/19 09:18 | 74-83-9 | |
| Carbon tetrachloride | <0.66 | ug/L | 4.0 | 0.66 | 4 | | 11/26/19 09:18 | 56-23-5 | |
| Chlorobenzene | <2.8 | ug/L | 9.5 | 2.8 | 4 | | 11/26/19 09:18 | 108-90-7 | |
| Chloroethane | <5.4 | ug/L | 20.0 | 5.4 | 4 | | 11/26/19 09:18 | 75-00-3 | |
| Chloroform | <5.1 | ug/L | 20.0 | 5.1 | 4 | | 11/26/19 09:18 | 67-66-3 | |
| Chloromethane | <8.8 | ug/L | 29.2 | 8.8 | 4 | | 11/26/19 09:18 | 74-87-3 | |
| Dibromochloromethane | <10.4 | ug/L | 34.7 | 10.4 | 4 | | 11/26/19 09:18 | 124-48-1 | |
| Dibromomethane | <3.7 | ug/L | 12.5 | 3.7 | 4 | | 11/26/19 09:18 | 74-95-3 | |
| Dichlorodifluoromethane | <2.0 | ug/L | 20.0 | 2.0 | 4 | | 11/26/19 09:18 | 75-71-8 | |
| Diisopropyl ether | <7.6 | ug/L | 25.2 | 7.6 | 4 | | 11/26/19 09:18 | 108-20-3 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Ethylbenzene | <0.87 | ug/L | 4.0 | 0.87 | 4 | | 11/26/19 09:18 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <4.7 | ug/L | 20.0 | 4.7 | 4 | | 11/26/19 09:18 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <1.6 | ug/L | 20.0 | 1.6 | 4 | | 11/26/19 09:18 | 98-82-8 | |
| Methyl-tert-butyl ether | <5.0 | ug/L | 16.6 | 5.0 | 4 | | 11/26/19 09:18 | 1634-04-4 | |
| Methylene Chloride | <2.3 | ug/L | 20.0 | 2.3 | 4 | | 11/26/19 09:18 | 75-09-2 | |
| Naphthalene | <4.7 | ug/L | 20.0 | 4.7 | 4 | | 11/26/19 09:18 | 91-20-3 | |
| Styrene | <1.9 | ug/L | 6.2 | 1.9 | 4 | | 11/26/19 09:18 | 100-42-5 | |
| Tetrachloroethene | 11.5 | ug/L | 4.4 | 1.3 | 4 | | 11/26/19 09:18 | 127-18-4 | |
| Toluene | <0.69 | ug/L | 20.0 | 0.69 | 4 | | 11/26/19 09:18 | 108-88-3 | |
| Trichloroethene | 914 | ug/L | 4.0 | 1.0 | 4 | | 11/26/19 09:18 | 79-01-6 | |
| Trichlorofluoromethane | <0.86 | ug/L | 4.0 | 0.86 | 4 | | 11/26/19 09:18 | 75-69-4 | |
| Vinyl chloride | <0.70 | ug/L | 4.0 | 0.70 | 4 | | 11/26/19 09:18 | 75-01-4 | |
| cis-1,2-Dichloroethene | 13.1 | ug/L | 4.0 | 1.1 | 4 | | 11/26/19 09:18 | 156-59-2 | |
| cis-1,3-Dichloropropene | <14.5 | ug/L | 48.4 | 14.5 | 4 | | 11/26/19 09:18 | 10061-01-5 | |
| m&p-Xylene | <1.9 | ug/L | 8.0 | 1.9 | 4 | | 11/26/19 09:18 | 179601-23-1 | |
| n-Butylbenzene | <2.8 | ug/L | 9.4 | 2.8 | 4 | | 11/26/19 09:18 | 104-51-8 | |
| n-Propylbenzene | <3.2 | ug/L | 20.0 | 3.2 | 4 | | 11/26/19 09:18 | 103-65-1 | |
| o-Xylene | <1.0 | ug/L | 4.0 | 1.0 | 4 | | 11/26/19 09:18 | 95-47-6 | |
| p-Isopropyltoluene | <3.2 | ug/L | 10.7 | 3.2 | 4 | | 11/26/19 09:18 | 99-87-6 | |
| sec-Butylbenzene | <3.4 | ug/L | 20.0 | 3.4 | 4 | | 11/26/19 09:18 | 135-98-8 | |
| tert-Butylbenzene | <1.2 | ug/L | 4.1 | 1.2 | 4 | | 11/26/19 09:18 | 98-06-6 | |
| trans-1,2-Dichloroethene | <4.4 | ug/L | 14.5 | 4.4 | 4 | | 11/26/19 09:18 | 156-60-5 | |
| trans-1,3-Dichloropropene | <17.5 | ug/L | 58.3 | 17.5 | 4 | | 11/26/19 09:18 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 4 | | 11/26/19 09:18 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 4 | | 11/26/19 09:18 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 4 | | 11/26/19 09:18 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 88.5 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 11:56 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 395 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:21 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 4.3 | mg/L | 1.5 | 0.45 | 3 | | 12/03/19 17:42 | 7440-44-0 | |

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:22 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:22 | 74-85-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:22 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:40 | 7439-89-6 | |
| Manganese, Dissolved | 9220 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:40 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <6.7 | ug/L | 25.0 | 6.7 | 25 | | 11/26/19 09:40 | 630-20-6 | |
| 1,1,1-Trichloroethane | <6.1 | ug/L | 25.0 | 6.1 | 25 | | 11/26/19 09:40 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <6.9 | ug/L | 25.0 | 6.9 | 25 | | 11/26/19 09:40 | 79-34-5 | |
| 1,1,2-Trichloroethane | <13.8 | ug/L | 125 | 13.8 | 25 | | 11/26/19 09:40 | 79-00-5 | |
| 1,1-Dichloroethane | <6.8 | ug/L | 25.0 | 6.8 | 25 | | 11/26/19 09:40 | 75-34-3 | |
| 1,1-Dichloroethene | <6.1 | ug/L | 25.0 | 6.1 | 25 | | 11/26/19 09:40 | 75-35-4 | |
| 1,1-Dichloropropene | <13.5 | ug/L | 45.0 | 13.5 | 25 | | 11/26/19 09:40 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <15.6 | ug/L | 125 | 15.6 | 25 | | 11/26/19 09:40 | 87-61-6 | |
| 1,2,3-Trichloropropane | <14.8 | ug/L | 125 | 14.8 | 25 | | 11/26/19 09:40 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <23.8 | ug/L | 125 | 23.8 | 25 | | 11/26/19 09:40 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <21.0 | ug/L | 70.0 | 21.0 | 25 | | 11/26/19 09:40 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <44.1 | ug/L | 147 | 44.1 | 25 | | 11/26/19 09:40 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <20.7 | ug/L | 69.1 | 20.7 | 25 | | 11/26/19 09:40 | 106-93-4 | |
| 1,2-Dichlorobenzene | <17.6 | ug/L | 58.8 | 17.6 | 25 | | 11/26/19 09:40 | 95-50-1 | |
| 1,2-Dichloroethane | <7.0 | ug/L | 25.0 | 7.0 | 25 | | 11/26/19 09:40 | 107-06-2 | |
| 1,2-Dichloropropane | <7.1 | ug/L | 25.0 | 7.1 | 25 | | 11/26/19 09:40 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <21.8 | ug/L | 72.8 | 21.8 | 25 | | 11/26/19 09:40 | 108-67-8 | |
| 1,3-Dichlorobenzene | <15.7 | ug/L | 52.3 | 15.7 | 25 | | 11/26/19 09:40 | 541-73-1 | |
| 1,3-Dichloropropane | <20.6 | ug/L | 68.8 | 20.6 | 25 | | 11/26/19 09:40 | 142-28-9 | |
| 1,4-Dichlorobenzene | <23.6 | ug/L | 78.6 | 23.6 | 25 | | 11/26/19 09:40 | 106-46-7 | |
| 2,2-Dichloropropane | <56.6 | ug/L | 189 | 56.6 | 25 | | 11/26/19 09:40 | 594-20-7 | |
| 2-Chlorotoluene | <23.2 | ug/L | 125 | 23.2 | 25 | | 11/26/19 09:40 | 95-49-8 | |
| 4-Chlorotoluene | <18.9 | ug/L | 63.0 | 18.9 | 25 | | 11/26/19 09:40 | 106-43-4 | |
| Benzene | <6.2 | ug/L | 25.0 | 6.2 | 25 | | 11/26/19 09:40 | 71-43-2 | |
| Bromobenzene | <6.0 | ug/L | 25.0 | 6.0 | 25 | | 11/26/19 09:40 | 108-86-1 | |
| Bromochloromethane | <9.1 | ug/L | 125 | 9.1 | 25 | | 11/26/19 09:40 | 74-97-5 | |
| Bromodichloromethane | <9.1 | ug/L | 30.3 | 9.1 | 25 | | 11/26/19 09:40 | 75-27-4 | |
| Bromoform | <99.3 | ug/L | 331 | 99.3 | 25 | | 11/26/19 09:40 | 75-25-2 | |
| Bromomethane | <24.3 | ug/L | 125 | 24.3 | 25 | | 11/26/19 09:40 | 74-83-9 | |
| Carbon tetrachloride | <4.1 | ug/L | 25.0 | 4.1 | 25 | | 11/26/19 09:40 | 56-23-5 | |
| Chlorobenzene | <17.8 | ug/L | 59.2 | 17.8 | 25 | | 11/26/19 09:40 | 108-90-7 | |
| Chloroethane | <33.6 | ug/L | 125 | 33.6 | 25 | | 11/26/19 09:40 | 75-00-3 | |
| Chloroform | <31.8 | ug/L | 125 | 31.8 | 25 | | 11/26/19 09:40 | 67-66-3 | |
| Chloromethane | <54.7 | ug/L | 182 | 54.7 | 25 | | 11/26/19 09:40 | 74-87-3 | |
| Dibromochloromethane | <65.0 | ug/L | 217 | 65.0 | 25 | | 11/26/19 09:40 | 124-48-1 | |
| Dibromomethane | <23.4 | ug/L | 78.1 | 23.4 | 25 | | 11/26/19 09:40 | 74-95-3 | |
| Dichlorodifluoromethane | <12.5 | ug/L | 125 | 12.5 | 25 | | 11/26/19 09:40 | 75-71-8 | |
| Diisopropyl ether | <47.2 | ug/L | 157 | 47.2 | 25 | | 11/26/19 09:40 | 108-20-3 | |
| Ethylbenzene | <5.5 | ug/L | 25.0 | 5.5 | 25 | | 11/26/19 09:40 | 100-41-4 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|-----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Hexachloro-1,3-butadiene | <29.6 | ug/L | 125 | 29.6 | 25 | | 11/26/19 09:40 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <9.8 | ug/L | 125 | 9.8 | 25 | | 11/26/19 09:40 | 98-82-8 | |
| Methyl-tert-butyl ether | <31.1 | ug/L | 104 | 31.1 | 25 | | 11/26/19 09:40 | 1634-04-4 | |
| Methylene Chloride | <14.5 | ug/L | 125 | 14.5 | 25 | | 11/26/19 09:40 | 75-09-2 | |
| Naphthalene | <29.4 | ug/L | 125 | 29.4 | 25 | | 11/26/19 09:40 | 91-20-3 | |
| Styrene | <11.6 | ug/L | 38.8 | 11.6 | 25 | | 11/26/19 09:40 | 100-42-5 | |
| Tetrachloroethene | <8.2 | ug/L | 27.2 | 8.2 | 25 | | 11/26/19 09:40 | 127-18-4 | |
| Toluene | <4.3 | ug/L | 125 | 4.3 | 25 | | 11/26/19 09:40 | 108-88-3 | |
| Trichloroethene | 240 | ug/L | 25.0 | 6.4 | 25 | | 11/26/19 09:40 | 79-01-6 | |
| Trichlorofluoromethane | <5.4 | ug/L | 25.0 | 5.4 | 25 | | 11/26/19 09:40 | 75-69-4 | |
| Vinyl chloride | <4.4 | ug/L | 25.0 | 4.4 | 25 | | 11/26/19 09:40 | 75-01-4 | |
| cis-1,2-Dichloroethene | 1230 | ug/L | 25.0 | 6.8 | 25 | | 11/26/19 09:40 | 156-59-2 | |
| cis-1,3-Dichloropropene | <90.7 | ug/L | 302 | 90.7 | 25 | | 11/26/19 09:40 | 10061-01-5 | |
| m&p-Xylene | <11.6 | ug/L | 50.0 | 11.6 | 25 | | 11/26/19 09:40 | 179601-23-1 | |
| n-Butylbenzene | <17.7 | ug/L | 59.0 | 17.7 | 25 | | 11/26/19 09:40 | 104-51-8 | |
| n-Propylbenzene | <20.3 | ug/L | 125 | 20.3 | 25 | | 11/26/19 09:40 | 103-65-1 | |
| o-Xylene | <6.5 | ug/L | 25.0 | 6.5 | 25 | | 11/26/19 09:40 | 95-47-6 | |
| p-Isopropyltoluene | <20.0 | ug/L | 66.7 | 20.0 | 25 | | 11/26/19 09:40 | 99-87-6 | |
| sec-Butylbenzene | <21.2 | ug/L | 125 | 21.2 | 25 | | 11/26/19 09:40 | 135-98-8 | |
| tert-Butylbenzene | <7.6 | ug/L | 25.3 | 7.6 | 25 | | 11/26/19 09:40 | 98-06-6 | |
| trans-1,2-Dichloroethene | <27.3 | ug/L | 90.9 | 27.3 | 25 | | 11/26/19 09:40 | 156-60-5 | |
| trans-1,3-Dichloropropene | <109 | ug/L | 364 | 109 | 25 | | 11/26/19 09:40 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 25 | | 11/26/19 09:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 25 | | 11/26/19 09:40 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 25 | | 11/26/19 09:40 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 84.9 | mg/L | 20.0 | 4.4 | 10 | | 12/04/19 12:49 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 809 | mg/L | 117 | 35.2 | 5 | | 12/03/19 13:02 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 171 | mg/L | 50.0 | 14.9 | 100 | | 12/04/19 09:39 | 7440-44-0 | |

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:29 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:29 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:29 | 74-82-8 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------|-----------------------------|------|------|-----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | 246 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:43 | 7439-89-6 | |
| Manganese, Dissolved | 1060 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:43 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.67 | ug/L | 2.5 | 0.67 | 2.5 | | 11/26/19 10:01 | 630-20-6 | |
| 1,1,1-Trichloroethane | 2.4J | ug/L | 2.5 | 0.61 | 2.5 | | 11/26/19 10:01 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.69 | ug/L | 2.5 | 0.69 | 2.5 | | 11/26/19 10:01 | 79-34-5 | |
| 1,1,2-Trichloroethane | <1.4 | ug/L | 12.5 | 1.4 | 2.5 | | 11/26/19 10:01 | 79-00-5 | |
| 1,1-Dichloroethane | <0.68 | ug/L | 2.5 | 0.68 | 2.5 | | 11/26/19 10:01 | 75-34-3 | |
| 1,1-Dichloroethene | <0.61 | ug/L | 2.5 | 0.61 | 2.5 | | 11/26/19 10:01 | 75-35-4 | |
| 1,1-Dichloropropene | <1.4 | ug/L | 4.5 | 1.4 | 2.5 | | 11/26/19 10:01 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <1.6 | ug/L | 12.5 | 1.6 | 2.5 | | 11/26/19 10:01 | 87-61-6 | |
| 1,2,3-Trichloropropane | <1.5 | ug/L | 12.5 | 1.5 | 2.5 | | 11/26/19 10:01 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 11/26/19 10:01 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <2.1 | ug/L | 7.0 | 2.1 | 2.5 | | 11/26/19 10:01 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <4.4 | ug/L | 14.7 | 4.4 | 2.5 | | 11/26/19 10:01 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <2.1 | ug/L | 6.9 | 2.1 | 2.5 | | 11/26/19 10:01 | 106-93-4 | |
| 1,2-Dichlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 11/26/19 10:01 | 95-50-1 | |
| 1,2-Dichloroethane | <0.70 | ug/L | 2.5 | 0.70 | 2.5 | | 11/26/19 10:01 | 107-06-2 | |
| 1,2-Dichloropropane | <0.71 | ug/L | 2.5 | 0.71 | 2.5 | | 11/26/19 10:01 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <2.2 | ug/L | 7.3 | 2.2 | 2.5 | | 11/26/19 10:01 | 108-67-8 | |
| 1,3-Dichlorobenzene | <1.6 | ug/L | 5.2 | 1.6 | 2.5 | | 11/26/19 10:01 | 541-73-1 | |
| 1,3-Dichloropropane | <2.1 | ug/L | 6.9 | 2.1 | 2.5 | | 11/26/19 10:01 | 142-28-9 | |
| 1,4-Dichlorobenzene | <2.4 | ug/L | 7.9 | 2.4 | 2.5 | | 11/26/19 10:01 | 106-46-7 | |
| 2,2-Dichloropropane | <5.7 | ug/L | 18.9 | 5.7 | 2.5 | | 11/26/19 10:01 | 594-20-7 | |
| 2-Chlorotoluene | <2.3 | ug/L | 12.5 | 2.3 | 2.5 | | 11/26/19 10:01 | 95-49-8 | |
| 4-Chlorotoluene | <1.9 | ug/L | 6.3 | 1.9 | 2.5 | | 11/26/19 10:01 | 106-43-4 | |
| Benzene | <0.62 | ug/L | 2.5 | 0.62 | 2.5 | | 11/26/19 10:01 | 71-43-2 | |
| Bromobenzene | <0.60 | ug/L | 2.5 | 0.60 | 2.5 | | 11/26/19 10:01 | 108-86-1 | |
| Bromochloromethane | <0.91 | ug/L | 12.5 | 0.91 | 2.5 | | 11/26/19 10:01 | 74-97-5 | |
| Bromodichloromethane | <0.91 | ug/L | 3.0 | 0.91 | 2.5 | | 11/26/19 10:01 | 75-27-4 | |
| Bromoform | <9.9 | ug/L | 33.1 | 9.9 | 2.5 | | 11/26/19 10:01 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 12.5 | 2.4 | 2.5 | | 11/26/19 10:01 | 74-83-9 | |
| Carbon tetrachloride | <0.41 | ug/L | 2.5 | 0.41 | 2.5 | | 11/26/19 10:01 | 56-23-5 | |
| Chlorobenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 11/26/19 10:01 | 108-90-7 | |
| Chloroethane | <3.4 | ug/L | 12.5 | 3.4 | 2.5 | | 11/26/19 10:01 | 75-00-3 | |
| Chloroform | <3.2 | ug/L | 12.5 | 3.2 | 2.5 | | 11/26/19 10:01 | 67-66-3 | |
| Chloromethane | <5.5 | ug/L | 18.2 | 5.5 | 2.5 | | 11/26/19 10:01 | 74-87-3 | |
| Dibromochloromethane | <6.5 | ug/L | 21.7 | 6.5 | 2.5 | | 11/26/19 10:01 | 124-48-1 | |
| Dibromomethane | <2.3 | ug/L | 7.8 | 2.3 | 2.5 | | 11/26/19 10:01 | 74-95-3 | |
| Dichlorodifluoromethane | <1.2 | ug/L | 12.5 | 1.2 | 2.5 | | 11/26/19 10:01 | 75-71-8 | |
| Diisopropyl ether | <4.7 | ug/L | 15.7 | 4.7 | 2.5 | | 11/26/19 10:01 | 108-20-3 | |
| Ethylbenzene | <0.55 | ug/L | 2.5 | 0.55 | 2.5 | | 11/26/19 10:01 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <3.0 | ug/L | 12.5 | 3.0 | 2.5 | | 11/26/19 10:01 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.98 | ug/L | 12.5 | 0.98 | 2.5 | | 11/26/19 10:01 | 98-82-8 | |
| Methyl-tert-butyl ether | <3.1 | ug/L | 10.4 | 3.1 | 2.5 | | 11/26/19 10:01 | 1634-04-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|-----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Methylene Chloride | <1.5 | ug/L | 12.5 | 1.5 | 2.5 | | 11/26/19 10:01 | 75-09-2 | |
| Naphthalene | <2.9 | ug/L | 12.5 | 2.9 | 2.5 | | 11/26/19 10:01 | 91-20-3 | |
| Styrene | <1.2 | ug/L | 3.9 | 1.2 | 2.5 | | 11/26/19 10:01 | 100-42-5 | |
| Tetrachloroethene | 2.5J | ug/L | 2.7 | 0.82 | 2.5 | | 11/26/19 10:01 | 127-18-4 | |
| Toluene | <0.43 | ug/L | 12.5 | 0.43 | 2.5 | | 11/26/19 10:01 | 108-88-3 | |
| Trichloroethene | 132 | ug/L | 2.5 | 0.64 | 2.5 | | 11/26/19 10:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.54 | ug/L | 2.5 | 0.54 | 2.5 | | 11/26/19 10:01 | 75-69-4 | |
| Vinyl chloride | <0.44 | ug/L | 2.5 | 0.44 | 2.5 | | 11/26/19 10:01 | 75-01-4 | |
| cis-1,2-Dichloroethene | 5.2 | ug/L | 2.5 | 0.68 | 2.5 | | 11/26/19 10:01 | 156-59-2 | |
| cis-1,3-Dichloropropene | <9.1 | ug/L | 30.2 | 9.1 | 2.5 | | 11/26/19 10:01 | 10061-01-5 | |
| m&p-Xylene | <1.2 | ug/L | 5.0 | 1.2 | 2.5 | | 11/26/19 10:01 | 179601-23-1 | |
| n-Butylbenzene | <1.8 | ug/L | 5.9 | 1.8 | 2.5 | | 11/26/19 10:01 | 104-51-8 | |
| n-Propylbenzene | <2.0 | ug/L | 12.5 | 2.0 | 2.5 | | 11/26/19 10:01 | 103-65-1 | |
| o-Xylene | <0.65 | ug/L | 2.5 | 0.65 | 2.5 | | 11/26/19 10:01 | 95-47-6 | |
| p-Isopropyltoluene | <2.0 | ug/L | 6.7 | 2.0 | 2.5 | | 11/26/19 10:01 | 99-87-6 | |
| sec-Butylbenzene | <2.1 | ug/L | 12.5 | 2.1 | 2.5 | | 11/26/19 10:01 | 135-98-8 | |
| tert-Butylbenzene | <0.76 | ug/L | 2.5 | 0.76 | 2.5 | | 11/26/19 10:01 | 98-06-6 | |
| trans-1,2-Dichloroethene | <2.7 | ug/L | 9.1 | 2.7 | 2.5 | | 11/26/19 10:01 | 156-60-5 | |
| trans-1,3-Dichloropropene | <10.9 | ug/L | 36.4 | 10.9 | 2.5 | | 11/26/19 10:01 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 2.5 | | 11/26/19 10:01 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | | 2.5 | | 11/26/19 10:01 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 2.5 | | 11/26/19 10:01 | 2037-26-5 | |

| | | | | | | | | | |
|---|------|------|------|-----|---|--|----------------|------------|--|
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 41.0 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 13:02 | 14808-79-8 | |

| | | | | | | | | | |
|--|-----|------|------|-----|---|--|----------------|--|--|
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 270 | mg/L | 23.5 | 7.0 | 1 | | 12/03/19 12:24 | | |

| | | | | | | | | | |
|--|-----|------|------|------|---|--|----------------|-----------|--|
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 4.7 | mg/L | 0.50 | 0.15 | 1 | | 12/03/19 19:07 | 7440-44-0 | |

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:36 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:36 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:36 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | 9760 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:45 | 7439-89-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|-----------------|-----------------------------|------|------|-----|----------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Manganese, Dissolved | 1070 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:45 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <26.9 | ug/L | 100 | 26.9 | 100 | | 11/26/19 17:30 | 630-20-6 | |
| 1,1,1-Trichloroethane | <24.5 | ug/L | 100 | 24.5 | 100 | | 11/26/19 17:30 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <27.5 | ug/L | 100 | 27.5 | 100 | | 11/26/19 17:30 | 79-34-5 | |
| 1,1,2-Trichloroethane | <55.2 | ug/L | 500 | 55.2 | 100 | | 11/26/19 17:30 | 79-00-5 | |
| 1,1-Dichloroethane | <27.3 | ug/L | 100 | 27.3 | 100 | | 11/26/19 17:30 | 75-34-3 | |
| 1,1-Dichloroethene | <24.5 | ug/L | 100 | 24.5 | 100 | | 11/26/19 17:30 | 75-35-4 | |
| 1,1-Dichloropropene | <54.0 | ug/L | 180 | 54.0 | 100 | | 11/26/19 17:30 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <62.6 | ug/L | 500 | 62.6 | 100 | | 11/26/19 17:30 | 87-61-6 | |
| 1,2,3-Trichloropropane | <59.1 | ug/L | 500 | 59.1 | 100 | | 11/26/19 17:30 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <95.1 | ug/L | 500 | 95.1 | 100 | | 11/26/19 17:30 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <84.1 | ug/L | 280 | 84.1 | 100 | | 11/26/19 17:30 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <176 | ug/L | 588 | 176 | 100 | | 11/26/19 17:30 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <82.9 | ug/L | 276 | 82.9 | 100 | | 11/26/19 17:30 | 106-93-4 | |
| 1,2-Dichlorobenzene | <70.5 | ug/L | 235 | 70.5 | 100 | | 11/26/19 17:30 | 95-50-1 | |
| 1,2-Dichloroethane | <28.0 | ug/L | 100 | 28.0 | 100 | | 11/26/19 17:30 | 107-06-2 | |
| 1,2-Dichloropropane | <28.3 | ug/L | 100 | 28.3 | 100 | | 11/26/19 17:30 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <87.3 | ug/L | 291 | 87.3 | 100 | | 11/26/19 17:30 | 108-67-8 | |
| 1,3-Dichlorobenzene | <62.8 | ug/L | 209 | 62.8 | 100 | | 11/26/19 17:30 | 541-73-1 | |
| 1,3-Dichloropropane | <82.6 | ug/L | 275 | 82.6 | 100 | | 11/26/19 17:30 | 142-28-9 | |
| 1,4-Dichlorobenzene | <94.4 | ug/L | 315 | 94.4 | 100 | | 11/26/19 17:30 | 106-46-7 | |
| 2,2-Dichloropropane | <227 | ug/L | 755 | 227 | 100 | | 11/26/19 17:30 | 594-20-7 | |
| 2-Chlorotoluene | <92.6 | ug/L | 500 | 92.6 | 100 | | 11/26/19 17:30 | 95-49-8 | |
| 4-Chlorotoluene | <75.6 | ug/L | 252 | 75.6 | 100 | | 11/26/19 17:30 | 106-43-4 | |
| Benzene | <24.6 | ug/L | 100 | 24.6 | 100 | | 11/26/19 17:30 | 71-43-2 | |
| Bromobenzene | <24.1 | ug/L | 100 | 24.1 | 100 | | 11/26/19 17:30 | 108-86-1 | |
| Bromochloromethane | <36.2 | ug/L | 500 | 36.2 | 100 | | 11/26/19 17:30 | 74-97-5 | |
| Bromodichloromethane | <36.4 | ug/L | 121 | 36.4 | 100 | | 11/26/19 17:30 | 75-27-4 | |
| Bromoform | <397 | ug/L | 1320 | 397 | 100 | | 11/26/19 17:30 | 75-25-2 | |
| Bromomethane | <97.1 | ug/L | 500 | 97.1 | 100 | | 11/26/19 17:30 | 74-83-9 | |
| Carbon tetrachloride | <16.6 | ug/L | 100 | 16.6 | 100 | | 11/26/19 17:30 | 56-23-5 | |
| Chlorobenzene | <71.1 | ug/L | 237 | 71.1 | 100 | | 11/26/19 17:30 | 108-90-7 | |
| Chloroethane | <134 | ug/L | 500 | 134 | 100 | | 11/26/19 17:30 | 75-00-3 | |
| Chloroform | <127 | ug/L | 500 | 127 | 100 | | 11/26/19 17:30 | 67-66-3 | |
| Chloromethane | <219 | ug/L | 730 | 219 | 100 | | 11/26/19 17:30 | 74-87-3 | |
| Dibromochloromethane | <260 | ug/L | 867 | 260 | 100 | | 11/26/19 17:30 | 124-48-1 | |
| Dibromomethane | <93.7 | ug/L | 312 | 93.7 | 100 | | 11/26/19 17:30 | 74-95-3 | |
| Dichlorodifluoromethane | <50.0 | ug/L | 500 | 50.0 | 100 | | 11/26/19 17:30 | 75-71-8 | |
| Diisopropyl ether | <189 | ug/L | 629 | 189 | 100 | | 11/26/19 17:30 | 108-20-3 | |
| Ethylbenzene | <21.8 | ug/L | 100 | 21.8 | 100 | | 11/26/19 17:30 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <118 | ug/L | 500 | 118 | 100 | | 11/26/19 17:30 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <39.3 | ug/L | 500 | 39.3 | 100 | | 11/26/19 17:30 | 98-82-8 | |
| Methyl-tert-butyl ether | <125 | ug/L | 415 | 125 | 100 | | 11/26/19 17:30 | 1634-04-4 | |
| Methylene Chloride | <58.1 | ug/L | 500 | 58.1 | 100 | | 11/26/19 17:30 | 75-09-2 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|-----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Naphthalene | <118 | ug/L | 500 | 118 | 100 | | 11/26/19 17:30 | 91-20-3 | |
| Styrene | <46.5 | ug/L | 155 | 46.5 | 100 | | 11/26/19 17:30 | 100-42-5 | |
| Tetrachloroethene | <32.6 | ug/L | 109 | 32.6 | 100 | | 11/26/19 17:30 | 127-18-4 | |
| Toluene | <17.2 | ug/L | 500 | 17.2 | 100 | | 11/26/19 17:30 | 108-88-3 | |
| Trichloroethene | 4770 | ug/L | 100 | 25.5 | 100 | | 11/26/19 17:30 | 79-01-6 | |
| Trichlorofluoromethane | <21.5 | ug/L | 100 | 21.5 | 100 | | 11/26/19 17:30 | 75-69-4 | |
| Vinyl chloride | <17.5 | ug/L | 100 | 17.5 | 100 | | 11/26/19 17:30 | 75-01-4 | |
| cis-1,2-Dichloroethene | 35.1J | ug/L | 100 | 27.1 | 100 | | 11/26/19 17:30 | 156-59-2 | |
| cis-1,3-Dichloropropene | <363 | ug/L | 1210 | 363 | 100 | | 11/26/19 17:30 | 10061-01-5 | |
| m&p-Xylene | <46.5 | ug/L | 200 | 46.5 | 100 | | 11/26/19 17:30 | 179601-23-1 | |
| n-Butylbenzene | <70.8 | ug/L | 236 | 70.8 | 100 | | 11/26/19 17:30 | 104-51-8 | |
| n-Propylbenzene | <81.1 | ug/L | 500 | 81.1 | 100 | | 11/26/19 17:30 | 103-65-1 | |
| o-Xylene | <26.2 | ug/L | 100 | 26.2 | 100 | | 11/26/19 17:30 | 95-47-6 | |
| p-Isopropyltoluene | <80.0 | ug/L | 267 | 80.0 | 100 | | 11/26/19 17:30 | 99-87-6 | |
| sec-Butylbenzene | <84.9 | ug/L | 500 | 84.9 | 100 | | 11/26/19 17:30 | 135-98-8 | |
| tert-Butylbenzene | <30.4 | ug/L | 101 | 30.4 | 100 | | 11/26/19 17:30 | 98-06-6 | |
| trans-1,2-Dichloroethene | <109 | ug/L | 364 | 109 | 100 | | 11/26/19 17:30 | 156-60-5 | |
| trans-1,3-Dichloropropene | <437 | ug/L | 1460 | 437 | 100 | | 11/26/19 17:30 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | | 100 | | 11/26/19 17:30 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 100 | | 11/26/19 17:30 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 100 | | 11/26/19 17:30 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 48.1 | mg/L | 20.0 | 4.4 | 10 | | 12/04/19 13:15 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 585 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:24 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 124 | mg/L | 30.0 | 8.9 | 60 | | 12/04/19 10:00 | 7440-44-0 | |

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | 18.8 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:43 | 74-84-0 | |
| Ethene | 3.6J | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:43 | 74-85-1 | |
| Methane | 156 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:43 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | 8080 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:48 | 7439-89-6 | |
| Manganese, Dissolved | 2610 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:48 | 7439-96-5 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:14 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:14 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:14 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 13:14 | 79-00-5 | |
| 1,1-Dichloroethane | 1.0 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:14 | 75-34-3 | |
| 1,1-Dichloroethene | 1.4 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:14 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 13:14 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 13:14 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 13:14 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 13:14 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 13:14 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 13:14 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:14 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:14 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:14 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:14 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 13:14 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 13:14 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:14 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:14 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 13:14 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 13:14 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 13:14 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 13:14 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:14 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 13:14 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 13:14 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 13:14 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 13:14 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:14 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:14 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:14 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:14 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 13:14 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 13:14 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:14 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 13:14 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 13:14 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 13:14 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:14 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 13:14 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 13:14 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 13:14 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:14 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 13:14 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 13:14 | 127-18-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 13:14 | 108-88-3 | |
| Trichloroethene | 4.2 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:14 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 13:14 | 75-69-4 | |
| Vinyl chloride | 42.6 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:14 | 75-01-4 | |
| cis-1,2-Dichloroethene | 39.9 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:14 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 13:14 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 13:14 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:14 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 13:14 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:14 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 13:14 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 13:14 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 13:14 | 98-06-6 | |
| trans-1,2-Dichloroethene | 9.7 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 13:14 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 13:14 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 11/26/19 13:14 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 1 | | 11/26/19 13:14 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/26/19 13:14 | 2037-26-5 | |

| | | | | | | | | | |
|--|-----|------|------|------|----|--|----------------|------------|--|
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 742 | mg/L | 40.0 | 8.9 | 20 | | 12/04/19 13:29 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 475 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:25 | | |

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:50 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:50 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 09:50 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:55 | 7439-89-6 | |
| Manganese, Dissolved | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:55 | 7439-96-5 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:57 | 630-20-6 | |
| 1,1,1-Trichloroethane | 0.31J | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:57 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:57 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 08:57 | 79-00-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:57 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:57 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 08:57 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 08:57 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 08:57 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 08:57 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 08:57 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 08:57 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:57 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:57 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:57 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:57 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 08:57 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 08:57 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:57 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:57 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 08:57 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 08:57 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 08:57 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 08:57 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:57 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 08:57 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 08:57 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 08:57 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 08:57 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:57 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:57 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:57 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:57 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 08:57 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 08:57 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:57 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 08:57 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 08:57 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 08:57 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:57 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 08:57 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 08:57 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 08:57 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:57 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 08:57 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 08:57 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 08:57 | 108-88-3 | |
| Trichloroethene | 0.57J | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:57 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 08:57 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:57 | 75-01-4 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:57 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 08:57 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 08:57 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:57 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 08:57 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:57 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 08:57 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 08:57 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 08:57 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 08:57 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 08:57 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 11/26/19 08:57 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 1 | | 11/26/19 08:57 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/26/19 08:57 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 92.4 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 13:42 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 207 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:26 | | |

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:35 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:35 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:35 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 13:35 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:35 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:35 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 13:35 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 13:35 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 13:35 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 13:35 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 13:35 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 13:35 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:35 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:35 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:35 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:35 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 13:35 | 108-67-8 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 13:35 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:35 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:35 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 13:35 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 13:35 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 13:35 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 13:35 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:35 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 13:35 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 13:35 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 13:35 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 13:35 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:35 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:35 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:35 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:35 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 13:35 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 13:35 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:35 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 13:35 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 13:35 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 13:35 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:35 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 13:35 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 13:35 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 13:35 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:35 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 13:35 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 13:35 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 13:35 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:35 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 13:35 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:35 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:35 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 13:35 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 13:35 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:35 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 13:35 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:35 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 13:35 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 13:35 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 13:35 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 13:35 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 13:35 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 11/26/19 13:35 | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|-----|----|----------|----------------|-----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| <i>Surrogates</i> | | | | | | | | | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 11/26/19 13:35 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 11/26/19 13:35 | 2037-26-5 | |

Sample: DUP **Lab ID: 40199775009** Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | 7.3 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 09:57 | 74-84-0 | |
| Ethene | 7.7 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 09:57 | 74-85-1 | |
| Methane | 334 | ug/L | 5.6 | 1.3 | 2 | | 11/26/19 12:27 | 74-82-8 | |

| | | | | | | | | | |
|--|-----|------|-----|------|---|--|----------------|-----------|--|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | 498 | ug/L | 100 | 29.6 | 1 | | 11/26/19 20:57 | 7439-89-6 | |
| Manganese, Dissolved | 166 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 20:57 | 7439-96-5 | |

| | | | | | | | | | |
|---|-------|------|------|------|---|--|----------------|----------|--|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 10:44 | 630-20-6 | |
| 1,1,1-Trichloroethane | 196 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 10:44 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 10:44 | 79-34-5 | |
| 1,1,2-Trichloroethane | <2.8 | ug/L | 25.0 | 2.8 | 5 | | 11/26/19 10:44 | 79-00-5 | |
| 1,1-Dichloroethane | 93.7 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 10:44 | 75-34-3 | |
| 1,1-Dichloroethene | 28.9 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 10:44 | 75-35-4 | |
| 1,1-Dichloropropene | <2.7 | ug/L | 9.0 | 2.7 | 5 | | 11/26/19 10:44 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <3.1 | ug/L | 25.0 | 3.1 | 5 | | 11/26/19 10:44 | 87-61-6 | |
| 1,2,3-Trichloropropane | <3.0 | ug/L | 25.0 | 3.0 | 5 | | 11/26/19 10:44 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <4.8 | ug/L | 25.0 | 4.8 | 5 | | 11/26/19 10:44 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <4.2 | ug/L | 14.0 | 4.2 | 5 | | 11/26/19 10:44 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <8.8 | ug/L | 29.4 | 8.8 | 5 | | 11/26/19 10:44 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 10:44 | 106-93-4 | |
| 1,2-Dichlorobenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 10:44 | 95-50-1 | |
| 1,2-Dichloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 10:44 | 107-06-2 | |
| 1,2-Dichloropropane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 10:44 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <4.4 | ug/L | 14.6 | 4.4 | 5 | | 11/26/19 10:44 | 108-67-8 | |
| 1,3-Dichlorobenzene | <3.1 | ug/L | 10.5 | 3.1 | 5 | | 11/26/19 10:44 | 541-73-1 | |
| 1,3-Dichloropropane | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 10:44 | 142-28-9 | |
| 1,4-Dichlorobenzene | <4.7 | ug/L | 15.7 | 4.7 | 5 | | 11/26/19 10:44 | 106-46-7 | |
| 2,2-Dichloropropane | <11.3 | ug/L | 37.8 | 11.3 | 5 | | 11/26/19 10:44 | 594-20-7 | |
| 2-Chlorotoluene | <4.6 | ug/L | 25.0 | 4.6 | 5 | | 11/26/19 10:44 | 95-49-8 | |
| 4-Chlorotoluene | <3.8 | ug/L | 12.6 | 3.8 | 5 | | 11/26/19 10:44 | 106-43-4 | |
| Benzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 10:44 | 71-43-2 | |
| Bromobenzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 10:44 | 108-86-1 | |
| Bromochloromethane | <1.8 | ug/L | 25.0 | 1.8 | 5 | | 11/26/19 10:44 | 74-97-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: DUP **Lab ID: 40199775009** Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|----------------------------|---------|------------------------------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| Bromodichloromethane | <1.8 | ug/L | 6.1 | 1.8 | 5 | | 11/26/19 10:44 | 75-27-4 | |
| Bromoform | <19.9 | ug/L | 66.2 | 19.9 | 5 | | 11/26/19 10:44 | 75-25-2 | |
| Bromomethane | <4.9 | ug/L | 25.0 | 4.9 | 5 | | 11/26/19 10:44 | 74-83-9 | |
| Carbon tetrachloride | <0.83 | ug/L | 5.0 | 0.83 | 5 | | 11/26/19 10:44 | 56-23-5 | |
| Chlorobenzene | <3.6 | ug/L | 11.8 | 3.6 | 5 | | 11/26/19 10:44 | 108-90-7 | |
| Chloroethane | 9.5J | ug/L | 25.0 | 6.7 | 5 | | 11/26/19 10:44 | 75-00-3 | |
| Chloroform | <6.4 | ug/L | 25.0 | 6.4 | 5 | | 11/26/19 10:44 | 67-66-3 | |
| Chloromethane | <10.9 | ug/L | 36.5 | 10.9 | 5 | | 11/26/19 10:44 | 74-87-3 | |
| Dibromochloromethane | <13.0 | ug/L | 43.4 | 13.0 | 5 | | 11/26/19 10:44 | 124-48-1 | |
| Dibromomethane | <4.7 | ug/L | 15.6 | 4.7 | 5 | | 11/26/19 10:44 | 74-95-3 | |
| Dichlorodifluoromethane | <2.5 | ug/L | 25.0 | 2.5 | 5 | | 11/26/19 10:44 | 75-71-8 | |
| Diisopropyl ether | <9.4 | ug/L | 31.5 | 9.4 | 5 | | 11/26/19 10:44 | 108-20-3 | |
| Ethylbenzene | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 10:44 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 10:44 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <2.0 | ug/L | 25.0 | 2.0 | 5 | | 11/26/19 10:44 | 98-82-8 | |
| Methyl-tert-butyl ether | <6.2 | ug/L | 20.8 | 6.2 | 5 | | 11/26/19 10:44 | 1634-04-4 | |
| Methylene Chloride | <2.9 | ug/L | 25.0 | 2.9 | 5 | | 11/26/19 10:44 | 75-09-2 | |
| Naphthalene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 10:44 | 91-20-3 | |
| Styrene | <2.3 | ug/L | 7.8 | 2.3 | 5 | | 11/26/19 10:44 | 100-42-5 | |
| Tetrachloroethene | <1.6 | ug/L | 5.4 | 1.6 | 5 | | 11/26/19 10:44 | 127-18-4 | |
| Toluene | <0.86 | ug/L | 25.0 | 0.86 | 5 | | 11/26/19 10:44 | 108-88-3 | |
| Trichloroethene | 399 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 10:44 | 79-01-6 | |
| Trichlorofluoromethane | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 10:44 | 75-69-4 | |
| Vinyl chloride | 45.9 | ug/L | 5.0 | 0.87 | 5 | | 11/26/19 10:44 | 75-01-4 | |
| cis-1,2-Dichloroethene | 352 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 10:44 | 156-59-2 | |
| cis-1,3-Dichloropropene | <18.1 | ug/L | 60.5 | 18.1 | 5 | | 11/26/19 10:44 | 10061-01-5 | |
| m&p-Xylene | <2.3 | ug/L | 10.0 | 2.3 | 5 | | 11/26/19 10:44 | 179601-23-1 | |
| n-Butylbenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 10:44 | 104-51-8 | |
| n-Propylbenzene | <4.1 | ug/L | 25.0 | 4.1 | 5 | | 11/26/19 10:44 | 103-65-1 | |
| o-Xylene | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 10:44 | 95-47-6 | |
| p-Isopropyltoluene | <4.0 | ug/L | 13.3 | 4.0 | 5 | | 11/26/19 10:44 | 99-87-6 | |
| sec-Butylbenzene | <4.2 | ug/L | 25.0 | 4.2 | 5 | | 11/26/19 10:44 | 135-98-8 | |
| tert-Butylbenzene | <1.5 | ug/L | 5.1 | 1.5 | 5 | | 11/26/19 10:44 | 98-06-6 | |
| trans-1,2-Dichloroethene | 5.7J | ug/L | 18.2 | 5.5 | 5 | | 11/26/19 10:44 | 156-60-5 | |
| trans-1,3-Dichloropropene | <21.9 | ug/L | 72.8 | 21.9 | 5 | | 11/26/19 10:44 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 5 | | 11/26/19 10:44 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | | 5 | | 11/26/19 10:44 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 5 | | 11/26/19 10:44 | 2037-26-5 | |
| 300.0 IC Anions | | Analytical Method: EPA 300.0 | | | | | | | |
| Sulfate | 37.9 | mg/L | 20.0 | 4.4 | 10 | | 12/04/19 13:55 | 14808-79-8 | |
| 310.2 Alkalinity | | Analytical Method: EPA 310.2 | | | | | | | |
| Alkalinity, Total as CaCO3 | 406 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:27 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Sample: DUP | | | | | | | | | |
|--|---------|---------------------|---------------------------|--------------------------|---------------|----------|----------------|-----------|------|
| | | Lab ID: 40199775009 | Collected: 11/20/19 00:00 | Received: 11/22/19 08:55 | Matrix: Water | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.4 | mg/L | 0.50 | 0.15 | 1 | | 12/03/19 19:48 | 7440-44-0 | |

| Sample: MW-40 | | | | | | | | | |
|--|---------|---------------------|---------------------------|--------------------------|---------------|----------|----------------|-----------|------|
| | | Lab ID: 40199775010 | Collected: 11/20/19 13:24 | Received: 11/22/19 08:55 | Matrix: Water | | | | |
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 10:04 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 10:04 | 74-85-1 | |
| Methane | 14.8 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 10:04 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:00 | 7439-89-6 | |
| Manganese, Dissolved | 9.6 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:00 | 7439-96-5 | |

| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
|---|---------|-------|------|------|-----|----------|----------------|----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 1,1,1,2-Tetrachloroethane | <26.9 | ug/L | 100 | 26.9 | 100 | | 11/26/19 11:05 | 630-20-6 | |
| 1,1,1-Trichloroethane | 10900 | ug/L | 100 | 24.5 | 100 | | 11/26/19 11:05 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <27.5 | ug/L | 100 | 27.5 | 100 | | 11/26/19 11:05 | 79-34-5 | |
| 1,1,2-Trichloroethane | <55.2 | ug/L | 500 | 55.2 | 100 | | 11/26/19 11:05 | 79-00-5 | |
| 1,1-Dichloroethane | 336 | ug/L | 100 | 27.3 | 100 | | 11/26/19 11:05 | 75-34-3 | |
| 1,1-Dichloroethene | 283 | ug/L | 100 | 24.5 | 100 | | 11/26/19 11:05 | 75-35-4 | |
| 1,1-Dichloropropene | <54.0 | ug/L | 180 | 54.0 | 100 | | 11/26/19 11:05 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <62.6 | ug/L | 500 | 62.6 | 100 | | 11/26/19 11:05 | 87-61-6 | |
| 1,2,3-Trichloropropane | <59.1 | ug/L | 500 | 59.1 | 100 | | 11/26/19 11:05 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <95.1 | ug/L | 500 | 95.1 | 100 | | 11/26/19 11:05 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <84.1 | ug/L | 280 | 84.1 | 100 | | 11/26/19 11:05 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <176 | ug/L | 588 | 176 | 100 | | 11/26/19 11:05 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <82.9 | ug/L | 276 | 82.9 | 100 | | 11/26/19 11:05 | 106-93-4 | |
| 1,2-Dichlorobenzene | <70.5 | ug/L | 235 | 70.5 | 100 | | 11/26/19 11:05 | 95-50-1 | |
| 1,2-Dichloroethane | <28.0 | ug/L | 100 | 28.0 | 100 | | 11/26/19 11:05 | 107-06-2 | |
| 1,2-Dichloropropane | <28.3 | ug/L | 100 | 28.3 | 100 | | 11/26/19 11:05 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <87.3 | ug/L | 291 | 87.3 | 100 | | 11/26/19 11:05 | 108-67-8 | |
| 1,3-Dichlorobenzene | <62.8 | ug/L | 209 | 62.8 | 100 | | 11/26/19 11:05 | 541-73-1 | |
| 1,3-Dichloropropane | <82.6 | ug/L | 275 | 82.6 | 100 | | 11/26/19 11:05 | 142-28-9 | |
| 1,4-Dichlorobenzene | <94.4 | ug/L | 315 | 94.4 | 100 | | 11/26/19 11:05 | 106-46-7 | |
| 2,2-Dichloropropane | <227 | ug/L | 755 | 227 | 100 | | 11/26/19 11:05 | 594-20-7 | |
| 2-Chlorotoluene | <92.6 | ug/L | 500 | 92.6 | 100 | | 11/26/19 11:05 | 95-49-8 | |
| 4-Chlorotoluene | <75.6 | ug/L | 252 | 75.6 | 100 | | 11/26/19 11:05 | 106-43-4 | |
| Benzene | <24.6 | ug/L | 100 | 24.6 | 100 | | 11/26/19 11:05 | 71-43-2 | |
| Bromobenzene | <24.1 | ug/L | 100 | 24.1 | 100 | | 11/26/19 11:05 | 108-86-1 | |
| Bromochloromethane | <36.2 | ug/L | 500 | 36.2 | 100 | | 11/26/19 11:05 | 74-97-5 | |
| Bromodichloromethane | <36.4 | ug/L | 121 | 36.4 | 100 | | 11/26/19 11:05 | 75-27-4 | |
| Bromoform | <397 | ug/L | 1320 | 397 | 100 | | 11/26/19 11:05 | 75-25-2 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-40 **Lab ID: 40199775010** Collected: 11/20/19 13:24 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|-----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Bromomethane | <97.1 | ug/L | 500 | 97.1 | 100 | | 11/26/19 11:05 | 74-83-9 | |
| Carbon tetrachloride | <16.6 | ug/L | 100 | 16.6 | 100 | | 11/26/19 11:05 | 56-23-5 | |
| Chlorobenzene | <71.1 | ug/L | 237 | 71.1 | 100 | | 11/26/19 11:05 | 108-90-7 | |
| Chloroethane | <134 | ug/L | 500 | 134 | 100 | | 11/26/19 11:05 | 75-00-3 | |
| Chloroform | <127 | ug/L | 500 | 127 | 100 | | 11/26/19 11:05 | 67-66-3 | |
| Chloromethane | <219 | ug/L | 730 | 219 | 100 | | 11/26/19 11:05 | 74-87-3 | |
| Dibromochloromethane | <260 | ug/L | 867 | 260 | 100 | | 11/26/19 11:05 | 124-48-1 | |
| Dibromomethane | <93.7 | ug/L | 312 | 93.7 | 100 | | 11/26/19 11:05 | 74-95-3 | |
| Dichlorodifluoromethane | <50.0 | ug/L | 500 | 50.0 | 100 | | 11/26/19 11:05 | 75-71-8 | |
| Diisopropyl ether | <189 | ug/L | 629 | 189 | 100 | | 11/26/19 11:05 | 108-20-3 | |
| Ethylbenzene | <21.8 | ug/L | 100 | 21.8 | 100 | | 11/26/19 11:05 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <118 | ug/L | 500 | 118 | 100 | | 11/26/19 11:05 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <39.3 | ug/L | 500 | 39.3 | 100 | | 11/26/19 11:05 | 98-82-8 | |
| Methyl-tert-butyl ether | <125 | ug/L | 415 | 125 | 100 | | 11/26/19 11:05 | 1634-04-4 | |
| Methylene Chloride | <58.1 | ug/L | 500 | 58.1 | 100 | | 11/26/19 11:05 | 75-09-2 | |
| Naphthalene | <118 | ug/L | 500 | 118 | 100 | | 11/26/19 11:05 | 91-20-3 | |
| Styrene | <46.5 | ug/L | 155 | 46.5 | 100 | | 11/26/19 11:05 | 100-42-5 | |
| Tetrachloroethene | <32.6 | ug/L | 109 | 32.6 | 100 | | 11/26/19 11:05 | 127-18-4 | |
| Toluene | <17.2 | ug/L | 500 | 17.2 | 100 | | 11/26/19 11:05 | 108-88-3 | |
| Trichloroethene | 231 | ug/L | 100 | 25.5 | 100 | | 11/26/19 11:05 | 79-01-6 | |
| Trichlorofluoromethane | <21.5 | ug/L | 100 | 21.5 | 100 | | 11/26/19 11:05 | 75-69-4 | |
| Vinyl chloride | <17.5 | ug/L | 100 | 17.5 | 100 | | 11/26/19 11:05 | 75-01-4 | |
| cis-1,2-Dichloroethene | 739 | ug/L | 100 | 27.1 | 100 | | 11/26/19 11:05 | 156-59-2 | |
| cis-1,3-Dichloropropene | <363 | ug/L | 1210 | 363 | 100 | | 11/26/19 11:05 | 10061-01-5 | |
| m&p-Xylene | <46.5 | ug/L | 200 | 46.5 | 100 | | 11/26/19 11:05 | 179601-23-1 | |
| n-Butylbenzene | <70.8 | ug/L | 236 | 70.8 | 100 | | 11/26/19 11:05 | 104-51-8 | |
| n-Propylbenzene | <81.1 | ug/L | 500 | 81.1 | 100 | | 11/26/19 11:05 | 103-65-1 | |
| o-Xylene | <26.2 | ug/L | 100 | 26.2 | 100 | | 11/26/19 11:05 | 95-47-6 | |
| p-Isopropyltoluene | <80.0 | ug/L | 267 | 80.0 | 100 | | 11/26/19 11:05 | 99-87-6 | |
| sec-Butylbenzene | <84.9 | ug/L | 500 | 84.9 | 100 | | 11/26/19 11:05 | 135-98-8 | |
| tert-Butylbenzene | <30.4 | ug/L | 101 | 30.4 | 100 | | 11/26/19 11:05 | 98-06-6 | |
| trans-1,2-Dichloroethene | <109 | ug/L | 364 | 109 | 100 | | 11/26/19 11:05 | 156-60-5 | |
| trans-1,3-Dichloropropene | <437 | ug/L | 1460 | 437 | 100 | | 11/26/19 11:05 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 100 | | 11/26/19 11:05 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 100 | | 11/26/19 11:05 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 100 | | 11/26/19 11:05 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 62.2 | mg/L | 20.0 | 4.4 | 10 | | 12/04/19 14:08 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 443 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:27 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.5 | mg/L | 1.0 | 0.30 | 2 | | 12/03/19 20:09 | 7440-44-0 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-16 **Lab ID: 40199775011** Collected: 11/20/19 12:37 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:03 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:03 | 74-85-1 | |
| Methane | 22.6 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:03 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | 1110 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:02 | 7439-89-6 | |
| Manganese, Dissolved | 75.4 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:02 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <5.4 | ug/L | 20.0 | 5.4 | 20 | | 11/26/19 11:27 | 630-20-6 | |
| 1,1,1-Trichloroethane | 1080 | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 11:27 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <5.5 | ug/L | 20.0 | 5.5 | 20 | | 11/26/19 11:27 | 79-34-5 | |
| 1,1,2-Trichloroethane | <11.0 | ug/L | 100 | 11.0 | 20 | | 11/26/19 11:27 | 79-00-5 | |
| 1,1-Dichloroethane | 87.4 | ug/L | 20.0 | 5.5 | 20 | | 11/26/19 11:27 | 75-34-3 | |
| 1,1-Dichloroethene | 13.8J | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 11:27 | 75-35-4 | |
| 1,1-Dichloropropene | <10.8 | ug/L | 36.0 | 10.8 | 20 | | 11/26/19 11:27 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <12.5 | ug/L | 100 | 12.5 | 20 | | 11/26/19 11:27 | 87-61-6 | |
| 1,2,3-Trichloropropane | <11.8 | ug/L | 100 | 11.8 | 20 | | 11/26/19 11:27 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <19.0 | ug/L | 100 | 19.0 | 20 | | 11/26/19 11:27 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <16.8 | ug/L | 56.0 | 16.8 | 20 | | 11/26/19 11:27 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <35.3 | ug/L | 118 | 35.3 | 20 | | 11/26/19 11:27 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <16.6 | ug/L | 55.3 | 16.6 | 20 | | 11/26/19 11:27 | 106-93-4 | |
| 1,2-Dichlorobenzene | <14.1 | ug/L | 47.0 | 14.1 | 20 | | 11/26/19 11:27 | 95-50-1 | |
| 1,2-Dichloroethane | <5.6 | ug/L | 20.0 | 5.6 | 20 | | 11/26/19 11:27 | 107-06-2 | |
| 1,2-Dichloropropane | <5.7 | ug/L | 20.0 | 5.7 | 20 | | 11/26/19 11:27 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <17.5 | ug/L | 58.2 | 17.5 | 20 | | 11/26/19 11:27 | 108-67-8 | |
| 1,3-Dichlorobenzene | <12.6 | ug/L | 41.9 | 12.6 | 20 | | 11/26/19 11:27 | 541-73-1 | |
| 1,3-Dichloropropane | <16.5 | ug/L | 55.1 | 16.5 | 20 | | 11/26/19 11:27 | 142-28-9 | |
| 1,4-Dichlorobenzene | <18.9 | ug/L | 62.9 | 18.9 | 20 | | 11/26/19 11:27 | 106-46-7 | |
| 2,2-Dichloropropane | <45.3 | ug/L | 151 | 45.3 | 20 | | 11/26/19 11:27 | 594-20-7 | |
| 2-Chlorotoluene | <18.5 | ug/L | 100 | 18.5 | 20 | | 11/26/19 11:27 | 95-49-8 | |
| 4-Chlorotoluene | <15.1 | ug/L | 50.4 | 15.1 | 20 | | 11/26/19 11:27 | 106-43-4 | |
| Benzene | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 11:27 | 71-43-2 | |
| Bromobenzene | <4.8 | ug/L | 20.0 | 4.8 | 20 | | 11/26/19 11:27 | 108-86-1 | |
| Bromochloromethane | <7.2 | ug/L | 100 | 7.2 | 20 | | 11/26/19 11:27 | 74-97-5 | |
| Bromodichloromethane | <7.3 | ug/L | 24.2 | 7.3 | 20 | | 11/26/19 11:27 | 75-27-4 | |
| Bromoform | <79.4 | ug/L | 265 | 79.4 | 20 | | 11/26/19 11:27 | 75-25-2 | |
| Bromomethane | <19.4 | ug/L | 100 | 19.4 | 20 | | 11/26/19 11:27 | 74-83-9 | |
| Carbon tetrachloride | <3.3 | ug/L | 20.0 | 3.3 | 20 | | 11/26/19 11:27 | 56-23-5 | |
| Chlorobenzene | <14.2 | ug/L | 47.4 | 14.2 | 20 | | 11/26/19 11:27 | 108-90-7 | |
| Chloroethane | <26.8 | ug/L | 100 | 26.8 | 20 | | 11/26/19 11:27 | 75-00-3 | |
| Chloroform | <25.5 | ug/L | 100 | 25.5 | 20 | | 11/26/19 11:27 | 67-66-3 | |
| Chloromethane | <43.8 | ug/L | 146 | 43.8 | 20 | | 11/26/19 11:27 | 74-87-3 | |
| Dibromochloromethane | <52.0 | ug/L | 173 | 52.0 | 20 | | 11/26/19 11:27 | 124-48-1 | |
| Dibromomethane | <18.7 | ug/L | 62.5 | 18.7 | 20 | | 11/26/19 11:27 | 74-95-3 | |
| Dichlorodifluoromethane | <10 | ug/L | 100 | 10 | 20 | | 11/26/19 11:27 | 75-71-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: **MW-16** Lab ID: **40199775011** Collected: 11/20/19 12:37 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Diisopropyl ether | <37.8 | ug/L | 126 | 37.8 | 20 | | 11/26/19 11:27 | 108-20-3 | |
| Ethylbenzene | <4.4 | ug/L | 20.0 | 4.4 | 20 | | 11/26/19 11:27 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <23.6 | ug/L | 100 | 23.6 | 20 | | 11/26/19 11:27 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <7.9 | ug/L | 100 | 7.9 | 20 | | 11/26/19 11:27 | 98-82-8 | |
| Methyl-tert-butyl ether | <24.9 | ug/L | 83.1 | 24.9 | 20 | | 11/26/19 11:27 | 1634-04-4 | |
| Methylene Chloride | <11.6 | ug/L | 100 | 11.6 | 20 | | 11/26/19 11:27 | 75-09-2 | |
| Naphthalene | <23.5 | ug/L | 100 | 23.5 | 20 | | 11/26/19 11:27 | 91-20-3 | |
| Styrene | <9.3 | ug/L | 31.0 | 9.3 | 20 | | 11/26/19 11:27 | 100-42-5 | |
| Tetrachloroethene | <6.5 | ug/L | 21.8 | 6.5 | 20 | | 11/26/19 11:27 | 127-18-4 | |
| Toluene | <3.4 | ug/L | 100 | 3.4 | 20 | | 11/26/19 11:27 | 108-88-3 | |
| Trichloroethene | 33.8 | ug/L | 20.0 | 5.1 | 20 | | 11/26/19 11:27 | 79-01-6 | |
| Trichlorofluoromethane | <4.3 | ug/L | 20.0 | 4.3 | 20 | | 11/26/19 11:27 | 75-69-4 | |
| Vinyl chloride | 9.8J | ug/L | 20.0 | 3.5 | 20 | | 11/26/19 11:27 | 75-01-4 | |
| cis-1,2-Dichloroethene | 809 | ug/L | 20.0 | 5.4 | 20 | | 11/26/19 11:27 | 156-59-2 | |
| cis-1,3-Dichloropropene | <72.6 | ug/L | 242 | 72.6 | 20 | | 11/26/19 11:27 | 10061-01-5 | |
| m&p-Xylene | <9.3 | ug/L | 40.0 | 9.3 | 20 | | 11/26/19 11:27 | 179601-23-1 | |
| n-Butylbenzene | <14.2 | ug/L | 47.2 | 14.2 | 20 | | 11/26/19 11:27 | 104-51-8 | |
| n-Propylbenzene | <16.2 | ug/L | 100 | 16.2 | 20 | | 11/26/19 11:27 | 103-65-1 | |
| o-Xylene | <5.2 | ug/L | 20.0 | 5.2 | 20 | | 11/26/19 11:27 | 95-47-6 | |
| p-Isopropyltoluene | <16.0 | ug/L | 53.3 | 16.0 | 20 | | 11/26/19 11:27 | 99-87-6 | |
| sec-Butylbenzene | <17.0 | ug/L | 100 | 17.0 | 20 | | 11/26/19 11:27 | 135-98-8 | |
| tert-Butylbenzene | <6.1 | ug/L | 20.3 | 6.1 | 20 | | 11/26/19 11:27 | 98-06-6 | |
| trans-1,2-Dichloroethene | 36.8J | ug/L | 72.7 | 21.8 | 20 | | 11/26/19 11:27 | 156-60-5 | |
| trans-1,3-Dichloropropene | <87.4 | ug/L | 291 | 87.4 | 20 | | 11/26/19 11:27 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 20 | | 11/26/19 11:27 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 20 | | 11/26/19 11:27 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 20 | | 11/26/19 11:27 | 2037-26-5 | |

| | | | | | | | | | |
|---|------|------|------|-----|---|--|----------------|------------|--|
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 62.4 | mg/L | 10.0 | 2.2 | 5 | | 12/05/19 02:58 | 14808-79-8 | |

| | | | | | | | | | |
|--|-----|------|-----|------|---|--|----------------|--|--|
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 431 | mg/L | 117 | 35.2 | 5 | | 12/03/19 12:28 | | |

| | | | | | | | | | |
|--|-----|------|------|------|---|--|----------------|-----------|--|
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.1 | mg/L | 0.50 | 0.15 | 1 | | 12/03/19 20:30 | 7440-44-0 | |

Sample: **OP-2** Lab ID: **40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:10 | 74-84-0 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-2 **Lab ID: 40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:10 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:10 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:05 | 7439-89-6 | |
| Manganese, Dissolved | 2.0J | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:05 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 11:48 | 630-20-6 | |
| 1,1,1-Trichloroethane | 167 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 11:48 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 11:48 | 79-34-5 | |
| 1,1,2-Trichloroethane | <2.8 | ug/L | 25.0 | 2.8 | 5 | | 11/26/19 11:48 | 79-00-5 | |
| 1,1-Dichloroethane | 25.5 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 11:48 | 75-34-3 | |
| 1,1-Dichloroethene | 6.9 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 11:48 | 75-35-4 | |
| 1,1-Dichloropropene | <2.7 | ug/L | 9.0 | 2.7 | 5 | | 11/26/19 11:48 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <3.1 | ug/L | 25.0 | 3.1 | 5 | | 11/26/19 11:48 | 87-61-6 | |
| 1,2,3-Trichloropropane | <3.0 | ug/L | 25.0 | 3.0 | 5 | | 11/26/19 11:48 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <4.8 | ug/L | 25.0 | 4.8 | 5 | | 11/26/19 11:48 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <4.2 | ug/L | 14.0 | 4.2 | 5 | | 11/26/19 11:48 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <8.8 | ug/L | 29.4 | 8.8 | 5 | | 11/26/19 11:48 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 11:48 | 106-93-4 | |
| 1,2-Dichlorobenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 11:48 | 95-50-1 | |
| 1,2-Dichloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 11:48 | 107-06-2 | |
| 1,2-Dichloropropane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 11:48 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <4.4 | ug/L | 14.6 | 4.4 | 5 | | 11/26/19 11:48 | 108-67-8 | |
| 1,3-Dichlorobenzene | <3.1 | ug/L | 10.5 | 3.1 | 5 | | 11/26/19 11:48 | 541-73-1 | |
| 1,3-Dichloropropane | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 11:48 | 142-28-9 | |
| 1,4-Dichlorobenzene | <4.7 | ug/L | 15.7 | 4.7 | 5 | | 11/26/19 11:48 | 106-46-7 | |
| 2,2-Dichloropropane | <11.3 | ug/L | 37.8 | 11.3 | 5 | | 11/26/19 11:48 | 594-20-7 | |
| 2-Chlorotoluene | <4.6 | ug/L | 25.0 | 4.6 | 5 | | 11/26/19 11:48 | 95-49-8 | |
| 4-Chlorotoluene | <3.8 | ug/L | 12.6 | 3.8 | 5 | | 11/26/19 11:48 | 106-43-4 | |
| Benzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 11:48 | 71-43-2 | |
| Bromobenzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 11:48 | 108-86-1 | |
| Bromochloromethane | <1.8 | ug/L | 25.0 | 1.8 | 5 | | 11/26/19 11:48 | 74-97-5 | |
| Bromodichloromethane | <1.8 | ug/L | 6.1 | 1.8 | 5 | | 11/26/19 11:48 | 75-27-4 | |
| Bromoform | <19.9 | ug/L | 66.2 | 19.9 | 5 | | 11/26/19 11:48 | 75-25-2 | |
| Bromomethane | <4.9 | ug/L | 25.0 | 4.9 | 5 | | 11/26/19 11:48 | 74-83-9 | |
| Carbon tetrachloride | <0.83 | ug/L | 5.0 | 0.83 | 5 | | 11/26/19 11:48 | 56-23-5 | |
| Chlorobenzene | <3.6 | ug/L | 11.8 | 3.6 | 5 | | 11/26/19 11:48 | 108-90-7 | |
| Chloroethane | <6.7 | ug/L | 25.0 | 6.7 | 5 | | 11/26/19 11:48 | 75-00-3 | |
| Chloroform | <6.4 | ug/L | 25.0 | 6.4 | 5 | | 11/26/19 11:48 | 67-66-3 | |
| Chloromethane | <10.9 | ug/L | 36.5 | 10.9 | 5 | | 11/26/19 11:48 | 74-87-3 | |
| Dibromochloromethane | <13.0 | ug/L | 43.4 | 13.0 | 5 | | 11/26/19 11:48 | 124-48-1 | |
| Dibromomethane | <4.7 | ug/L | 15.6 | 4.7 | 5 | | 11/26/19 11:48 | 74-95-3 | |
| Dichlorodifluoromethane | <2.5 | ug/L | 25.0 | 2.5 | 5 | | 11/26/19 11:48 | 75-71-8 | |
| Diisopropyl ether | <9.4 | ug/L | 31.5 | 9.4 | 5 | | 11/26/19 11:48 | 108-20-3 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-2 **Lab ID: 40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Ethylbenzene | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 11:48 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 11:48 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <2.0 | ug/L | 25.0 | 2.0 | 5 | | 11/26/19 11:48 | 98-82-8 | |
| Methyl-tert-butyl ether | <6.2 | ug/L | 20.8 | 6.2 | 5 | | 11/26/19 11:48 | 1634-04-4 | |
| Methylene Chloride | <2.9 | ug/L | 25.0 | 2.9 | 5 | | 11/26/19 11:48 | 75-09-2 | |
| Naphthalene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 11:48 | 91-20-3 | |
| Styrene | <2.3 | ug/L | 7.8 | 2.3 | 5 | | 11/26/19 11:48 | 100-42-5 | |
| Tetrachloroethene | <1.6 | ug/L | 5.4 | 1.6 | 5 | | 11/26/19 11:48 | 127-18-4 | |
| Toluene | <0.86 | ug/L | 25.0 | 0.86 | 5 | | 11/26/19 11:48 | 108-88-3 | |
| Trichloroethene | 698 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 11:48 | 79-01-6 | |
| Trichlorofluoromethane | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 11:48 | 75-69-4 | |
| Vinyl chloride | 5.8 | ug/L | 5.0 | 0.87 | 5 | | 11/26/19 11:48 | 75-01-4 | |
| cis-1,2-Dichloroethene | 642 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 11:48 | 156-59-2 | |
| cis-1,3-Dichloropropene | <18.1 | ug/L | 60.5 | 18.1 | 5 | | 11/26/19 11:48 | 10061-01-5 | |
| m&p-Xylene | <2.3 | ug/L | 10.0 | 2.3 | 5 | | 11/26/19 11:48 | 179601-23-1 | |
| n-Butylbenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 11:48 | 104-51-8 | |
| n-Propylbenzene | <4.1 | ug/L | 25.0 | 4.1 | 5 | | 11/26/19 11:48 | 103-65-1 | |
| o-Xylene | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 11:48 | 95-47-6 | |
| p-Isopropyltoluene | <4.0 | ug/L | 13.3 | 4.0 | 5 | | 11/26/19 11:48 | 99-87-6 | |
| sec-Butylbenzene | <4.2 | ug/L | 25.0 | 4.2 | 5 | | 11/26/19 11:48 | 135-98-8 | |
| tert-Butylbenzene | <1.5 | ug/L | 5.1 | 1.5 | 5 | | 11/26/19 11:48 | 98-06-6 | |
| trans-1,2-Dichloroethene | <5.5 | ug/L | 18.2 | 5.5 | 5 | | 11/26/19 11:48 | 156-60-5 | |
| trans-1,3-Dichloropropene | <21.9 | ug/L | 72.8 | 21.9 | 5 | | 11/26/19 11:48 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 5 | | 11/26/19 11:48 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 5 | | 11/26/19 11:48 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 5 | | 11/26/19 11:48 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 75.8 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 14:35 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 403 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:31 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.3 | mg/L | 0.50 | 0.15 | 1 | | 12/03/19 21:12 | 7440-44-0 | |

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:56 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:56 | 71-55-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:56 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 13:56 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:56 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:56 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 13:56 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 13:56 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 13:56 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 13:56 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 13:56 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 13:56 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:56 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:56 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:56 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 13:56 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 13:56 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 13:56 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 13:56 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:56 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 13:56 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 13:56 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 13:56 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 13:56 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 13:56 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 13:56 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 13:56 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 13:56 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 13:56 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:56 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:56 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:56 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 13:56 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 13:56 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 13:56 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 13:56 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 13:56 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 13:56 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 13:56 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:56 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 13:56 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 13:56 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 13:56 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 13:56 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 13:56 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 13:56 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 13:56 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:56 | 79-01-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 13:56 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 13:56 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 13:56 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 13:56 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 13:56 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 13:56 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 13:56 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 13:56 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 13:56 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 13:56 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 13:56 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 13:56 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 13:56 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 11/26/19 13:56 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 1 | | 11/26/19 13:56 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/26/19 13:56 | 2037-26-5 | |

Sample: MW-27 **Lab ID: 40199775014** Collected: 11/20/19 09:27 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:43 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:43 | 71-55-6 | |
| 1,1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:43 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 15:43 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:43 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:43 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 15:43 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 15:43 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 15:43 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 15:43 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 15:43 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 15:43 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:43 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:43 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:43 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:43 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 15:43 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 15:43 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:43 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:43 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 15:43 | 594-20-7 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-27 **Lab ID: 40199775014** Collected: 11/20/19 09:27 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 15:43 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 15:43 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 15:43 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:43 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 15:43 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 15:43 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 15:43 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 15:43 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:43 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:43 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:43 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:43 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 15:43 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 15:43 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:43 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 15:43 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 15:43 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 15:43 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:43 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 15:43 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 15:43 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 15:43 | 75-09-2 | |
| Naphthalene | 1.2J | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:43 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 15:43 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 15:43 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 15:43 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:43 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 15:43 | 75-69-4 | |
| Vinyl chloride | 0.30J | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:43 | 75-01-4 | |
| cis-1,2-Dichloroethene | 0.34J | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:43 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 15:43 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 15:43 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:43 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 15:43 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:43 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 15:43 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 15:43 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 15:43 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 15:43 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 15:43 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 92 | % | 70-130 | | 1 | | 11/26/19 15:43 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 1 | | 11/26/19 15:43 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 11/26/19 15:43 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-13R **Lab ID: 40199775015** Collected: 11/20/19 13:33 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethane | 6.3 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:17 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:17 | 74-85-1 | |
| Methane | 248 | ug/L | 5.6 | 1.3 | 2 | | 11/26/19 12:34 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | 5840 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:07 | 7439-89-6 | |
| Manganese, Dissolved | 1100 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:07 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:05 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:05 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:05 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:05 | 79-00-5 | |
| 1,1-Dichloroethane | 1.8 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:05 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:05 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:05 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:05 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:05 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:05 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:05 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:05 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:05 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:05 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:05 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:05 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:05 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:05 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:05 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:05 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:05 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:05 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:05 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:05 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:05 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:05 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:05 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:05 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:05 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:05 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:05 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:05 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:05 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:05 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:05 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:05 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:05 | 75-71-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-13R **Lab ID: 40199775015** Collected: 11/20/19 13:33 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:05 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:05 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:05 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:05 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:05 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:05 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:05 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:05 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:05 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:05 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:05 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:05 | 75-69-4 | |
| Vinyl chloride | 10.0 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:05 | 75-01-4 | |
| cis-1,2-Dichloroethene | 2.8 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:05 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:05 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:05 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:05 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:05 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:05 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:05 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:05 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:05 | 98-06-6 | |
| trans-1,2-Dichloroethene | 1.4J | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:05 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:05 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | | 1 | | 11/26/19 16:05 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 11/26/19 16:05 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 11/26/19 16:05 | 2037-26-5 | |

| | | | | | | | | | |
|---|-----|------|------|-----|---|--|----------------|------------|--|
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 102 | mg/L | 10.0 | 2.2 | 5 | | 12/05/19 03:11 | 14808-79-8 | |

| | | | | | | | | | |
|--|-----|------|------|------|---|--|----------------|--|--|
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 522 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:32 | | |

| | | | | | | | | | |
|--|-----|------|-----|------|---|--|----------------|-----------|--|
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 5.5 | mg/L | 1.5 | 0.45 | 3 | | 12/03/19 21:33 | 7440-44-0 | |

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:26 | 630-20-6 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:26 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:26 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:26 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:26 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:26 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:26 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:26 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:26 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:26 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:26 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:26 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:26 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:26 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:26 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:26 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:26 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:26 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:26 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:26 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:26 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:26 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:26 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:26 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:26 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:26 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:26 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:26 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:26 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:26 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:26 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:26 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:26 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:26 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:26 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:26 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:26 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:26 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:26 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:26 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:26 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:26 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:26 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:26 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:26 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:26 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:26 | 108-88-3 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:26 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:26 | 75-69-4 | |
| Vinyl chloride | 0.40J | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:26 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:26 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:26 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:26 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:26 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:26 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:26 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:26 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:26 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:26 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:26 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:26 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 1 | | 11/26/19 16:26 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 11/26/19 16:26 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 11/26/19 16:26 | 2037-26-5 | |

Sample: MW-41 **Lab ID: 40199775017** Collected: 11/20/19 11:54 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:24 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:24 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:24 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | 93.0J | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:09 | 7439-89-6 | |
| Manganese, Dissolved | 805 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:09 | 7439-96-5 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:48 | 630-20-6 | |
| 1,1,1-Trichloroethane | 2.1 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:48 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:48 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:48 | 79-00-5 | |
| 1,1-Dichloroethane | 1.7 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:48 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:48 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:48 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:48 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:48 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:48 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:48 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-41 **Lab ID: 40199775017** Collected: 11/20/19 11:54 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:48 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:48 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:48 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:48 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:48 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:48 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:48 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:48 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:48 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:48 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:48 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:48 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:48 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:48 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:48 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:48 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:48 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:48 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:48 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:48 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:48 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:48 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:48 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:48 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:48 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:48 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:48 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:48 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:48 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:48 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:48 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:48 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:48 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:48 | 100-42-5 | |
| Tetrachloroethene | 1.1J | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:48 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:48 | 108-88-3 | |
| Trichloroethene | 30.2 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:48 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:48 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:48 | 75-01-4 | |
| cis-1,2-Dichloroethene | 3.6 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:48 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:48 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:48 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:48 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:48 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:48 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:48 | 99-87-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Sample: MW-41 Lab ID: 40199775017 Collected: 11/20/19 11:54 Received: 11/22/19 08:55 Matrix: Water | | | | | | | | | |
|--|---------|-------|--------|------|----|----------|----------------|------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:48 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:48 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:48 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:48 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 11/26/19 16:48 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 11/26/19 16:48 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 11/26/19 16:48 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 43.1 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 15:41 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 401 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:33 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 57.7 | mg/L | 15.0 | 4.5 | 30 | | 12/04/19 10:20 | 7440-44-0 | |

| Sample: OP-3 Lab ID: 40199775018 Collected: 11/20/19 14:50 Received: 11/22/19 08:55 Matrix: Water | | | | | | | | | |
|---|---------|-------|------|------|----|----------|----------------|-----------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | 6.6 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:31 | 74-84-0 | |
| Ethene | 7.1 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:31 | 74-85-1 | |
| Methane | 272 | ug/L | 5.6 | 1.3 | 2 | | 11/26/19 12:40 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | 502 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:12 | 7439-89-6 | |
| Manganese, Dissolved | 188 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:12 | 7439-96-5 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 17:09 | 630-20-6 | |
| 1,1,1-Trichloroethane | 179 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 17:09 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 17:09 | 79-34-5 | |
| 1,1,2-Trichloroethane | <2.8 | ug/L | 25.0 | 2.8 | 5 | | 11/26/19 17:09 | 79-00-5 | |
| 1,1-Dichloroethane | 90.7 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 17:09 | 75-34-3 | |
| 1,1-Dichloroethene | 27.5 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 17:09 | 75-35-4 | |
| 1,1-Dichloropropene | <2.7 | ug/L | 9.0 | 2.7 | 5 | | 11/26/19 17:09 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <3.1 | ug/L | 25.0 | 3.1 | 5 | | 11/26/19 17:09 | 87-61-6 | |
| 1,2,3-Trichloropropane | <3.0 | ug/L | 25.0 | 3.0 | 5 | | 11/26/19 17:09 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <4.8 | ug/L | 25.0 | 4.8 | 5 | | 11/26/19 17:09 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <4.2 | ug/L | 14.0 | 4.2 | 5 | | 11/26/19 17:09 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-3 **Lab ID: 40199775018** Collected: 11/20/19 14:50 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <8.8 | ug/L | 29.4 | 8.8 | 5 | | 11/26/19 17:09 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 17:09 | 106-93-4 | |
| 1,2-Dichlorobenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 17:09 | 95-50-1 | |
| 1,2-Dichloroethane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 17:09 | 107-06-2 | |
| 1,2-Dichloropropane | <1.4 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 17:09 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <4.4 | ug/L | 14.6 | 4.4 | 5 | | 11/26/19 17:09 | 108-67-8 | |
| 1,3-Dichlorobenzene | <3.1 | ug/L | 10.5 | 3.1 | 5 | | 11/26/19 17:09 | 541-73-1 | |
| 1,3-Dichloropropane | <4.1 | ug/L | 13.8 | 4.1 | 5 | | 11/26/19 17:09 | 142-28-9 | |
| 1,4-Dichlorobenzene | <4.7 | ug/L | 15.7 | 4.7 | 5 | | 11/26/19 17:09 | 106-46-7 | |
| 2,2-Dichloropropane | <11.3 | ug/L | 37.8 | 11.3 | 5 | | 11/26/19 17:09 | 594-20-7 | |
| 2-Chlorotoluene | <4.6 | ug/L | 25.0 | 4.6 | 5 | | 11/26/19 17:09 | 95-49-8 | |
| 4-Chlorotoluene | <3.8 | ug/L | 12.6 | 3.8 | 5 | | 11/26/19 17:09 | 106-43-4 | |
| Benzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 17:09 | 71-43-2 | |
| Bromobenzene | <1.2 | ug/L | 5.0 | 1.2 | 5 | | 11/26/19 17:09 | 108-86-1 | |
| Bromochloromethane | <1.8 | ug/L | 25.0 | 1.8 | 5 | | 11/26/19 17:09 | 74-97-5 | |
| Bromodichloromethane | <1.8 | ug/L | 6.1 | 1.8 | 5 | | 11/26/19 17:09 | 75-27-4 | |
| Bromoform | <19.9 | ug/L | 66.2 | 19.9 | 5 | | 11/26/19 17:09 | 75-25-2 | |
| Bromomethane | <4.9 | ug/L | 25.0 | 4.9 | 5 | | 11/26/19 17:09 | 74-83-9 | |
| Carbon tetrachloride | <0.83 | ug/L | 5.0 | 0.83 | 5 | | 11/26/19 17:09 | 56-23-5 | |
| Chlorobenzene | <3.6 | ug/L | 11.8 | 3.6 | 5 | | 11/26/19 17:09 | 108-90-7 | |
| Chloroethane | 8.7J | ug/L | 25.0 | 6.7 | 5 | | 11/26/19 17:09 | 75-00-3 | |
| Chloroform | <6.4 | ug/L | 25.0 | 6.4 | 5 | | 11/26/19 17:09 | 67-66-3 | |
| Chloromethane | <10.9 | ug/L | 36.5 | 10.9 | 5 | | 11/26/19 17:09 | 74-87-3 | |
| Dibromochloromethane | <13.0 | ug/L | 43.4 | 13.0 | 5 | | 11/26/19 17:09 | 124-48-1 | |
| Dibromomethane | <4.7 | ug/L | 15.6 | 4.7 | 5 | | 11/26/19 17:09 | 74-95-3 | |
| Dichlorodifluoromethane | <2.5 | ug/L | 25.0 | 2.5 | 5 | | 11/26/19 17:09 | 75-71-8 | |
| Diisopropyl ether | <9.4 | ug/L | 31.5 | 9.4 | 5 | | 11/26/19 17:09 | 108-20-3 | |
| Ethylbenzene | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 17:09 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 17:09 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <2.0 | ug/L | 25.0 | 2.0 | 5 | | 11/26/19 17:09 | 98-82-8 | |
| Methyl-tert-butyl ether | <6.2 | ug/L | 20.8 | 6.2 | 5 | | 11/26/19 17:09 | 1634-04-4 | |
| Methylene Chloride | <2.9 | ug/L | 25.0 | 2.9 | 5 | | 11/26/19 17:09 | 75-09-2 | |
| Naphthalene | <5.9 | ug/L | 25.0 | 5.9 | 5 | | 11/26/19 17:09 | 91-20-3 | |
| Styrene | <2.3 | ug/L | 7.8 | 2.3 | 5 | | 11/26/19 17:09 | 100-42-5 | |
| Tetrachloroethene | <1.6 | ug/L | 5.4 | 1.6 | 5 | | 11/26/19 17:09 | 127-18-4 | |
| Toluene | <0.86 | ug/L | 25.0 | 0.86 | 5 | | 11/26/19 17:09 | 108-88-3 | |
| Trichloroethene | 474 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 17:09 | 79-01-6 | |
| Trichlorofluoromethane | <1.1 | ug/L | 5.0 | 1.1 | 5 | | 11/26/19 17:09 | 75-69-4 | |
| Vinyl chloride | 49.4 | ug/L | 5.0 | 0.87 | 5 | | 11/26/19 17:09 | 75-01-4 | |
| cis-1,2-Dichloroethene | 382 | ug/L | 5.0 | 1.4 | 5 | | 11/26/19 17:09 | 156-59-2 | |
| cis-1,3-Dichloropropene | <18.1 | ug/L | 60.5 | 18.1 | 5 | | 11/26/19 17:09 | 10061-01-5 | |
| m&p-Xylene | <2.3 | ug/L | 10.0 | 2.3 | 5 | | 11/26/19 17:09 | 179601-23-1 | |
| n-Butylbenzene | <3.5 | ug/L | 11.8 | 3.5 | 5 | | 11/26/19 17:09 | 104-51-8 | |
| n-Propylbenzene | <4.1 | ug/L | 25.0 | 4.1 | 5 | | 11/26/19 17:09 | 103-65-1 | |
| o-Xylene | <1.3 | ug/L | 5.0 | 1.3 | 5 | | 11/26/19 17:09 | 95-47-6 | |
| p-Isopropyltoluene | <4.0 | ug/L | 13.3 | 4.0 | 5 | | 11/26/19 17:09 | 99-87-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|------------|------|
| Sample: OP-3 Lab ID: 40199775018 Collected: 11/20/19 14:50 Received: 11/22/19 08:55 Matrix: Water | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| sec-Butylbenzene | <4.2 | ug/L | 25.0 | 4.2 | 5 | | 11/26/19 17:09 | 135-98-8 | |
| tert-Butylbenzene | <1.5 | ug/L | 5.1 | 1.5 | 5 | | 11/26/19 17:09 | 98-06-6 | |
| trans-1,2-Dichloroethene | 11.8J | ug/L | 18.2 | 5.5 | 5 | | 11/26/19 17:09 | 156-60-5 | |
| trans-1,3-Dichloropropene | <21.9 | ug/L | 72.8 | 21.9 | 5 | | 11/26/19 17:09 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | | 5 | | 11/26/19 17:09 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 5 | | 11/26/19 17:09 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 5 | | 11/26/19 17:09 | 2037-26-5 | |
| Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 37.5 | mg/L | 2.0 | 0.44 | 1 | | 12/04/19 15:54 | 14808-79-8 | |
| Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 396 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:33 | | |
| Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.3 | mg/L | 0.50 | 0.15 | 1 | | 12/03/19 22:15 | 7440-44-0 | |

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| Sample: TRIP Lab ID: 40199775019 Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:35 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:35 | 71-55-6 | |
| 1,1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:35 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 08:35 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:35 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:35 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 08:35 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 08:35 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 08:35 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 08:35 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 08:35 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 08:35 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:35 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:35 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:35 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:35 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 08:35 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 08:35 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:35 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:35 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 08:35 | 594-20-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: TRIP **Lab ID: 40199775019** Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 08:35 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 08:35 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 08:35 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:35 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 08:35 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 08:35 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 08:35 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 08:35 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:35 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:35 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:35 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:35 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 08:35 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 08:35 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:35 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 08:35 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 08:35 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 08:35 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:35 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 08:35 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 08:35 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 08:35 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:35 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 08:35 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 08:35 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 08:35 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:35 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 08:35 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:35 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:35 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 08:35 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 08:35 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:35 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 08:35 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:35 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 08:35 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 08:35 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 08:35 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 08:35 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 08:35 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 11/26/19 08:35 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 1 | | 11/26/19 08:35 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 11/26/19 08:35 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

QC Batch: 341854 Analysis Method: EPA 8015B Modified
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
 Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1985615 Matrix: Water
 Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Ethane | ug/L | <1.2 | 5.6 | 11/26/19 08:24 | |
| Ethene | ug/L | <1.2 | 5.0 | 11/26/19 08:24 | |
| Methane | ug/L | <0.66 | 2.8 | 11/26/19 08:24 | |

LABORATORY CONTROL SAMPLE & LCSD: 1985616 1985617

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Ethane | ug/L | 53.6 | 54.7 | 54.7 | 102 | 102 | 80-120 | 0 | 20 | |
| Ethene | ug/L | 50 | 50.8 | 50.7 | 102 | 101 | 80-120 | 0 | 20 | |
| Methane | ug/L | 28.6 | 27.9 | 27.9 | 98 | 98 | 80-120 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985903 1985904

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 40199775005 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| Ethane | ug/L | <1.2 | 53.6 | 53.6 | 52.1 | 49.3 | 97 | 92 | 80-120 | 6 | 20 |
| Ethene | ug/L | <1.2 | 50 | 50 | 47.9 | 45.3 | 96 | 91 | 80-120 | 6 | 20 |
| Methane | ug/L | <0.66 | 28.6 | 28.6 | 26.2 | 25.0 | 92 | 88 | 77-122 | 5 | 20 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

QC Batch: 341922 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1985825 Matrix: Water
 Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Iron, Dissolved | ug/L | <29.6 | 100 | 11/26/19 20:26 | |
| Manganese, Dissolved | ug/L | <1.1 | 5.0 | 11/26/19 20:26 | |

LABORATORY CONTROL SAMPLE: 1985826

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Iron, Dissolved | ug/L | 5000 | 4790 | 96 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 482 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985827 1985828

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 40199775001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Iron, Dissolved | ug/L | <29.6 | 5000 | 5000 | 4640 | 4610 | 93 | 92 | 75-125 | 1 | 20 | | |
| Manganese, Dissolved | ug/L | 79.6 | 500 | 500 | 552 | 552 | 94 | 95 | 75-125 | 0 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

QC Batch: 341729 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014,
 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

METHOD BLANK: 1985174

Matrix: Water

Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007,
 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014,
 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

| Parameter | Units | Blank Reporting | | Analyzed | Qualifiers |
|-----------------------------|-------|-----------------|-------|----------------|------------|
| | | Result | Limit | | |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 11/26/19 06:27 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 11/26/19 06:27 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 11/26/19 06:27 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 11/26/19 06:27 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 11/26/19 06:27 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 11/26/19 06:27 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 11/26/19 06:27 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 11/26/19 06:27 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 11/26/19 06:27 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 11/26/19 06:27 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 11/26/19 06:27 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 11/26/19 06:27 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 11/26/19 06:27 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:27 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 11/26/19 06:27 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 11/26/19 06:27 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 11/26/19 06:27 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 11/26/19 06:27 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 11/26/19 06:27 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 11/26/19 06:27 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 11/26/19 06:27 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 11/26/19 06:27 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 11/26/19 06:27 | |
| Benzene | ug/L | <0.25 | 1.0 | 11/26/19 06:27 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 11/26/19 06:27 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 11/26/19 06:27 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 11/26/19 06:27 | |
| Bromoform | ug/L | <4.0 | 13.2 | 11/26/19 06:27 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 11/26/19 06:27 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 11/26/19 06:27 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:27 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 11/26/19 06:27 | |
| Chloroform | ug/L | <1.3 | 5.0 | 11/26/19 06:27 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 11/26/19 06:27 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 11/26/19 06:27 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 11/26/19 06:27 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 11/26/19 06:27 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 11/26/19 06:27 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

METHOD BLANK: 1985174

Matrix: Water

Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014, 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 11/26/19 06:27 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 11/26/19 06:27 | |
| Ethylbenzene | ug/L | <0.22 | 1.0 | 11/26/19 06:27 | |
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 11/26/19 06:27 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 11/26/19 06:27 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 11/26/19 06:27 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 11/26/19 06:27 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 11/26/19 06:27 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:27 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 11/26/19 06:27 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 11/26/19 06:27 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 11/26/19 06:27 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 11/26/19 06:27 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 11/26/19 06:27 | |
| Styrene | ug/L | <0.47 | 1.6 | 11/26/19 06:27 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 11/26/19 06:27 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 11/26/19 06:27 | |
| Toluene | ug/L | <0.17 | 5.0 | 11/26/19 06:27 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 11/26/19 06:27 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 11/26/19 06:27 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 11/26/19 06:27 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 11/26/19 06:27 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 11/26/19 06:27 | |
| 4-Bromofluorobenzene (S) | % | 95 | 70-130 | 11/26/19 06:27 | |
| Dibromofluoromethane (S) | % | 100 | 70-130 | 11/26/19 06:27 | |
| Toluene-d8 (S) | % | 99 | 70-130 | 11/26/19 06:27 | |

LABORATORY CONTROL SAMPLE: 1985175

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 49.4 | 99 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 49.1 | 98 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 49.3 | 99 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 53.8 | 108 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 50.4 | 101 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 50.8 | 102 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 39.7 | 79 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 49.6 | 99 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 50.7 | 101 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 49.2 | 98 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 49.3 | 99 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 50.8 | 102 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

LABORATORY CONTROL SAMPLE: 1985175

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,4-Dichlorobenzene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Benzene | ug/L | 50 | 52.3 | 105 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 48.4 | 97 | 70-130 | |
| Bromoform | ug/L | 50 | 42.3 | 85 | 68-129 | |
| Bromomethane | ug/L | 50 | 35.3 | 71 | 18-159 | |
| Carbon tetrachloride | ug/L | 50 | 43.3 | 87 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Chloroethane | ug/L | 50 | 51.3 | 103 | 53-147 | |
| Chloroform | ug/L | 50 | 49.5 | 99 | 74-136 | |
| Chloromethane | ug/L | 50 | 38.3 | 77 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 51.3 | 103 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 47.5 | 95 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 32.6 | 65 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 52.1 | 104 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 52.7 | 105 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 104 | 104 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 46.2 | 92 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 51.1 | 102 | 73-138 | |
| o-Xylene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| Styrene | ug/L | 50 | 52.5 | 105 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 49.5 | 99 | 70-130 | |
| Toluene | ug/L | 50 | 52.1 | 104 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 53.3 | 107 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 40.0 | 80 | 70-130 | |
| Trichloroethene | ug/L | 50 | 53.5 | 107 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 51.0 | 102 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 45.1 | 90 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 97 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 99 | 70-130 | |
| Toluene-d8 (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985584 1985585

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|-------------|--------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 40199775007 | Result | Spike Conc. | Spike Conc. | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 0.31J | 50 | 50 | 50.5 | 51.4 | 100 | 102 | 70-130 | 2 | 20 | | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 49.6 | 51.3 | 99 | 103 | 70-130 | 3 | 20 | | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 51.0 | 50.4 | 102 | 101 | 70-137 | 1 | 20 | | |
| 1,1-Dichloroethane | ug/L | <0.27 | 50 | 50 | 55.2 | 55.3 | 110 | 111 | 73-153 | 0 | 20 | | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 51.1 | 52.8 | 102 | 106 | 73-138 | 3 | 20 | | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 51.0 | 52.2 | 102 | 104 | 70-130 | 2 | 20 | | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 42.9 | 42.2 | 86 | 84 | 58-129 | 2 | 20 | | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 50.1 | 50.4 | 100 | 101 | 70-130 | 1 | 20 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

| Parameter | Units | 1985584 | | 1985585 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|-----|------------|------|
| | | 40199775007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 52.9 | 53.3 | 106 | 107 | 70-130 | 1 | 20 | | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 50.3 | 49.7 | 101 | 99 | 75-140 | 1 | 20 | | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 49.5 | 50.5 | 99 | 101 | 71-138 | 2 | 20 | | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 52.4 | 54.0 | 105 | 108 | 70-130 | 3 | 20 | | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 51.7 | 51.9 | 103 | 104 | 70-130 | 0 | 20 | | |
| Benzene | ug/L | <0.25 | 50 | 50 | 52.2 | 53.2 | 104 | 106 | 70-130 | 2 | 20 | | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 50.3 | 49.7 | 101 | 99 | 70-130 | 1 | 20 | | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 42.2 | 42.0 | 84 | 84 | 68-129 | 0 | 20 | | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 38.5 | 40.4 | 77 | 81 | 15-170 | 5 | 20 | | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 44.3 | 44.3 | 89 | 89 | 70-130 | 0 | 20 | | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 53.4 | 52.4 | 107 | 105 | 70-130 | 2 | 20 | | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 50.9 | 50.2 | 102 | 100 | 51-148 | 1 | 20 | | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 49.1 | 50.2 | 98 | 100 | 74-136 | 2 | 20 | | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 37.3 | 39.5 | 75 | 79 | 23-115 | 6 | 20 | | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 50 | 50 | 51.5 | 50.8 | 103 | 102 | 70-131 | 1 | 20 | | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 49.7 | 49.4 | 99 | 99 | 70-130 | 1 | 20 | | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 47.4 | 47.1 | 95 | 94 | 70-130 | 1 | 20 | | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 32.3 | 32.5 | 65 | 65 | 10-132 | 0 | 20 | | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 53.3 | 52.8 | 107 | 106 | 80-125 | 1 | 20 | | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 53.4 | 52.0 | 107 | 104 | 70-130 | 3 | 20 | | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 104 | 105 | 104 | 105 | 70-130 | 0 | 20 | | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 46.9 | 49.0 | 94 | 98 | 51-145 | 4 | 20 | | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 52.6 | 53.5 | 105 | 107 | 73-140 | 2 | 20 | | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 51.9 | 52.0 | 104 | 104 | 70-130 | 0 | 20 | | |
| Styrene | ug/L | <0.47 | 50 | 50 | 52.6 | 52.2 | 105 | 104 | 70-130 | 1 | 20 | | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 50.8 | 49.8 | 101 | 99 | 70-130 | 2 | 20 | | |
| Toluene | ug/L | <0.17 | 50 | 50 | 52.7 | 51.9 | 105 | 104 | 80-131 | 1 | 20 | | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 53.4 | 54.1 | 107 | 108 | 73-148 | 1 | 20 | | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 40.7 | 40.9 | 81 | 82 | 70-130 | 0 | 20 | | |
| Trichloroethene | ug/L | 0.57J | 50 | 50 | 53.9 | 54.8 | 107 | 108 | 70-130 | 2 | 20 | | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 52.2 | 51.8 | 104 | 104 | 74-147 | 1 | 20 | | |
| Vinyl chloride | ug/L | <0.17 | 50 | 50 | 44.6 | 45.7 | 89 | 91 | 41-129 | 2 | 20 | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 97 | 96 | 70-130 | | | | |
| Dibromofluoromethane (S) | % | | | | | | 98 | 98 | 70-130 | | | | |
| Toluene-d8 (S) | % | | | | | | 97 | 97 | 70-130 | | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 342231 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1987472 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Sulfate | mg/L | <0.44 | 2.0 | 12/04/19 10:37 | |

LABORATORY CONTROL SAMPLE: 1987473

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 20 | 20.2 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987474 1987475

| Parameter | Units | 40199545001 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|------------|-----|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | | |
| Sulfate | mg/L | 68.2 | 400 | 479 | 479 | 103 | 103 | 90-110 | 0 | 15 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987476 1987477

| Parameter | Units | 40199817008 Result | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-----------|------------|-----|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | MS Result | MSD Result | | | | | | | |
| Sulfate | mg/L | 78.4 | 100 | 180 | 177 | 101 | 98 | 90-110 | 2 | 15 | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

| | | | |
|-------------------------|--|-----------------------|------------------|
| QC Batch: | 342297 | Analysis Method: | EPA 310.2 |
| QC Batch Method: | EPA 310.2 | Analysis Description: | 310.2 Alkalinity |
| Associated Lab Samples: | 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 1987719 | Matrix: | Water |
| Associated Lab Samples: | 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018 | | |

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

LABORATORY CONTROL SAMPLE: 1987720

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 100 | 101 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987721 1987722

| Parameter | Units | 40199775011 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 | 431 | 500 | 500 | 906 | 911 | 95 | 96 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987723 1987724

| Parameter | Units | 40199653001 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 | 120 | 500 | 500 | 575 | 617 | 91 | 100 | 90-110 | 7 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 342282 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1987653 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Total Organic Carbon | mg/L | <0.15 | 0.50 | 12/03/19 13:30 | |

LABORATORY CONTROL SAMPLE: 1987654

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Organic Carbon | mg/L | 2.5 | 2.3 | 91 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987655 1987656

| Parameter | Units | 40199775001 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Total Organic Carbon | mg/L | 5.7 | 6 | 6 | 11.4 | 11.2 | 96 | 93 | 80-120 | 2 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987657 1987658

| Parameter | Units | 40199775002 Result | MS | MSD | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|-------------|-------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | | Spike Conc. | Spike Conc. | | | | | | | | |
| Total Organic Carbon | mg/L | 4.3 | 3 | 3 | 7.3 | 7.3 | 100 | 101 | 80-120 | 0 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|--------------------|----------|-------------------|------------------|
| 40199775001 | MW-1R | EPA 8015B Modified | 341854 | | |
| 40199775002 | OP-14 | EPA 8015B Modified | 341854 | | |
| 40199775003 | MW-2 | EPA 8015B Modified | 341854 | | |
| 40199775004 | MW-4 | EPA 8015B Modified | 341854 | | |
| 40199775005 | MW-42 | EPA 8015B Modified | 341854 | | |
| 40199775006 | OP-9 | EPA 8015B Modified | 341854 | | |
| 40199775007 | MW-38 | EPA 8015B Modified | 341854 | | |
| 40199775009 | DUP | EPA 8015B Modified | 341854 | | |
| 40199775010 | MW-40 | EPA 8015B Modified | 341854 | | |
| 40199775011 | MW-16 | EPA 8015B Modified | 341854 | | |
| 40199775012 | OP-2 | EPA 8015B Modified | 341854 | | |
| 40199775015 | MW-13R | EPA 8015B Modified | 341854 | | |
| 40199775017 | MW-41 | EPA 8015B Modified | 341854 | | |
| 40199775018 | OP-3 | EPA 8015B Modified | 341854 | | |
| 40199775001 | MW-1R | EPA 6010 | 341922 | | |
| 40199775002 | OP-14 | EPA 6010 | 341922 | | |
| 40199775003 | MW-2 | EPA 6010 | 341922 | | |
| 40199775004 | MW-4 | EPA 6010 | 341922 | | |
| 40199775005 | MW-42 | EPA 6010 | 341922 | | |
| 40199775006 | OP-9 | EPA 6010 | 341922 | | |
| 40199775007 | MW-38 | EPA 6010 | 341922 | | |
| 40199775009 | DUP | EPA 6010 | 341922 | | |
| 40199775010 | MW-40 | EPA 6010 | 341922 | | |
| 40199775011 | MW-16 | EPA 6010 | 341922 | | |
| 40199775012 | OP-2 | EPA 6010 | 341922 | | |
| 40199775015 | MW-13R | EPA 6010 | 341922 | | |
| 40199775017 | MW-41 | EPA 6010 | 341922 | | |
| 40199775018 | OP-3 | EPA 6010 | 341922 | | |
| 40199775001 | MW-1R | EPA 8260 | 341729 | | |
| 40199775002 | OP-14 | EPA 8260 | 341729 | | |
| 40199775003 | MW-2 | EPA 8260 | 341729 | | |
| 40199775004 | MW-4 | EPA 8260 | 341729 | | |
| 40199775005 | MW-42 | EPA 8260 | 341729 | | |
| 40199775006 | OP-9 | EPA 8260 | 341729 | | |
| 40199775007 | MW-38 | EPA 8260 | 341729 | | |
| 40199775008 | MW-29 | EPA 8260 | 341729 | | |
| 40199775009 | DUP | EPA 8260 | 341729 | | |
| 40199775010 | MW-40 | EPA 8260 | 341729 | | |
| 40199775011 | MW-16 | EPA 8260 | 341729 | | |
| 40199775012 | OP-2 | EPA 8260 | 341729 | | |
| 40199775013 | MW-25 | EPA 8260 | 341729 | | |
| 40199775014 | MW-27 | EPA 8260 | 341729 | | |
| 40199775015 | MW-13R | EPA 8260 | 341729 | | |
| 40199775016 | MW-12 | EPA 8260 | 341729 | | |
| 40199775017 | MW-41 | EPA 8260 | 341729 | | |
| 40199775018 | OP-3 | EPA 8260 | 341729 | | |
| 40199775019 | TRIP | EPA 8260 | 341729 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40199775001 | MW-1R | EPA 300.0 | 342231 | | |
| 40199775002 | OP-14 | EPA 300.0 | 342231 | | |
| 40199775003 | MW-2 | EPA 300.0 | 342231 | | |
| 40199775004 | MW-4 | EPA 300.0 | 342231 | | |
| 40199775005 | MW-42 | EPA 300.0 | 342231 | | |
| 40199775006 | OP-9 | EPA 300.0 | 342231 | | |
| 40199775007 | MW-38 | EPA 300.0 | 342231 | | |
| 40199775009 | DUP | EPA 300.0 | 342231 | | |
| 40199775010 | MW-40 | EPA 300.0 | 342231 | | |
| 40199775011 | MW-16 | EPA 300.0 | 342231 | | |
| 40199775012 | OP-2 | EPA 300.0 | 342231 | | |
| 40199775015 | MW-13R | EPA 300.0 | 342231 | | |
| 40199775017 | MW-41 | EPA 300.0 | 342231 | | |
| 40199775018 | OP-3 | EPA 300.0 | 342231 | | |
| 40199775001 | MW-1R | EPA 310.2 | 342297 | | |
| 40199775002 | OP-14 | EPA 310.2 | 342297 | | |
| 40199775003 | MW-2 | EPA 310.2 | 342297 | | |
| 40199775004 | MW-4 | EPA 310.2 | 342297 | | |
| 40199775005 | MW-42 | EPA 310.2 | 342297 | | |
| 40199775006 | OP-9 | EPA 310.2 | 342297 | | |
| 40199775007 | MW-38 | EPA 310.2 | 342297 | | |
| 40199775009 | DUP | EPA 310.2 | 342297 | | |
| 40199775010 | MW-40 | EPA 310.2 | 342297 | | |
| 40199775011 | MW-16 | EPA 310.2 | 342297 | | |
| 40199775012 | OP-2 | EPA 310.2 | 342297 | | |
| 40199775015 | MW-13R | EPA 310.2 | 342297 | | |
| 40199775017 | MW-41 | EPA 310.2 | 342297 | | |
| 40199775018 | OP-3 | EPA 310.2 | 342297 | | |
| 40199775001 | MW-1R | SM 5310C | 342282 | | |
| 40199775002 | OP-14 | SM 5310C | 342282 | | |
| 40199775003 | MW-2 | SM 5310C | 342282 | | |
| 40199775004 | MW-4 | SM 5310C | 342282 | | |
| 40199775005 | MW-42 | SM 5310C | 342282 | | |
| 40199775009 | DUP | SM 5310C | 342282 | | |
| 40199775010 | MW-40 | SM 5310C | 342282 | | |
| 40199775011 | MW-16 | SM 5310C | 342282 | | |
| 40199775012 | OP-2 | SM 5310C | 342282 | | |
| 40199775015 | MW-13R | SM 5310C | 342282 | | |
| 40199775017 | MW-41 | SM 5310C | 342282 | | |
| 40199775018 | OP-3 | SM 5310C | 342282 | | |

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(Please Print Clearly)

Company Name: GZA GeoEnvironmental
 Branch/Location: Waukesha
 Project Contact: Kevin Hedinger
 Phone: 262-424-1761
 Project Number: 20.01555935.01
 Project Name: Trent Tube
 Project State: WI
 Sampled By (Print): *AAA/SSS*
 Sampled By (Sign): *AAA/SSS*
 PO #: _____
 Regulatory Program: _____



CHAIN OF CUSTODY

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

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

COC No. *40199775*

| PAGE LAB # | CLIENT FIELD ID | REGULATORY PROGRAM | DATE | COLLECTION TIME | MATRIX | Analyses Requested | | | | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|------------|-----------------|--------------------|----------|-----------------|--------|--------------------|-------------|---|---|-----------------|-----------------------------|-----------|
| | | | | | | Y/N | Pick Letter | Y | N | | | |
| 001 | MWD-1R | | 11-20-19 | 10:14 | bwD | X | | X | | | | |
| 002 | OR-14 | | 11-20-19 | 11:11 | bwD | X | | X | | | | |
| 003 | MWD-2 | | 11-20-19 | 10:21 | bwD | X | | X | | | | |
| 004 | MWD-1 | | 11-20-19 | 11:08 | bwD | X | | X | | | | |
| 005 | MWD-42 | | 11-20-19 | 12:03 | bwD | X | | X | | | | |
| 006 | OR-9 | | 11-20-19 | 14:03 | bwD | X | | X | | | | |
| 007 | MWD-38 | | 11-20-19 | 12:38 | bwD | X | | X | | | | |
| 008 | MWD-29 | | 11-20-19 | 8:23 | bwD | X | | X | | | | |
| 009 | DSD | | 11-20-19 | N/A | bwD | X | | X | | | | |
| 010 | MWD-4D | | 11-20-19 | 13:24 | bwD | X | | X | | | | |
| 011 | MWD-16 | | 11-20-19 | 12:37 | bwD | X | | X | | | | |
| 012 | OR-2 | | 11-20-19 | 14:08 | bwD | X | | X | | | | |
| 013 | MWD-25 | | 11-20-19 | 8:55 | bwD | X | | X | | | | |

Data Package Options
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample

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

Transmit Prelim Rush Results by (complete what you want):
 Date Needed: _____
 Rush TAT subject to approval/surcharge)
 Relinquished By: *Mary Farnie* Date/Time: *11-21-19 10:17*
 Relinquished By: *ES LOSTAKIS* Date/Time: *11/22/19 0855*

Received By: *Mary Farnie* Date/Time: *11/21/19 10:07*
 Received By: *Brandon Wattle* Date/Time: *11-22-19 0855*

PAGE Project No. *40199775*
 Receipt Temp = *45* °C
 Sample Receipt pH *OK* Adjusted
 Cooler Custody Seal Present / Not Present
 Intact Not Intact

(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Waukesha

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20.0155935.01

Project Name: Tent Tube

Project State: WI

Sampled By (Print): AAAH/SSB

Sampled By (Sign):

PO #: Regulatory Program:

Data Package Options (billable)

- EPA Level III
EPA Level IV
MS/MSD
On your sample (billable)
NOT needed on your sample

PAGE LAB # CLIENT FIELD ID

Matrix Codes: W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Matrix: VOC, Dissolved Mn and Fe, Methane, Ethane, Ethene, Sulfate, Alkalinity, TOC

Analyses Requested: VOC, Dissolved Mn and Fe, Methane, Ethane, Ethene, Sulfate, Alkalinity, TOC

DATE: 11-20-19, 11-20-19, 11-20-19, 11-20-19, 11-20-19

TIME: 9:27, 13:33, 11:54, 14:50, 11:20

MATRIX: bwd, bwd, bwd, bwd, bwd

Reinquired By: [Signature]

Date/Time: 11-20-19 10:07

Received By: [Signature]

Date/Time: 11-22-19 10:07

Reinquired By: [Signature]

Date/Time: 11-22-19 0855

Received By: [Signature]

Date/Time: 11-22-19 0855

Reinquired By: [Signature]

Date/Time: 11-22-19 0855

Special pricing and release of liability



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)*

Table with columns: Y/N, Pick Letter, VOC, Dissolved Mn and Fe, Methane, Ethane, Ethene, Sulfate, Alkalinity, TOC

Quote #:

Mail To Contact: Kevin Hedinger

Mail To Company: GZA GeoEnvironmental

Mail To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Contact: Kevin Hedinger

Invoice To Company: GZA GeoEnvironmental

Invoice To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only) Profile #

PAGE Project No.

Receipt Temp = 4.5 °C

Sample Receipt pH OK Adjusted

Cooler Custody Seal Present (Not Present) Intact (Not Intact)

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

COC No. 40199775

Sample Preservation Receipt Form

Client Name: GZF Geo Environmental Project # 401997MS

All containers needing preservation have been checked and noted below: Yes No N/A
 Lab Lot# of pH paper: 1053581 Lab Sid #ID of preservation (if pH adjusted):

Initial when completed: RL Date/Time: 11-22-10


Pace Analytical Services, LLC
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Page 60 of 61

| Pace Lab # | Glass | | | Plastic | | | Vials | | | Jars | | General | | VOA Vials (>6mm) * | | | | 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 | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≥2 | pH after adjusted | | | | |
| 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): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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: |

3855

| | | |
|---|---|---|
|  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: GZA GeoEnvironmental
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project # _____

WO#: 40199775



Tracking #: _____
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-91 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 4.0 ICorr: 4.5
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 11-22-19
 Initials: BA

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 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 10. <u>Crack on lid sample 003 125 1/1/19</u> |
| Filtered volume received for Dissolved tests | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. <u>BA</u> |
| 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: <input checked="" type="checkbox"/> | | |
| 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: [Signature] **Date:** 11/25/19

December 05, 2019

Kevin Hedinger
GZA
20900 Swenson Drive
Suite 150
Waukesha, WI 53186

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on November 23, 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,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 40199817001 | MW-07R | Water | 11/21/19 09:05 | 11/23/19 08:15 |
| 40199817002 | MW-37R | Water | 11/21/19 10:37 | 11/23/19 08:15 |
| 40199817003 | MW-17R | Water | 11/21/19 10:33 | 11/23/19 08:15 |
| 40199817004 | MW-11 | Water | 11/21/19 11:19 | 11/23/19 08:15 |
| 40199817005 | MW-19 | Water | 11/21/19 09:15 | 11/23/19 08:15 |
| 40199817006 | MW-39 | Water | 11/21/19 09:58 | 11/23/19 08:15 |
| 40199817007 | MW-15 | Water | 11/21/19 08:30 | 11/23/19 08:15 |
| 40199817008 | MW-18R | Water | 11/21/19 09:58 | 11/23/19 08:15 |
| 40199817009 | MW-20 | Water | 11/21/19 08:36 | 11/23/19 08:15 |
| 40199817010 | DUP-1 | Water | 11/21/19 00:00 | 11/23/19 08:15 |
| 40199817011 | TRIP | Water | 11/21/19 00:00 | 11/23/19 08:15 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------------------|----------|-------------------|------------|
| 40199817001 | MW-07R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199817002 | MW-37R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199817003 | MW-17R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199817004 | MW-11 | EPA 8260 | LAP | 64 | PASI-G |
| 40199817005 | MW-19 | EPA 8260 | LAP | 64 | PASI-G |
| 40199817006 | MW-39 | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199817007 | MW-15 | EPA 8260 | LAP | 64 | PASI-G |
| 40199817008 | MW-18R | EPA 8015B Modified | ALD | 3 | PASI-G |
| | | EPA 6010 | TXW | 2 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| | | EPA 300.0 | HMB | 1 | PASI-G |
| | | EPA 310.2 | DAW | 1 | PASI-G |
| | | SM 5310C | TJJ | 1 | PASI-G |
| 40199817009 | MW-20 | EPA 8260 | LAP | 64 | PASI-G |
| 40199817010 | DUP-1 | EPA 8260 | LAP | 64 | PASI-G |
| 40199817011 | TRIP | EPA 8260 | LAP | 64 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40199817001 | MW-07R | | | | | |
| EPA 8015B Modified | Ethane | 18.5 | ug/L | 5.6 | 11/26/19 11:38 | |
| EPA 8015B Modified | Methane | 479 | ug/L | 14.0 | 11/26/19 12:47 | |
| EPA 6010 | Iron, Dissolved | 13400 | ug/L | 100 | 11/26/19 21:14 | |
| EPA 6010 | Manganese, Dissolved | 610 | ug/L | 5.0 | 11/26/19 21:14 | |
| EPA 8260 | 1,1-Dichloroethane | 1.5 | ug/L | 1.0 | 11/26/19 08:34 | |
| EPA 8260 | Vinyl chloride | 6.7 | ug/L | 1.0 | 11/26/19 08:34 | |
| EPA 8260 | cis-1,2-Dichloroethene | 7.0 | ug/L | 1.0 | 11/26/19 08:34 | |
| EPA 300.0 | Sulfate | 70.0 | mg/L | 10.0 | 12/04/19 16:07 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 667 | mg/L | 47.0 | 12/03/19 12:34 | |
| SM 5310C | Total Organic Carbon | 7.4 | mg/L | 3.0 | 12/04/19 04:12 | |
| 40199817002 | MW-37R | | | | | |
| EPA 8260 | Tetrachloroethene | 0.39J | ug/L | 1.1 | 11/26/19 12:58 | |
| EPA 8260 | Trichloroethene | 1.8 | ug/L | 1.0 | 11/26/19 12:58 | |
| EPA 300.0 | Sulfate | 27.7 | mg/L | 2.0 | 12/04/19 17:17 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 205 | mg/L | 23.5 | 12/03/19 12:34 | |
| SM 5310C | Total Organic Carbon | 1.5 | mg/L | 0.50 | 12/04/19 04:54 | |
| 40199817003 | MW-17R | | | | | |
| EPA 8015B Modified | Ethane | 3.5J | ug/L | 5.0 | 11/26/19 11:51 | |
| EPA 8015B Modified | Methane | 216 | ug/L | 2.8 | 11/26/19 11:51 | |
| EPA 8260 | Trichloroethene | 449 | ug/L | 10.0 | 11/26/19 08:56 | |
| EPA 8260 | Vinyl chloride | 14.0 | ug/L | 10.0 | 11/26/19 08:56 | |
| EPA 8260 | cis-1,2-Dichloroethene | 222 | ug/L | 10.0 | 11/26/19 08:56 | |
| EPA 8260 | trans-1,2-Dichloroethene | 18.3J | ug/L | 36.4 | 11/26/19 08:56 | |
| EPA 300.0 | Sulfate | 161 | mg/L | 20.0 | 12/04/19 17:30 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 138 | mg/L | 23.5 | 12/03/19 12:35 | |
| SM 5310C | Total Organic Carbon | 14.4 | mg/L | 5.0 | 12/04/19 05:15 | |
| 40199817005 | MW-19 | | | | | |
| EPA 8260 | 1,1-Dichloroethane | 0.44J | ug/L | 1.0 | 11/26/19 16:01 | |
| EPA 8260 | Vinyl chloride | 5.1 | ug/L | 1.0 | 11/26/19 16:01 | |
| EPA 8260 | cis-1,2-Dichloroethene | 0.86J | ug/L | 1.0 | 11/26/19 16:01 | |
| 40199817006 | MW-39 | | | | | |
| EPA 8015B Modified | Methane | 14.5 | ug/L | 2.8 | 11/26/19 11:58 | |
| EPA 6010 | Manganese, Dissolved | 62.3 | ug/L | 5.0 | 11/26/19 21:26 | |
| EPA 8260 | 1,1,1-Trichloroethane | 55.6 | ug/L | 10.0 | 11/26/19 09:18 | |
| EPA 8260 | 1,1-Dichloroethane | 17.6 | ug/L | 10.0 | 11/26/19 09:18 | |
| EPA 8260 | 1,1-Dichloroethene | 16.0 | ug/L | 10.0 | 11/26/19 09:18 | |
| EPA 8260 | Trichloroethene | 466 | ug/L | 10.0 | 11/26/19 09:18 | |
| EPA 8260 | cis-1,2-Dichloroethene | 244 | ug/L | 10.0 | 11/26/19 09:18 | |
| EPA 8260 | trans-1,2-Dichloroethene | 40.2 | ug/L | 36.4 | 11/26/19 09:18 | |
| EPA 300.0 | Sulfate | 45.4 | mg/L | 2.0 | 12/04/19 17:43 | |
| EPA 310.2 | Alkalinity, Total as CaCO3 | 270 | mg/L | 47.0 | 12/03/19 12:35 | |
| SM 5310C | Total Organic Carbon | 2.1 | mg/L | 1.0 | 12/04/19 05:36 | |
| 40199817007 | MW-15 | | | | | |
| EPA 8260 | 1,1,1-Trichloroethane | 29.6 | ug/L | 1.0 | 11/26/19 16:23 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--|--------|-------|--------------|----------------|------------|
| 40199817007 | MW-15 | | | | | |
| EPA 8260 | 1,1-Dichloroethane | 17.4 | ug/L | 1.0 | 11/26/19 16:23 | |
| EPA 8260 | Trichloroethene | 1.9 | ug/L | 1.0 | 11/26/19 16:23 | |
| EPA 8260 | cis-1,2-Dichloroethene | 1.6 | ug/L | 1.0 | 11/26/19 16:23 | |
| 40199817008 | MW-18R | | | | | |
| EPA 8015B Modified | Methane | 263 | ug/L | 2.8 | 11/26/19 12:05 | |
| EPA 6010 | Manganese, Dissolved | 742 | ug/L | 5.0 | 11/26/19 21:29 | |
| EPA 8260 | Trichloroethene | 912 | ug/L | 20.0 | 11/26/19 09:40 | |
| EPA 8260 | Vinyl chloride | 38.4 | ug/L | 20.0 | 11/26/19 09:40 | |
| EPA 8260 | cis-1,2-Dichloroethene | 537 | ug/L | 20.0 | 11/26/19 09:40 | |
| EPA 300.0 | Sulfate | 78.4 | mg/L | 10.0 | 12/04/19 17:56 | |
| EPA 310.2 | Alkalinity, Total as CaCO ₃ | 299 | mg/L | 47.0 | 12/03/19 12:36 | |
| SM 5310C | Total Organic Carbon | 1.7 | mg/L | 0.50 | 12/04/19 05:57 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-07R **Lab ID: 40199817001** Collected: 11/21/19 09:05 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethane | 18.5 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:38 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:38 | 74-85-1 | |
| Methane | 479 | ug/L | 14.0 | 3.3 | 5 | | 11/26/19 12:47 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | 13400 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:14 | 7439-89-6 | |
| Manganese, Dissolved | 610 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:14 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:34 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:34 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:34 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 08:34 | 79-00-5 | |
| 1,1-Dichloroethane | 1.5 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:34 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:34 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 08:34 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 08:34 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 08:34 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 08:34 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 08:34 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 08:34 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:34 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:34 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:34 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 08:34 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 08:34 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 08:34 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 08:34 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:34 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 08:34 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 08:34 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 08:34 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 08:34 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 08:34 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 08:34 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 08:34 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 08:34 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 08:34 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:34 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:34 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:34 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 08:34 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 08:34 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 08:34 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 08:34 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 08:34 | 75-71-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-07R **Lab ID: 40199817001** Collected: 11/21/19 09:05 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 08:34 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 08:34 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:34 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 08:34 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 08:34 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 08:34 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 08:34 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 08:34 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 08:34 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 08:34 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:34 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 08:34 | 75-69-4 | |
| Vinyl chloride | 6.7 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 08:34 | 75-01-4 | |
| cis-1,2-Dichloroethene | 7.0 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 08:34 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 08:34 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 08:34 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 08:34 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 08:34 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 08:34 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 08:34 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 08:34 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 08:34 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 08:34 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 08:34 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 11/26/19 08:34 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 1 | | 11/26/19 08:34 | 1868-53-7 | |
| Toluene-d8 (S) | 92 | % | 70-130 | | 1 | | 11/26/19 08:34 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 70.0 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 16:07 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 667 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:34 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 7.4 | mg/L | 3.0 | 0.89 | 6 | | 12/04/19 04:12 | 7440-44-0 | |

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:44 | 74-84-0 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:44 | 74-85-1 | |
| Methane | <0.66 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:44 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:17 | 7439-89-6 | |
| Manganese, Dissolved | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:17 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:58 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:58 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:58 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 12:58 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:58 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:58 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 12:58 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 12:58 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 12:58 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 12:58 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 12:58 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 12:58 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 12:58 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:58 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:58 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 12:58 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 12:58 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 12:58 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 12:58 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 12:58 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 12:58 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 12:58 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 12:58 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 12:58 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 12:58 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 12:58 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 12:58 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 12:58 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 12:58 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 12:58 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:58 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 12:58 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 12:58 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 12:58 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 12:58 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 12:58 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 12:58 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 12:58 | 108-20-3 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 12:58 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 12:58 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 12:58 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 12:58 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 12:58 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 12:58 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 12:58 | 100-42-5 | |
| Tetrachloroethene | 0.39J | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 12:58 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 12:58 | 108-88-3 | |
| Trichloroethene | 1.8 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 12:58 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 12:58 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 12:58 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 12:58 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 12:58 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 12:58 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 12:58 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 12:58 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 12:58 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 12:58 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 12:58 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 12:58 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 12:58 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 12:58 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 86 | % | 70-130 | | 1 | | 11/26/19 12:58 | 460-00-4 | |
| Dibromofluoromethane (S) | 98 | % | 70-130 | | 1 | | 11/26/19 12:58 | 1868-53-7 | |
| Toluene-d8 (S) | 92 | % | 70-130 | | 1 | | 11/26/19 12:58 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 27.7 | mg/L | 2.0 | 0.44 | 1 | | 12/04/19 17:17 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 205 | mg/L | 23.5 | 7.0 | 1 | | 12/03/19 12:34 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 1.5 | mg/L | 0.50 | 0.15 | 1 | | 12/04/19 04:54 | 7440-44-0 | |

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|-----|----|----------|----------------|---------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:51 | 74-84-0 | |
| Ethene | 3.5J | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:51 | 74-85-1 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|-----------------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Methane | 216 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:51 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:24 | 7439-89-6 | |
| Manganese, Dissolved | <1.1 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:24 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <2.7 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 08:56 | 630-20-6 | |
| 1,1,1-Trichloroethane | <2.4 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 08:56 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 08:56 | 79-34-5 | |
| 1,1,2-Trichloroethane | <5.5 | ug/L | 50.0 | 5.5 | 10 | | 11/26/19 08:56 | 79-00-5 | |
| 1,1-Dichloroethane | <2.7 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 08:56 | 75-34-3 | |
| 1,1-Dichloroethene | <2.4 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 08:56 | 75-35-4 | |
| 1,1-Dichloropropene | <5.4 | ug/L | 18.0 | 5.4 | 10 | | 11/26/19 08:56 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <6.3 | ug/L | 50.0 | 6.3 | 10 | | 11/26/19 08:56 | 87-61-6 | |
| 1,2,3-Trichloropropane | <5.9 | ug/L | 50.0 | 5.9 | 10 | | 11/26/19 08:56 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <9.5 | ug/L | 50.0 | 9.5 | 10 | | 11/26/19 08:56 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <8.4 | ug/L | 28.0 | 8.4 | 10 | | 11/26/19 08:56 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <17.6 | ug/L | 58.8 | 17.6 | 10 | | 11/26/19 08:56 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <8.3 | ug/L | 27.6 | 8.3 | 10 | | 11/26/19 08:56 | 106-93-4 | |
| 1,2-Dichlorobenzene | <7.1 | ug/L | 23.5 | 7.1 | 10 | | 11/26/19 08:56 | 95-50-1 | |
| 1,2-Dichloroethane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 08:56 | 107-06-2 | |
| 1,2-Dichloropropane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 08:56 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <8.7 | ug/L | 29.1 | 8.7 | 10 | | 11/26/19 08:56 | 108-67-8 | |
| 1,3-Dichlorobenzene | <6.3 | ug/L | 20.9 | 6.3 | 10 | | 11/26/19 08:56 | 541-73-1 | |
| 1,3-Dichloropropane | <8.3 | ug/L | 27.5 | 8.3 | 10 | | 11/26/19 08:56 | 142-28-9 | |
| 1,4-Dichlorobenzene | <9.4 | ug/L | 31.5 | 9.4 | 10 | | 11/26/19 08:56 | 106-46-7 | |
| 2,2-Dichloropropane | <22.7 | ug/L | 75.5 | 22.7 | 10 | | 11/26/19 08:56 | 594-20-7 | |
| 2-Chlorotoluene | <9.3 | ug/L | 50.0 | 9.3 | 10 | | 11/26/19 08:56 | 95-49-8 | |
| 4-Chlorotoluene | <7.6 | ug/L | 25.2 | 7.6 | 10 | | 11/26/19 08:56 | 106-43-4 | |
| Benzene | <2.5 | ug/L | 10.0 | 2.5 | 10 | | 11/26/19 08:56 | 71-43-2 | |
| Bromobenzene | <2.4 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 08:56 | 108-86-1 | |
| Bromochloromethane | <3.6 | ug/L | 50.0 | 3.6 | 10 | | 11/26/19 08:56 | 74-97-5 | |
| Bromodichloromethane | <3.6 | ug/L | 12.1 | 3.6 | 10 | | 11/26/19 08:56 | 75-27-4 | |
| Bromoform | <39.7 | ug/L | 132 | 39.7 | 10 | | 11/26/19 08:56 | 75-25-2 | |
| Bromomethane | <9.7 | ug/L | 50.0 | 9.7 | 10 | | 11/26/19 08:56 | 74-83-9 | |
| Carbon tetrachloride | <1.7 | ug/L | 10.0 | 1.7 | 10 | | 11/26/19 08:56 | 56-23-5 | |
| Chlorobenzene | <7.1 | ug/L | 23.7 | 7.1 | 10 | | 11/26/19 08:56 | 108-90-7 | |
| Chloroethane | <13.4 | ug/L | 50.0 | 13.4 | 10 | | 11/26/19 08:56 | 75-00-3 | |
| Chloroform | <12.7 | ug/L | 50.0 | 12.7 | 10 | | 11/26/19 08:56 | 67-66-3 | |
| Chloromethane | <21.9 | ug/L | 73.0 | 21.9 | 10 | | 11/26/19 08:56 | 74-87-3 | |
| Dibromochloromethane | <26.0 | ug/L | 86.7 | 26.0 | 10 | | 11/26/19 08:56 | 124-48-1 | |
| Dibromomethane | <9.4 | ug/L | 31.2 | 9.4 | 10 | | 11/26/19 08:56 | 74-95-3 | |
| Dichlorodifluoromethane | <5.0 | ug/L | 50.0 | 5.0 | 10 | | 11/26/19 08:56 | 75-71-8 | |
| Diisopropyl ether | <18.9 | ug/L | 62.9 | 18.9 | 10 | | 11/26/19 08:56 | 108-20-3 | |
| Ethylbenzene | <2.2 | ug/L | 10.0 | 2.2 | 10 | | 11/26/19 08:56 | 100-41-4 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Hexachloro-1,3-butadiene | <11.8 | ug/L | 50.0 | 11.8 | 10 | | 11/26/19 08:56 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <3.9 | ug/L | 50.0 | 3.9 | 10 | | 11/26/19 08:56 | 98-82-8 | |
| Methyl-tert-butyl ether | <12.5 | ug/L | 41.5 | 12.5 | 10 | | 11/26/19 08:56 | 1634-04-4 | |
| Methylene Chloride | <5.8 | ug/L | 50.0 | 5.8 | 10 | | 11/26/19 08:56 | 75-09-2 | |
| Naphthalene | <11.8 | ug/L | 50.0 | 11.8 | 10 | | 11/26/19 08:56 | 91-20-3 | |
| Styrene | <4.7 | ug/L | 15.5 | 4.7 | 10 | | 11/26/19 08:56 | 100-42-5 | |
| Tetrachloroethene | <3.3 | ug/L | 10.9 | 3.3 | 10 | | 11/26/19 08:56 | 127-18-4 | |
| Toluene | <1.7 | ug/L | 50.0 | 1.7 | 10 | | 11/26/19 08:56 | 108-88-3 | |
| Trichloroethene | 449 | ug/L | 10.0 | 2.6 | 10 | | 11/26/19 08:56 | 79-01-6 | |
| Trichlorofluoromethane | <2.1 | ug/L | 10.0 | 2.1 | 10 | | 11/26/19 08:56 | 75-69-4 | |
| Vinyl chloride | 14.0 | ug/L | 10.0 | 1.7 | 10 | | 11/26/19 08:56 | 75-01-4 | |
| cis-1,2-Dichloroethene | 222 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 08:56 | 156-59-2 | |
| cis-1,3-Dichloropropene | <36.3 | ug/L | 121 | 36.3 | 10 | | 11/26/19 08:56 | 10061-01-5 | |
| m&p-Xylene | <4.7 | ug/L | 20.0 | 4.7 | 10 | | 11/26/19 08:56 | 179601-23-1 | |
| n-Butylbenzene | <7.1 | ug/L | 23.6 | 7.1 | 10 | | 11/26/19 08:56 | 104-51-8 | |
| n-Propylbenzene | <8.1 | ug/L | 50.0 | 8.1 | 10 | | 11/26/19 08:56 | 103-65-1 | |
| o-Xylene | <2.6 | ug/L | 10.0 | 2.6 | 10 | | 11/26/19 08:56 | 95-47-6 | |
| p-Isopropyltoluene | <8.0 | ug/L | 26.7 | 8.0 | 10 | | 11/26/19 08:56 | 99-87-6 | |
| sec-Butylbenzene | <8.5 | ug/L | 50.0 | 8.5 | 10 | | 11/26/19 08:56 | 135-98-8 | |
| tert-Butylbenzene | <3.0 | ug/L | 10.1 | 3.0 | 10 | | 11/26/19 08:56 | 98-06-6 | |
| trans-1,2-Dichloroethene | 18.3J | ug/L | 36.4 | 10.9 | 10 | | 11/26/19 08:56 | 156-60-5 | |
| trans-1,3-Dichloropropene | <43.7 | ug/L | 146 | 43.7 | 10 | | 11/26/19 08:56 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 84 | % | 70-130 | | 10 | | 11/26/19 08:56 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 10 | | 11/26/19 08:56 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | % | 70-130 | | 10 | | 11/26/19 08:56 | 2037-26-5 | |
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 161 | mg/L | 20.0 | 4.4 | 10 | | 12/04/19 17:30 | 14808-79-8 | |
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 138 | mg/L | 23.5 | 7.0 | 1 | | 12/03/19 12:35 | | |
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 14.4 | mg/L | 5.0 | 1.5 | 10 | | 12/04/19 05:15 | 7440-44-0 | |

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:40 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:40 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:40 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 15:40 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:40 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:40 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 15:40 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 15:40 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 15:40 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 15:40 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 15:40 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 15:40 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:40 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:40 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:40 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:40 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 15:40 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 15:40 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:40 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:40 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 15:40 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 15:40 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 15:40 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 15:40 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:40 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 15:40 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 15:40 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 15:40 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 15:40 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:40 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:40 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:40 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:40 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 15:40 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 15:40 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:40 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 15:40 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 15:40 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 15:40 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:40 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 15:40 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 15:40 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 15:40 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:40 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 15:40 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 15:40 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 15:40 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:40 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 15:40 | 75-69-4 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:40 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:40 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 15:40 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 15:40 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:40 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 15:40 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:40 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 15:40 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 15:40 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 15:40 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 15:40 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 15:40 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 84 | % | 70-130 | | 1 | | 11/26/19 15:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | | 1 | | 11/26/19 15:40 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | 70-130 | | 1 | | 11/26/19 15:40 | 2037-26-5 | |

Sample: MW-19 **Lab ID: 40199817005** Collected: 11/21/19 09:15 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:01 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:01 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:01 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:01 | 79-00-5 | |
| 1,1-Dichloroethane | 0.44J | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:01 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:01 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:01 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:01 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:01 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:01 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:01 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:01 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:01 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:01 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:01 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:01 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:01 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:01 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:01 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:01 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:01 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:01 | 95-49-8 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-19 **Lab ID: 40199817005** Collected: 11/21/19 09:15 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:01 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:01 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:01 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:01 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:01 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:01 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:01 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:01 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:01 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:01 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:01 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:01 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:01 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:01 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:01 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:01 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:01 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:01 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:01 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:01 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:01 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:01 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:01 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:01 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:01 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:01 | 75-69-4 | |
| Vinyl chloride | 5.1 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:01 | 75-01-4 | |
| cis-1,2-Dichloroethene | 0.86J | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:01 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:01 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:01 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:01 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:01 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:01 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:01 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:01 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:01 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:01 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:01 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 11/26/19 16:01 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 1 | | 11/26/19 16:01 | 1868-53-7 | |
| Toluene-d8 (S) | 92 | % | 70-130 | | 1 | | 11/26/19 16:01 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-39 **Lab ID: 40199817006** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|------------------------------------|---------|---------------------------------------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV | | Analytical Method: EPA 8015B Modified | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 11:58 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 11:58 | 74-85-1 | |
| Methane | 14.5 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 11:58 | 74-82-8 | |
| 6010 MET ICP, Dissolved | | Analytical Method: EPA 6010 | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:26 | 7439-89-6 | |
| Manganese, Dissolved | 62.3 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:26 | 7439-96-5 | |
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <2.7 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 09:18 | 630-20-6 | |
| 1,1,1-Trichloroethane | 55.6 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 09:18 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 09:18 | 79-34-5 | |
| 1,1,2-Trichloroethane | <5.5 | ug/L | 50.0 | 5.5 | 10 | | 11/26/19 09:18 | 79-00-5 | |
| 1,1-Dichloroethane | 17.6 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 09:18 | 75-34-3 | |
| 1,1-Dichloroethene | 16.0 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 09:18 | 75-35-4 | |
| 1,1-Dichloropropene | <5.4 | ug/L | 18.0 | 5.4 | 10 | | 11/26/19 09:18 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <6.3 | ug/L | 50.0 | 6.3 | 10 | | 11/26/19 09:18 | 87-61-6 | |
| 1,2,3-Trichloropropane | <5.9 | ug/L | 50.0 | 5.9 | 10 | | 11/26/19 09:18 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <9.5 | ug/L | 50.0 | 9.5 | 10 | | 11/26/19 09:18 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <8.4 | ug/L | 28.0 | 8.4 | 10 | | 11/26/19 09:18 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <17.6 | ug/L | 58.8 | 17.6 | 10 | | 11/26/19 09:18 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <8.3 | ug/L | 27.6 | 8.3 | 10 | | 11/26/19 09:18 | 106-93-4 | |
| 1,2-Dichlorobenzene | <7.1 | ug/L | 23.5 | 7.1 | 10 | | 11/26/19 09:18 | 95-50-1 | |
| 1,2-Dichloroethane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 09:18 | 107-06-2 | |
| 1,2-Dichloropropane | <2.8 | ug/L | 10.0 | 2.8 | 10 | | 11/26/19 09:18 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <8.7 | ug/L | 29.1 | 8.7 | 10 | | 11/26/19 09:18 | 108-67-8 | |
| 1,3-Dichlorobenzene | <6.3 | ug/L | 20.9 | 6.3 | 10 | | 11/26/19 09:18 | 541-73-1 | |
| 1,3-Dichloropropane | <8.3 | ug/L | 27.5 | 8.3 | 10 | | 11/26/19 09:18 | 142-28-9 | |
| 1,4-Dichlorobenzene | <9.4 | ug/L | 31.5 | 9.4 | 10 | | 11/26/19 09:18 | 106-46-7 | |
| 2,2-Dichloropropane | <22.7 | ug/L | 75.5 | 22.7 | 10 | | 11/26/19 09:18 | 594-20-7 | |
| 2-Chlorotoluene | <9.3 | ug/L | 50.0 | 9.3 | 10 | | 11/26/19 09:18 | 95-49-8 | |
| 4-Chlorotoluene | <7.6 | ug/L | 25.2 | 7.6 | 10 | | 11/26/19 09:18 | 106-43-4 | |
| Benzene | <2.5 | ug/L | 10.0 | 2.5 | 10 | | 11/26/19 09:18 | 71-43-2 | |
| Bromobenzene | <2.4 | ug/L | 10.0 | 2.4 | 10 | | 11/26/19 09:18 | 108-86-1 | |
| Bromochloromethane | <3.6 | ug/L | 50.0 | 3.6 | 10 | | 11/26/19 09:18 | 74-97-5 | |
| Bromodichloromethane | <3.6 | ug/L | 12.1 | 3.6 | 10 | | 11/26/19 09:18 | 75-27-4 | |
| Bromoform | <39.7 | ug/L | 132 | 39.7 | 10 | | 11/26/19 09:18 | 75-25-2 | |
| Bromomethane | <9.7 | ug/L | 50.0 | 9.7 | 10 | | 11/26/19 09:18 | 74-83-9 | |
| Carbon tetrachloride | <1.7 | ug/L | 10.0 | 1.7 | 10 | | 11/26/19 09:18 | 56-23-5 | |
| Chlorobenzene | <7.1 | ug/L | 23.7 | 7.1 | 10 | | 11/26/19 09:18 | 108-90-7 | |
| Chloroethane | <13.4 | ug/L | 50.0 | 13.4 | 10 | | 11/26/19 09:18 | 75-00-3 | |
| Chloroform | <12.7 | ug/L | 50.0 | 12.7 | 10 | | 11/26/19 09:18 | 67-66-3 | |
| Chloromethane | <21.9 | ug/L | 73.0 | 21.9 | 10 | | 11/26/19 09:18 | 74-87-3 | |
| Dibromochloromethane | <26.0 | ug/L | 86.7 | 26.0 | 10 | | 11/26/19 09:18 | 124-48-1 | |
| Dibromomethane | <9.4 | ug/L | 31.2 | 9.4 | 10 | | 11/26/19 09:18 | 74-95-3 | |
| Dichlorodifluoromethane | <5.0 | ug/L | 50.0 | 5.0 | 10 | | 11/26/19 09:18 | 75-71-8 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-39 Lab ID: 40199817006 Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Diisopropyl ether | <18.9 | ug/L | 62.9 | 18.9 | 10 | | 11/26/19 09:18 | 108-20-3 | |
| Ethylbenzene | <2.2 | ug/L | 10.0 | 2.2 | 10 | | 11/26/19 09:18 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <11.8 | ug/L | 50.0 | 11.8 | 10 | | 11/26/19 09:18 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <3.9 | ug/L | 50.0 | 3.9 | 10 | | 11/26/19 09:18 | 98-82-8 | |
| Methyl-tert-butyl ether | <12.5 | ug/L | 41.5 | 12.5 | 10 | | 11/26/19 09:18 | 1634-04-4 | |
| Methylene Chloride | <5.8 | ug/L | 50.0 | 5.8 | 10 | | 11/26/19 09:18 | 75-09-2 | |
| Naphthalene | <11.8 | ug/L | 50.0 | 11.8 | 10 | | 11/26/19 09:18 | 91-20-3 | |
| Styrene | <4.7 | ug/L | 15.5 | 4.7 | 10 | | 11/26/19 09:18 | 100-42-5 | |
| Tetrachloroethene | <3.3 | ug/L | 10.9 | 3.3 | 10 | | 11/26/19 09:18 | 127-18-4 | |
| Toluene | <1.7 | ug/L | 50.0 | 1.7 | 10 | | 11/26/19 09:18 | 108-88-3 | |
| Trichloroethene | 466 | ug/L | 10.0 | 2.6 | 10 | | 11/26/19 09:18 | 79-01-6 | |
| Trichlorofluoromethane | <2.1 | ug/L | 10.0 | 2.1 | 10 | | 11/26/19 09:18 | 75-69-4 | |
| Vinyl chloride | <1.7 | ug/L | 10.0 | 1.7 | 10 | | 11/26/19 09:18 | 75-01-4 | |
| cis-1,2-Dichloroethene | 244 | ug/L | 10.0 | 2.7 | 10 | | 11/26/19 09:18 | 156-59-2 | |
| cis-1,3-Dichloropropene | <36.3 | ug/L | 121 | 36.3 | 10 | | 11/26/19 09:18 | 10061-01-5 | |
| m&p-Xylene | <4.7 | ug/L | 20.0 | 4.7 | 10 | | 11/26/19 09:18 | 179601-23-1 | |
| n-Butylbenzene | <7.1 | ug/L | 23.6 | 7.1 | 10 | | 11/26/19 09:18 | 104-51-8 | |
| n-Propylbenzene | <8.1 | ug/L | 50.0 | 8.1 | 10 | | 11/26/19 09:18 | 103-65-1 | |
| o-Xylene | <2.6 | ug/L | 10.0 | 2.6 | 10 | | 11/26/19 09:18 | 95-47-6 | |
| p-Isopropyltoluene | <8.0 | ug/L | 26.7 | 8.0 | 10 | | 11/26/19 09:18 | 99-87-6 | |
| sec-Butylbenzene | <8.5 | ug/L | 50.0 | 8.5 | 10 | | 11/26/19 09:18 | 135-98-8 | |
| tert-Butylbenzene | <3.0 | ug/L | 10.1 | 3.0 | 10 | | 11/26/19 09:18 | 98-06-6 | |
| trans-1,2-Dichloroethene | 40.2 | ug/L | 36.4 | 10.9 | 10 | | 11/26/19 09:18 | 156-60-5 | |
| trans-1,3-Dichloropropene | <43.7 | ug/L | 146 | 43.7 | 10 | | 11/26/19 09:18 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 10 | | 11/26/19 09:18 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 10 | | 11/26/19 09:18 | 1868-53-7 | |
| Toluene-d8 (S) | 94 | % | 70-130 | | 10 | | 11/26/19 09:18 | 2037-26-5 | |

| | | | | | | | | | |
|---|------|------|-----|------|---|--|----------------|------------|--|
| 300.0 IC Anions Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 45.4 | mg/L | 2.0 | 0.44 | 1 | | 12/04/19 17:43 | 14808-79-8 | |

| | | | | | | | | | |
|--|-----|------|------|------|---|--|----------------|--|--|
| 310.2 Alkalinity Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 270 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:35 | | |

| | | | | | | | | | |
|--|-----|------|-----|------|---|--|----------------|-----------|--|
| 5310C TOC Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 2.1 | mg/L | 1.0 | 0.30 | 2 | | 12/04/19 05:36 | 7440-44-0 | |

Sample: MW-15 Lab ID: 40199817007 Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:23 | 630-20-6 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-15 **Lab ID: 40199817007** Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,1,1-Trichloroethane | 29.6 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:23 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:23 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:23 | 79-00-5 | |
| 1,1-Dichloroethane | 17.4 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:23 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:23 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:23 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:23 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:23 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:23 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:23 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:23 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:23 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:23 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:23 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:23 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:23 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:23 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:23 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:23 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:23 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:23 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:23 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:23 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:23 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:23 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:23 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:23 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:23 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:23 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:23 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:23 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:23 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:23 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:23 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:23 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:23 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:23 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:23 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:23 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:23 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:23 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:23 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:23 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:23 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:23 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:23 | 108-88-3 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-15 **Lab ID: 40199817007** Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Trichloroethene | 1.9 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:23 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:23 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:23 | 75-01-4 | |
| cis-1,2-Dichloroethene | 1.6 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:23 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:23 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:23 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:23 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:23 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:23 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:23 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:23 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:23 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:23 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:23 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 84 | % | 70-130 | | 1 | | 11/26/19 16:23 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 11/26/19 16:23 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 11/26/19 16:23 | 2037-26-5 | |

Sample: MW-18R **Lab ID: 40199817008** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------|----------------|-----------|------|
| Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified | | | | | | | | | |
| Ethane | <1.2 | ug/L | 5.6 | 1.2 | 1 | | 11/26/19 12:05 | 74-84-0 | |
| Ethene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 12:05 | 74-85-1 | |
| Methane | 263 | ug/L | 2.8 | 0.66 | 1 | | 11/26/19 12:05 | 74-82-8 | |
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Iron, Dissolved | <29.6 | ug/L | 100 | 29.6 | 1 | | 11/26/19 21:29 | 7439-89-6 | |
| Manganese, Dissolved | 742 | ug/L | 5.0 | 1.1 | 1 | | 11/26/19 21:29 | 7439-96-5 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <5.4 | ug/L | 20.0 | 5.4 | 20 | | 11/26/19 09:40 | 630-20-6 | |
| 1,1,1-Trichloroethane | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 09:40 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <5.5 | ug/L | 20.0 | 5.5 | 20 | | 11/26/19 09:40 | 79-34-5 | |
| 1,1,2-Trichloroethane | <11.0 | ug/L | 100 | 11.0 | 20 | | 11/26/19 09:40 | 79-00-5 | |
| 1,1-Dichloroethane | <5.5 | ug/L | 20.0 | 5.5 | 20 | | 11/26/19 09:40 | 75-34-3 | |
| 1,1-Dichloroethene | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 09:40 | 75-35-4 | |
| 1,1-Dichloropropene | <10.8 | ug/L | 36.0 | 10.8 | 20 | | 11/26/19 09:40 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <12.5 | ug/L | 100 | 12.5 | 20 | | 11/26/19 09:40 | 87-61-6 | |
| 1,2,3-Trichloropropane | <11.8 | ug/L | 100 | 11.8 | 20 | | 11/26/19 09:40 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <19.0 | ug/L | 100 | 19.0 | 20 | | 11/26/19 09:40 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <16.8 | ug/L | 56.0 | 16.8 | 20 | | 11/26/19 09:40 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-18R **Lab ID: 40199817008** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | <35.3 | ug/L | 118 | 35.3 | 20 | | 11/26/19 09:40 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <16.6 | ug/L | 55.3 | 16.6 | 20 | | 11/26/19 09:40 | 106-93-4 | |
| 1,2-Dichlorobenzene | <14.1 | ug/L | 47.0 | 14.1 | 20 | | 11/26/19 09:40 | 95-50-1 | |
| 1,2-Dichloroethane | <5.6 | ug/L | 20.0 | 5.6 | 20 | | 11/26/19 09:40 | 107-06-2 | |
| 1,2-Dichloropropane | <5.7 | ug/L | 20.0 | 5.7 | 20 | | 11/26/19 09:40 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <17.5 | ug/L | 58.2 | 17.5 | 20 | | 11/26/19 09:40 | 108-67-8 | |
| 1,3-Dichlorobenzene | <12.6 | ug/L | 41.9 | 12.6 | 20 | | 11/26/19 09:40 | 541-73-1 | |
| 1,3-Dichloropropane | <16.5 | ug/L | 55.1 | 16.5 | 20 | | 11/26/19 09:40 | 142-28-9 | |
| 1,4-Dichlorobenzene | <18.9 | ug/L | 62.9 | 18.9 | 20 | | 11/26/19 09:40 | 106-46-7 | |
| 2,2-Dichloropropane | <45.3 | ug/L | 151 | 45.3 | 20 | | 11/26/19 09:40 | 594-20-7 | |
| 2-Chlorotoluene | <18.5 | ug/L | 100 | 18.5 | 20 | | 11/26/19 09:40 | 95-49-8 | |
| 4-Chlorotoluene | <15.1 | ug/L | 50.4 | 15.1 | 20 | | 11/26/19 09:40 | 106-43-4 | |
| Benzene | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 11/26/19 09:40 | 71-43-2 | |
| Bromobenzene | <4.8 | ug/L | 20.0 | 4.8 | 20 | | 11/26/19 09:40 | 108-86-1 | |
| Bromochloromethane | <7.2 | ug/L | 100 | 7.2 | 20 | | 11/26/19 09:40 | 74-97-5 | |
| Bromodichloromethane | <7.3 | ug/L | 24.2 | 7.3 | 20 | | 11/26/19 09:40 | 75-27-4 | |
| Bromoform | <79.4 | ug/L | 265 | 79.4 | 20 | | 11/26/19 09:40 | 75-25-2 | |
| Bromomethane | <19.4 | ug/L | 100 | 19.4 | 20 | | 11/26/19 09:40 | 74-83-9 | |
| Carbon tetrachloride | <3.3 | ug/L | 20.0 | 3.3 | 20 | | 11/26/19 09:40 | 56-23-5 | |
| Chlorobenzene | <14.2 | ug/L | 47.4 | 14.2 | 20 | | 11/26/19 09:40 | 108-90-7 | |
| Chloroethane | <26.8 | ug/L | 100 | 26.8 | 20 | | 11/26/19 09:40 | 75-00-3 | |
| Chloroform | <25.5 | ug/L | 100 | 25.5 | 20 | | 11/26/19 09:40 | 67-66-3 | |
| Chloromethane | <43.8 | ug/L | 146 | 43.8 | 20 | | 11/26/19 09:40 | 74-87-3 | |
| Dibromochloromethane | <52.0 | ug/L | 173 | 52.0 | 20 | | 11/26/19 09:40 | 124-48-1 | |
| Dibromomethane | <18.7 | ug/L | 62.5 | 18.7 | 20 | | 11/26/19 09:40 | 74-95-3 | |
| Dichlorodifluoromethane | <10 | ug/L | 100 | 10 | 20 | | 11/26/19 09:40 | 75-71-8 | |
| Diisopropyl ether | <37.8 | ug/L | 126 | 37.8 | 20 | | 11/26/19 09:40 | 108-20-3 | |
| Ethylbenzene | <4.4 | ug/L | 20.0 | 4.4 | 20 | | 11/26/19 09:40 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <23.6 | ug/L | 100 | 23.6 | 20 | | 11/26/19 09:40 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <7.9 | ug/L | 100 | 7.9 | 20 | | 11/26/19 09:40 | 98-82-8 | |
| Methyl-tert-butyl ether | <24.9 | ug/L | 83.1 | 24.9 | 20 | | 11/26/19 09:40 | 1634-04-4 | |
| Methylene Chloride | <11.6 | ug/L | 100 | 11.6 | 20 | | 11/26/19 09:40 | 75-09-2 | |
| Naphthalene | <23.5 | ug/L | 100 | 23.5 | 20 | | 11/26/19 09:40 | 91-20-3 | |
| Styrene | <9.3 | ug/L | 31.0 | 9.3 | 20 | | 11/26/19 09:40 | 100-42-5 | |
| Tetrachloroethene | <6.5 | ug/L | 21.8 | 6.5 | 20 | | 11/26/19 09:40 | 127-18-4 | |
| Toluene | <3.4 | ug/L | 100 | 3.4 | 20 | | 11/26/19 09:40 | 108-88-3 | |
| Trichloroethene | 912 | ug/L | 20.0 | 5.1 | 20 | | 11/26/19 09:40 | 79-01-6 | |
| Trichlorofluoromethane | <4.3 | ug/L | 20.0 | 4.3 | 20 | | 11/26/19 09:40 | 75-69-4 | |
| Vinyl chloride | 38.4 | ug/L | 20.0 | 3.5 | 20 | | 11/26/19 09:40 | 75-01-4 | |
| cis-1,2-Dichloroethene | 537 | ug/L | 20.0 | 5.4 | 20 | | 11/26/19 09:40 | 156-59-2 | |
| cis-1,3-Dichloropropene | <72.6 | ug/L | 242 | 72.6 | 20 | | 11/26/19 09:40 | 10061-01-5 | |
| m&p-Xylene | <9.3 | ug/L | 40.0 | 9.3 | 20 | | 11/26/19 09:40 | 179601-23-1 | |
| n-Butylbenzene | <14.2 | ug/L | 47.2 | 14.2 | 20 | | 11/26/19 09:40 | 104-51-8 | |
| n-Propylbenzene | <16.2 | ug/L | 100 | 16.2 | 20 | | 11/26/19 09:40 | 103-65-1 | |
| o-Xylene | <5.2 | ug/L | 20.0 | 5.2 | 20 | | 11/26/19 09:40 | 95-47-6 | |
| p-Isopropyltoluene | <16.0 | ug/L | 53.3 | 16.0 | 20 | | 11/26/19 09:40 | 99-87-6 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|------------|------|
| Sample: MW-18R Lab ID: 40199817008 Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| sec-Butylbenzene | <17.0 | ug/L | 100 | 17.0 | 20 | | 11/26/19 09:40 | 135-98-8 | |
| tert-Butylbenzene | <6.1 | ug/L | 20.3 | 6.1 | 20 | | 11/26/19 09:40 | 98-06-6 | |
| trans-1,2-Dichloroethene | <21.8 | ug/L | 72.7 | 21.8 | 20 | | 11/26/19 09:40 | 156-60-5 | |
| trans-1,3-Dichloropropene | <87.4 | ug/L | 291 | 87.4 | 20 | | 11/26/19 09:40 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 20 | | 11/26/19 09:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 20 | | 11/26/19 09:40 | 1868-53-7 | |
| Toluene-d8 (S) | 93 | % | 70-130 | | 20 | | 11/26/19 09:40 | 2037-26-5 | |
| Analytical Method: EPA 300.0 | | | | | | | | | |
| Sulfate | 78.4 | mg/L | 10.0 | 2.2 | 5 | | 12/04/19 17:56 | 14808-79-8 | |
| Analytical Method: EPA 310.2 | | | | | | | | | |
| Alkalinity, Total as CaCO3 | 299 | mg/L | 47.0 | 14.1 | 2 | | 12/03/19 12:36 | | |
| Analytical Method: SM 5310C | | | | | | | | | |
| Total Organic Carbon | 1.7 | mg/L | 0.50 | 0.15 | 1 | | 12/04/19 05:57 | 7440-44-0 | |

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|-----|------|----|----------|----------------|----------|------|
| Sample: MW-20 Lab ID: 40199817009 Collected: 11/21/19 08:36 Received: 11/23/19 08:15 Matrix: Water | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:45 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:45 | 71-55-6 | |
| 1,1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:45 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 16:45 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:45 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:45 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 16:45 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 16:45 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 16:45 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 16:45 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 16:45 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 16:45 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:45 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:45 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:45 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 16:45 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 16:45 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 16:45 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 16:45 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:45 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 16:45 | 594-20-7 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-20 **Lab ID: 40199817009** Collected: 11/21/19 08:36 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 16:45 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 16:45 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 16:45 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 16:45 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 16:45 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 16:45 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 16:45 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 16:45 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:45 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:45 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:45 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 16:45 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 16:45 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 16:45 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 16:45 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 16:45 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 16:45 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 16:45 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:45 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 16:45 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 16:45 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 16:45 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 16:45 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 16:45 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 16:45 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 16:45 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:45 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 16:45 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 16:45 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 16:45 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 16:45 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 16:45 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 16:45 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 16:45 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 16:45 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 16:45 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 16:45 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 16:45 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 16:45 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 16:45 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 83 | % | 70-130 | | 1 | | 11/26/19 16:45 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 11/26/19 16:45 | 1868-53-7 | |
| Toluene-d8 (S) | 93 | % | 70-130 | | 1 | | 11/26/19 16:45 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: DUP-1 **Lab ID: 40199817010** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------|----------------|-----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 17:07 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 17:07 | 71-55-6 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 17:07 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 17:07 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 17:07 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 17:07 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 17:07 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 17:07 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 17:07 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 17:07 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 17:07 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 17:07 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 17:07 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 17:07 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 17:07 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 17:07 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 17:07 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 17:07 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 17:07 | 142-28-9 | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 17:07 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 17:07 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 17:07 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 17:07 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 17:07 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 17:07 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 17:07 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 17:07 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 17:07 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 17:07 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 17:07 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 17:07 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 17:07 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 17:07 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 17:07 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 17:07 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 17:07 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 17:07 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 17:07 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 17:07 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 17:07 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 17:07 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 17:07 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 17:07 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 17:07 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 17:07 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 17:07 | 127-18-4 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: DUP-1 **Lab ID: 40199817010** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 17:07 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 17:07 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 17:07 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 17:07 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 17:07 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 17:07 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 17:07 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 17:07 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 17:07 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 17:07 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 17:07 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 17:07 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 17:07 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 17:07 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 17:07 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 86 | % | 70-130 | | 1 | | 11/26/19 17:07 | 460-00-4 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | | 1 | | 11/26/19 17:07 | 1868-53-7 | |
| Toluene-d8 (S) | 93 | % | 70-130 | | 1 | | 11/26/19 17:07 | 2037-26-5 | |

Sample: TRIP **Lab ID: 40199817011** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|----------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:18 | 630-20-6 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:18 | 71-55-6 | |
| 1,1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:18 | 79-34-5 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 11/26/19 15:18 | 79-00-5 | |
| 1,1-Dichloroethane | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:18 | 75-34-3 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:18 | 75-35-4 | |
| 1,1-Dichloropropene | <0.54 | ug/L | 1.8 | 0.54 | 1 | | 11/26/19 15:18 | 563-58-6 | |
| 1,2,3-Trichlorobenzene | <0.63 | ug/L | 5.0 | 0.63 | 1 | | 11/26/19 15:18 | 87-61-6 | |
| 1,2,3-Trichloropropane | <0.59 | ug/L | 5.0 | 0.59 | 1 | | 11/26/19 15:18 | 96-18-4 | |
| 1,2,4-Trichlorobenzene | <0.95 | ug/L | 5.0 | 0.95 | 1 | | 11/26/19 15:18 | 120-82-1 | |
| 1,2,4-Trimethylbenzene | <0.84 | ug/L | 2.8 | 0.84 | 1 | | 11/26/19 15:18 | 95-63-6 | |
| 1,2-Dibromo-3-chloropropane | <1.8 | ug/L | 5.9 | 1.8 | 1 | | 11/26/19 15:18 | 96-12-8 | |
| 1,2-Dibromoethane (EDB) | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:18 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:18 | 95-50-1 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:18 | 107-06-2 | |
| 1,2-Dichloropropane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 11/26/19 15:18 | 78-87-5 | |
| 1,3,5-Trimethylbenzene | <0.87 | ug/L | 2.9 | 0.87 | 1 | | 11/26/19 15:18 | 108-67-8 | |
| 1,3-Dichlorobenzene | <0.63 | ug/L | 2.1 | 0.63 | 1 | | 11/26/19 15:18 | 541-73-1 | |
| 1,3-Dichloropropane | <0.83 | ug/L | 2.8 | 0.83 | 1 | | 11/26/19 15:18 | 142-28-9 | |

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: TRIP **Lab ID:** 40199817011 Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| 1,4-Dichlorobenzene | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:18 | 106-46-7 | |
| 2,2-Dichloropropane | <2.3 | ug/L | 7.6 | 2.3 | 1 | | 11/26/19 15:18 | 594-20-7 | |
| 2-Chlorotoluene | <0.93 | ug/L | 5.0 | 0.93 | 1 | | 11/26/19 15:18 | 95-49-8 | |
| 4-Chlorotoluene | <0.76 | ug/L | 2.5 | 0.76 | 1 | | 11/26/19 15:18 | 106-43-4 | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 11/26/19 15:18 | 71-43-2 | |
| Bromobenzene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 11/26/19 15:18 | 108-86-1 | |
| Bromochloromethane | <0.36 | ug/L | 5.0 | 0.36 | 1 | | 11/26/19 15:18 | 74-97-5 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 11/26/19 15:18 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 11/26/19 15:18 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 11/26/19 15:18 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:18 | 56-23-5 | |
| Chlorobenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:18 | 108-90-7 | |
| Chloroethane | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:18 | 75-00-3 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 11/26/19 15:18 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 11/26/19 15:18 | 74-87-3 | |
| Dibromochloromethane | <2.6 | ug/L | 8.7 | 2.6 | 1 | | 11/26/19 15:18 | 124-48-1 | |
| Dibromomethane | <0.94 | ug/L | 3.1 | 0.94 | 1 | | 11/26/19 15:18 | 74-95-3 | |
| Dichlorodifluoromethane | <0.50 | ug/L | 5.0 | 0.50 | 1 | | 11/26/19 15:18 | 75-71-8 | |
| Diisopropyl ether | <1.9 | ug/L | 6.3 | 1.9 | 1 | | 11/26/19 15:18 | 108-20-3 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 11/26/19 15:18 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:18 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.39 | ug/L | 5.0 | 0.39 | 1 | | 11/26/19 15:18 | 98-82-8 | |
| Methyl-tert-butyl ether | <1.2 | ug/L | 4.2 | 1.2 | 1 | | 11/26/19 15:18 | 1634-04-4 | |
| Methylene Chloride | <0.58 | ug/L | 5.0 | 0.58 | 1 | | 11/26/19 15:18 | 75-09-2 | |
| Naphthalene | <1.2 | ug/L | 5.0 | 1.2 | 1 | | 11/26/19 15:18 | 91-20-3 | |
| Styrene | <0.47 | ug/L | 1.6 | 0.47 | 1 | | 11/26/19 15:18 | 100-42-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 11/26/19 15:18 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 11/26/19 15:18 | 108-88-3 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:18 | 79-01-6 | |
| Trichlorofluoromethane | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 11/26/19 15:18 | 75-69-4 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 11/26/19 15:18 | 75-01-4 | |
| cis-1,2-Dichloroethene | <0.27 | ug/L | 1.0 | 0.27 | 1 | | 11/26/19 15:18 | 156-59-2 | |
| cis-1,3-Dichloropropene | <3.6 | ug/L | 12.1 | 3.6 | 1 | | 11/26/19 15:18 | 10061-01-5 | |
| m&p-Xylene | <0.47 | ug/L | 2.0 | 0.47 | 1 | | 11/26/19 15:18 | 179601-23-1 | |
| n-Butylbenzene | <0.71 | ug/L | 2.4 | 0.71 | 1 | | 11/26/19 15:18 | 104-51-8 | |
| n-Propylbenzene | <0.81 | ug/L | 5.0 | 0.81 | 1 | | 11/26/19 15:18 | 103-65-1 | |
| o-Xylene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 11/26/19 15:18 | 95-47-6 | |
| p-Isopropyltoluene | <0.80 | ug/L | 2.7 | 0.80 | 1 | | 11/26/19 15:18 | 99-87-6 | |
| sec-Butylbenzene | <0.85 | ug/L | 5.0 | 0.85 | 1 | | 11/26/19 15:18 | 135-98-8 | |
| tert-Butylbenzene | <0.30 | ug/L | 1.0 | 0.30 | 1 | | 11/26/19 15:18 | 98-06-6 | |
| trans-1,2-Dichloroethene | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 11/26/19 15:18 | 156-60-5 | |
| trans-1,3-Dichloropropene | <4.4 | ug/L | 14.6 | 4.4 | 1 | | 11/26/19 15:18 | 10061-02-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 87 | % | 70-130 | | 1 | | 11/26/19 15:18 | 460-00-4 | |
| Dibromofluoromethane (S) | 94 | % | 70-130 | | 1 | | 11/26/19 15:18 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | 70-130 | | 1 | | 11/26/19 15:18 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

QC Batch: 341854 Analysis Method: EPA 8015B Modified
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
 Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1985615 Matrix: Water
 Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Ethane | ug/L | <1.2 | 5.6 | 11/26/19 08:24 | |
| Ethene | ug/L | <1.2 | 5.0 | 11/26/19 08:24 | |
| Methane | ug/L | <0.66 | 2.8 | 11/26/19 08:24 | |

LABORATORY CONTROL SAMPLE & LCSD: 1985616

1985617

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Ethane | ug/L | 53.6 | 54.7 | 54.7 | 102 | 102 | 80-120 | 0 | 20 | |
| Ethene | ug/L | 50 | 50.8 | 50.7 | 102 | 101 | 80-120 | 0 | 20 | |
| Methane | ug/L | 28.6 | 27.9 | 27.9 | 98 | 98 | 80-120 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985903

1985904

| Parameter | Units | 40199775005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Ethane | ug/L | <1.2 | 53.6 | 53.6 | 52.1 | 49.3 | 97 | 92 | 80-120 | 6 | 20 | |
| Ethene | ug/L | <1.2 | 50 | 50 | 47.9 | 45.3 | 96 | 91 | 80-120 | 6 | 20 | |
| Methane | ug/L | <0.66 | 28.6 | 28.6 | 26.2 | 25.0 | 92 | 88 | 77-122 | 5 | 20 | |

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

QC Batch: 341922 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1985825 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Iron, Dissolved | ug/L | <29.6 | 100 | 11/26/19 20:26 | |
| Manganese, Dissolved | ug/L | <1.1 | 5.0 | 11/26/19 20:26 | |

LABORATORY CONTROL SAMPLE: 1985826

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Iron, Dissolved | ug/L | 5000 | 4790 | 96 | 80-120 | |
| Manganese, Dissolved | ug/L | 500 | 482 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985827 1985828

| Parameter | Units | 40199775001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Iron, Dissolved | ug/L | <29.6 | 5000 | 5000 | 4640 | 4610 | 93 | 92 | 75-125 | 1 | 20 | |
| Manganese, Dissolved | ug/L | 79.6 | 500 | 500 | 552 | 552 | 94 | 95 | 75-125 | 0 | 20 | |

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 341741 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

METHOD BLANK: 1985210 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.27 | 1.0 | 11/26/19 06:23 | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 11/26/19 06:23 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 11/26/19 06:23 | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 5.0 | 11/26/19 06:23 | |
| 1,1-Dichloroethane | ug/L | <0.27 | 1.0 | 11/26/19 06:23 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 11/26/19 06:23 | |
| 1,1-Dichloropropene | ug/L | <0.54 | 1.8 | 11/26/19 06:23 | |
| 1,2,3-Trichlorobenzene | ug/L | <0.63 | 5.0 | 11/26/19 06:23 | |
| 1,2,3-Trichloropropane | ug/L | <0.59 | 5.0 | 11/26/19 06:23 | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 5.0 | 11/26/19 06:23 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.84 | 2.8 | 11/26/19 06:23 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 5.9 | 11/26/19 06:23 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 2.8 | 11/26/19 06:23 | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:23 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 11/26/19 06:23 | |
| 1,2-Dichloropropane | ug/L | <0.28 | 1.0 | 11/26/19 06:23 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.87 | 2.9 | 11/26/19 06:23 | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 2.1 | 11/26/19 06:23 | |
| 1,3-Dichloropropane | ug/L | <0.83 | 2.8 | 11/26/19 06:23 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 3.1 | 11/26/19 06:23 | |
| 2,2-Dichloropropane | ug/L | <2.3 | 7.6 | 11/26/19 06:23 | |
| 2-Chlorotoluene | ug/L | <0.93 | 5.0 | 11/26/19 06:23 | |
| 4-Chlorotoluene | ug/L | <0.76 | 2.5 | 11/26/19 06:23 | |
| Benzene | ug/L | <0.25 | 1.0 | 11/26/19 06:23 | |
| Bromobenzene | ug/L | <0.24 | 1.0 | 11/26/19 06:23 | |
| Bromochloromethane | ug/L | <0.36 | 5.0 | 11/26/19 06:23 | |
| Bromodichloromethane | ug/L | <0.36 | 1.2 | 11/26/19 06:23 | |
| Bromoform | ug/L | <4.0 | 13.2 | 11/26/19 06:23 | |
| Bromomethane | ug/L | <0.97 | 5.0 | 11/26/19 06:23 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 11/26/19 06:23 | |
| Chlorobenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:23 | |
| Chloroethane | ug/L | <1.3 | 5.0 | 11/26/19 06:23 | |
| Chloroform | ug/L | <1.3 | 5.0 | 11/26/19 06:23 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 11/26/19 06:23 | |
| cis-1,2-Dichloroethene | ug/L | <0.27 | 1.0 | 11/26/19 06:23 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 12.1 | 11/26/19 06:23 | |
| Dibromochloromethane | ug/L | <2.6 | 8.7 | 11/26/19 06:23 | |
| Dibromomethane | ug/L | <0.94 | 3.1 | 11/26/19 06:23 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 5.0 | 11/26/19 06:23 | |
| Diisopropyl ether | ug/L | <1.9 | 6.3 | 11/26/19 06:23 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

METHOD BLANK: 1985210

Matrix: Water

Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene | ug/L | <0.22 | 1.0 | 11/26/19 06:23 | |
| Hexachloro-1,3-butadiene | ug/L | <1.2 | 5.0 | 11/26/19 06:23 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 5.0 | 11/26/19 06:23 | |
| m&p-Xylene | ug/L | <0.47 | 2.0 | 11/26/19 06:23 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 4.2 | 11/26/19 06:23 | |
| Methylene Chloride | ug/L | <0.58 | 5.0 | 11/26/19 06:23 | |
| n-Butylbenzene | ug/L | <0.71 | 2.4 | 11/26/19 06:23 | |
| n-Propylbenzene | ug/L | <0.81 | 5.0 | 11/26/19 06:23 | |
| Naphthalene | ug/L | <1.2 | 5.0 | 11/26/19 06:23 | |
| o-Xylene | ug/L | <0.26 | 1.0 | 11/26/19 06:23 | |
| p-Isopropyltoluene | ug/L | <0.80 | 2.7 | 11/26/19 06:23 | |
| sec-Butylbenzene | ug/L | <0.85 | 5.0 | 11/26/19 06:23 | |
| Styrene | ug/L | <0.47 | 1.6 | 11/26/19 06:23 | |
| tert-Butylbenzene | ug/L | <0.30 | 1.0 | 11/26/19 06:23 | |
| Tetrachloroethene | ug/L | <0.33 | 1.1 | 11/26/19 06:23 | |
| Toluene | ug/L | <0.17 | 5.0 | 11/26/19 06:23 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 3.6 | 11/26/19 06:23 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 14.6 | 11/26/19 06:23 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 11/26/19 06:23 | |
| Trichlorofluoromethane | ug/L | <0.21 | 1.0 | 11/26/19 06:23 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 11/26/19 06:23 | |
| 4-Bromofluorobenzene (S) | % | 86 | 70-130 | 11/26/19 06:23 | |
| Dibromofluoromethane (S) | % | 96 | 70-130 | 11/26/19 06:23 | |
| Toluene-d8 (S) | % | 96 | 70-130 | 11/26/19 06:23 | |

LABORATORY CONTROL SAMPLE: 1985211

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 51.0 | 102 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 48.5 | 97 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.3 | 97 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 41.8 | 84 | 73-150 | |
| 1,1-Dichloroethene | ug/L | 50 | 46.0 | 92 | 73-138 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 49.6 | 99 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 42.2 | 84 | 64-129 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 54.8 | 110 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 51.8 | 104 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 41.9 | 84 | 75-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 44.4 | 89 | 73-135 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 51.5 | 103 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 52.7 | 105 | 70-130 | |
| Benzene | ug/L | 50 | 48.0 | 96 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 44.6 | 89 | 70-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

LABORATORY CONTROL SAMPLE: 1985211

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromoform | ug/L | 50 | 56.7 | 113 | 68-129 | |
| Bromomethane | ug/L | 50 | 27.7 | 55 | 18-159 | |
| Carbon tetrachloride | ug/L | 50 | 49.7 | 99 | 70-130 | |
| Chlorobenzene | ug/L | 50 | 53.0 | 106 | 70-130 | |
| Chloroethane | ug/L | 50 | 32.2 | 64 | 53-147 | |
| Chloroform | ug/L | 50 | 47.7 | 95 | 74-136 | |
| Chloromethane | ug/L | 50 | 22.6 | 45 | 29-115 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 48.2 | 96 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 47.2 | 94 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 52.5 | 105 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 30.0 | 60 | 10-130 | |
| Ethylbenzene | ug/L | 50 | 51.8 | 104 | 80-124 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 56.5 | 113 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 113 | 113 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 38.4 | 77 | 54-137 | |
| Methylene Chloride | ug/L | 50 | 41.0 | 82 | 73-138 | |
| o-Xylene | ug/L | 50 | 56.4 | 113 | 70-130 | |
| Styrene | ug/L | 50 | 57.3 | 115 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 47.7 | 95 | 70-130 | |
| Toluene | ug/L | 50 | 50.7 | 101 | 80-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 49.5 | 99 | 73-145 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 47.8 | 96 | 70-130 | |
| Trichloroethene | ug/L | 50 | 50.2 | 100 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 43.5 | 87 | 76-147 | |
| Vinyl chloride | ug/L | 50 | 34.2 | 68 | 51-120 | |
| 4-Bromofluorobenzene (S) | % | | | 94 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 90 | 70-130 | |
| Toluene-d8 (S) | % | | | 94 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985711 1985712

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|-------------|-------------|-----------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 40199817001 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 50 | 50 | 51.3 | 50.2 | 103 | 100 | 70-130 | 2 | 20 | | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 50 | 50 | 53.2 | 55.9 | 106 | 112 | 70-130 | 5 | 20 | | |
| 1,1,2-Trichloroethane | ug/L | <0.55 | 50 | 50 | 49.2 | 48.7 | 98 | 97 | 70-137 | 1 | 20 | | |
| 1,1-Dichloroethane | ug/L | 1.5 | 50 | 50 | 41.6 | 41.5 | 80 | 80 | 73-153 | 0 | 20 | | |
| 1,1-Dichloroethene | ug/L | <0.24 | 50 | 50 | 44.4 | 43.8 | 89 | 88 | 73-138 | 1 | 20 | | |
| 1,2,4-Trichlorobenzene | ug/L | <0.95 | 50 | 50 | 48.7 | 50.4 | 97 | 101 | 70-130 | 3 | 20 | | |
| 1,2-Dibromo-3-chloropropane | ug/L | <1.8 | 50 | 50 | 46.1 | 46.5 | 92 | 93 | 58-129 | 1 | 20 | | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.83 | 50 | 50 | 54.7 | 54.5 | 109 | 109 | 70-130 | 0 | 20 | | |
| 1,2-Dichlorobenzene | ug/L | <0.71 | 50 | 50 | 53.1 | 55.3 | 106 | 111 | 70-130 | 4 | 20 | | |
| 1,2-Dichloroethane | ug/L | <0.28 | 50 | 50 | 41.7 | 42.2 | 83 | 84 | 75-140 | 1 | 20 | | |
| 1,2-Dichloropropane | ug/L | <0.28 | 50 | 50 | 45.9 | 44.0 | 92 | 88 | 71-138 | 4 | 20 | | |

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

| Parameter | Units | 1985711 | | 1985712 | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|--------------|---------------|-------------|--------------|-----------------|------------|------|
| | | 40199817001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | |
| 1,3-Dichlorobenzene | ug/L | <0.63 | 50 | 50 | 52.1 | 53.9 | 104 | 108 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.94 | 50 | 50 | 52.1 | 54.3 | 104 | 109 | 70-130 | 4 | 20 | |
| Benzene | ug/L | <0.25 | 50 | 50 | 48.8 | 47.6 | 98 | 95 | 70-130 | 2 | 20 | |
| Bromodichloromethane | ug/L | <0.36 | 50 | 50 | 45.7 | 45.7 | 91 | 91 | 70-130 | 0 | 20 | |
| Bromoform | ug/L | <4.0 | 50 | 50 | 57.1 | 56.5 | 114 | 113 | 68-129 | 1 | 20 | |
| Bromomethane | ug/L | <0.97 | 50 | 50 | 28.3 | 28.8 | 57 | 58 | 15-170 | 2 | 20 | |
| Carbon tetrachloride | ug/L | <0.17 | 50 | 50 | 49.8 | 48.1 | 100 | 96 | 70-130 | 4 | 20 | |
| Chlorobenzene | ug/L | <0.71 | 50 | 50 | 54.9 | 53.1 | 110 | 106 | 70-130 | 3 | 20 | |
| Chloroethane | ug/L | <1.3 | 50 | 50 | 32.3 | 31.5 | 65 | 63 | 51-148 | 2 | 20 | |
| Chloroform | ug/L | <1.3 | 50 | 50 | 47.1 | 45.3 | 94 | 91 | 74-136 | 4 | 20 | |
| Chloromethane | ug/L | <2.2 | 50 | 50 | 23.7 | 22.5 | 47 | 45 | 23-115 | 5 | 20 | |
| cis-1,2-Dichloroethene | ug/L | 7.0 | 50 | 50 | 55.9 | 53.6 | 98 | 93 | 70-131 | 4 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <3.6 | 50 | 50 | 48.2 | 46.7 | 96 | 93 | 70-130 | 3 | 20 | |
| Dibromochloromethane | ug/L | <2.6 | 50 | 50 | 54.0 | 52.7 | 108 | 105 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.50 | 50 | 50 | 30.2 | 27.6 | 60 | 55 | 10-132 | 9 | 20 | |
| Ethylbenzene | ug/L | <0.22 | 50 | 50 | 53.0 | 52.8 | 106 | 106 | 80-125 | 0 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.39 | 50 | 50 | 56.8 | 56.8 | 114 | 114 | 70-130 | 0 | 20 | |
| m&p-Xylene | ug/L | <0.47 | 100 | 100 | 116 | 115 | 116 | 115 | 70-130 | 1 | 20 | |
| Methyl-tert-butyl ether | ug/L | <1.2 | 50 | 50 | 38.6 | 38.0 | 77 | 76 | 51-145 | 2 | 20 | |
| Methylene Chloride | ug/L | <0.58 | 50 | 50 | 42.3 | 41.0 | 85 | 82 | 73-140 | 3 | 20 | |
| o-Xylene | ug/L | <0.26 | 50 | 50 | 58.0 | 56.1 | 116 | 112 | 70-130 | 3 | 20 | |
| Styrene | ug/L | <0.47 | 50 | 50 | 59.6 | 59.3 | 119 | 119 | 70-130 | 0 | 20 | |
| Tetrachloroethene | ug/L | <0.33 | 50 | 50 | 50.6 | 48.5 | 101 | 97 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.17 | 50 | 50 | 51.9 | 51.6 | 104 | 103 | 80-131 | 0 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <1.1 | 50 | 50 | 48.0 | 48.8 | 96 | 98 | 73-148 | 2 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <4.4 | 50 | 50 | 48.3 | 46.9 | 97 | 94 | 70-130 | 3 | 20 | |
| Trichloroethene | ug/L | <0.26 | 50 | 50 | 47.7 | 46.9 | 95 | 94 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | ug/L | <0.21 | 50 | 50 | 42.2 | 41.1 | 84 | 82 | 74-147 | 3 | 20 | |
| Vinyl chloride | ug/L | 6.7 | 50 | 50 | 39.6 | 37.9 | 66 | 62 | 41-129 | 4 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 95 | 95 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 93 | 91 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 95 | 94 | 70-130 | | | |

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

QC Batch: 342231 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987472 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Sulfate | mg/L | <0.44 | 2.0 | 12/04/19 10:37 | |

LABORATORY CONTROL SAMPLE: 1987473

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfate | mg/L | 20 | 20.2 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987474 1987475

| Parameter | Units | 40199545001 | | 40199545001 | | 40199545001 | | 40199545001 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfate | mg/L | 68.2 | 400 | 400 | 479 | 479 | 103 | 103 | 90-110 | 0 | 15 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987476 1987477

| Parameter | Units | 40199817008 | | 40199817008 | | 40199817008 | | 40199817008 | | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|--------------|-----|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | | | | |
| Sulfate | mg/L | 78.4 | 100 | 100 | 180 | 177 | 101 | 98 | 90-110 | 2 | 15 | | |

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: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 342297 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987719 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

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

LABORATORY CONTROL SAMPLE: 1987720

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO ₃ | mg/L | 100 | 101 | 101 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987721 1987722

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|--|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--------|
| | | 40199775011 Result | Spike Conc. | Spike Conc. | Result | | | | | | | Result |
| Alkalinity, Total as CaCO ₃ | mg/L | 431 | 500 | 500 | 906 | 911 | 95 | 96 | 90-110 | 0 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987723 1987724

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual | |
|--|-------|--------------------|-------------|-------------|--------|----------|-----------|--------------|--------|---------|------|--------|
| | | 40199653001 Result | Spike Conc. | Spike Conc. | Result | | | | | | | Result |
| Alkalinity, Total as CaCO ₃ | mg/L | 120 | 500 | 500 | 575 | 617 | 91 | 100 | 90-110 | 7 | 20 | |

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 342283 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987659 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Total Organic Carbon | mg/L | <0.15 | 0.50 | 12/03/19 23:18 | |

LABORATORY CONTROL SAMPLE: 1987660

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Total Organic Carbon | mg/L | 2.5 | 2.4 | 97 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987661 1987662

| Parameter | Units | 1987661 | | 1987662 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 40199766003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Total Organic Carbon | mg/L | 1.9 | 1 | 1 | 2.8 | 2.8 | 97 | 99 | 80-120 | 1 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987663 1987664

| Parameter | Units | 1987663 | | 1987664 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
| | | 40199977005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Total Organic Carbon | mg/L | 0.38J | 1 | 1 | 0.98 | 0.98 | 60 | 60 | 80-120 | 0 | 10 M0 |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|--------------------|----------|-------------------|------------------|
| 40199817001 | MW-07R | EPA 8015B Modified | 341854 | | |
| 40199817002 | MW-37R | EPA 8015B Modified | 341854 | | |
| 40199817003 | MW-17R | EPA 8015B Modified | 341854 | | |
| 40199817006 | MW-39 | EPA 8015B Modified | 341854 | | |
| 40199817008 | MW-18R | EPA 8015B Modified | 341854 | | |
| 40199817001 | MW-07R | EPA 6010 | 341922 | | |
| 40199817002 | MW-37R | EPA 6010 | 341922 | | |
| 40199817003 | MW-17R | EPA 6010 | 341922 | | |
| 40199817006 | MW-39 | EPA 6010 | 341922 | | |
| 40199817008 | MW-18R | EPA 6010 | 341922 | | |
| 40199817001 | MW-07R | EPA 8260 | 341741 | | |
| 40199817002 | MW-37R | EPA 8260 | 341741 | | |
| 40199817003 | MW-17R | EPA 8260 | 341741 | | |
| 40199817004 | MW-11 | EPA 8260 | 341741 | | |
| 40199817005 | MW-19 | EPA 8260 | 341741 | | |
| 40199817006 | MW-39 | EPA 8260 | 341741 | | |
| 40199817007 | MW-15 | EPA 8260 | 341741 | | |
| 40199817008 | MW-18R | EPA 8260 | 341741 | | |
| 40199817009 | MW-20 | EPA 8260 | 341741 | | |
| 40199817010 | DUP-1 | EPA 8260 | 341741 | | |
| 40199817011 | TRIP | EPA 8260 | 341741 | | |
| 40199817001 | MW-07R | EPA 300.0 | 342231 | | |
| 40199817002 | MW-37R | EPA 300.0 | 342231 | | |
| 40199817003 | MW-17R | EPA 300.0 | 342231 | | |
| 40199817006 | MW-39 | EPA 300.0 | 342231 | | |
| 40199817008 | MW-18R | EPA 300.0 | 342231 | | |
| 40199817001 | MW-07R | EPA 310.2 | 342297 | | |
| 40199817002 | MW-37R | EPA 310.2 | 342297 | | |
| 40199817003 | MW-17R | EPA 310.2 | 342297 | | |
| 40199817006 | MW-39 | EPA 310.2 | 342297 | | |
| 40199817008 | MW-18R | EPA 310.2 | 342297 | | |
| 40199817001 | MW-07R | SM 5310C | 342283 | | |
| 40199817002 | MW-37R | SM 5310C | 342283 | | |
| 40199817003 | MW-17R | SM 5310C | 342283 | | |
| 40199817006 | MW-39 | SM 5310C | 342283 | | |
| 40199817008 | MW-18R | SM 5310C | 342283 | | |

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Waukesha

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20 0156935 01

Project Name: Trent Tube

Project State: WI

Sampled By (Print): *Mike Amundson*

Sampled By (Sign): *[Signature]*

PO #:

Regulatory Program:

Data Package Options

(billable)

EPA Level III

EPA Level IV

MS/MSD (billable)

On your sample

NOT needed on your sample

A = Air

B = Biota

C = Charcoal

O = Oil

S = Soil

SI = Sludge

W = Water

DW = Drinking Water

GW = Ground Water

SW = Surface Water

WW = Waste Water

WP = Wipe

Matrix Codes

DATE

TIME

MATRIX

CLIENT FIELD ID

PAGE LAB #

CHAIN OF CUSTODY



www.paceanalytical.com

UPPER MIDWEST REGION
MN: 612-807-1700 WI: 920-489-2436

Page of

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

Quote #: **4019987**
COC No. **4019987**

Mail To Contact: Kevin Hedinger
Mail To Company: GZA GeoEnvironmental
Mail To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Contact: Kevin Hedinger
Invoice To Company: GZA GeoEnvironmental

Invoice To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Phone:

CLIENT COMMENTS (Lab Use Only)

LAB COMMENTS (Lab Use Only)

Profile #

| PAGE LAB # | CLIENT FIELD ID | COLLECTION | | MATRIX | Analyses Requested | | | | | | | | | | | | | | |
|------------|-----------------|------------|-------|--------|--------------------|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | DATE | TIME | | Y/N | Pick Letter | | | | | | | | | | | | | |
| 001 | MW-07R | 11/21/19 | 0905 | GW | VOC | | | | | | | | | | | | | | |
| 002 | MW-37R | | 1037 | GW | | Dissolved Mn and Fe | | | | | | | | | | | | | |
| 003 | MW-17R | | 1033 | GW | | | | | | | | | | | | | | | |
| 004 | MW-11 | | 11:19 | GW | | | | | | | | | | | | | | | |
| 005 | MW-19 | | 0915 | GW | | | | | | | | | | | | | | | |
| 006 | MW-39 | | 0958 | GW | | | | | | | | | | | | | | | |
| 007 | MW-15 | | 0830 | GW | | | | | | | | | | | | | | | |
| 008 | MW-18R | | 0958 | GW | | | | | | | | | | | | | | | |
| 009 | MW-20 | | 0836 | GW | | | | | | | | | | | | | | | |
| 010 | DUP-1 | | | GW | | | | | | | | | | | | | | | |
| | TRIP | | | | | | | | | | | | | | | | | | |

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

Relinquished By: *Mary Farnis* Date/Time: 11-22-19 8:13
Relinquished By: *Mary Farnis* Date/Time: 11/23/19 1326
Relinquished By: *CS 1001585* Date/Time: 11-23-19 0815

Received By: *Mary Farnis* Date/Time: 11/23/19 9:08
Received By: *CS 1001585* Date/Time: 11-23-19 0815

PACE Project No. **4019987**
Receipt Temp = **40** °C
Sample Receipt PH **OK** Adjusted
Cooler Custody Seal Present / Not Present

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Relinquished By: *CS 1001585* Date/Time: 11-23-19 0815

Received By: *CS 1001585* Date/Time: 11-23-19 0815

Cooler Custody Seal Present / Not Intact

Client Name: 674 Environmental

Sample Preservation Receipt Form

Project # 40199877

All containers needing preservation have been checked and noted below.

Lab Lot# of pH paper: 0153581

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

Initial when completed: BP

Date/Time: 11-23-10

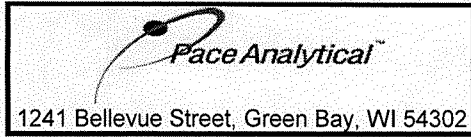
Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

| 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) |
|------------|-------|---------|-------|------|---------|--------------------|-------------|-------------------|-------------|------------|-------------------|--------------|
| 001 | | | | | | | | | | | | 2.5 / 5 / 10 |
| 002 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 003 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 004 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 005 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 006 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 007 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 008 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 009 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 010 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 011 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 012 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 013 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 014 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 015 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 016 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 017 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 018 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 019 | | | | | | | | | | X | | 2.5 / 5 / 10 |
| 020 | | | | | | | | | | X | | 2.5 / 5 / 10 |

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



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: GZA Geoenvironment

WO#: **40199817**

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



Tracking #: _____

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 - 91 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.5 / Corr: 4.0

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

Person examining contents:
Date: 11-23-19
Initials: BL

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 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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 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>133</u> | | |

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: empty vial sample 3 1 vial.

Project Manager Review: [Signature]

Date: 11/25/19