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July 26, 2019

Ms. Kimberly Kuhn
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED

JUL 26 2019

SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION

Subject: **Updated Assessment Report**
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356
EarthCon Project No. 02.20160378.00

Dear Ms. Kuhn:

On behalf of our client Lennox International Inc. (Lennox), EarthCon Consultants, Inc. (EarthCon) is submitting the enclosed Updated Assessment Report for the former Ducane Company Site located in Blackville, Barnwell County, South Carolina (BLWM File # 401356). This report is being submitted in accordance with the requirements of Voluntary Cleanup Contract 16-5848-RP executed on November 17, 2016. Due to the visual nature of Plume Analytics®, we would like to arrange a meeting with you to present the results of the Plume Analytics® study prior to your final review of the enclosed report.

Please free to call us at (770) 973-2100 if you have any questions or if we can provide any additional information.

Respectfully submitted,
EARTHCON CONSULTANTS, INC.

Carol D. Northern
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Cc: Mr. Mark Yohman, Director of Environmental Affairs, Lennox International, Inc.



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UPDATED ASSESSMENT REPORT

**FORMER DUCANE COMPANY SITE
118 WEST MAIN STREET
BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE #401356**

PREPARED FOR:

**LENNOX INTERNATIONAL, INC.
2140 Lake Park Boulevard
Richardson, Texas 75080**

RECEIVED

JUL 26 2019

PREPARED BY:

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**SITE ASSESSMENT,
REMEDICATION &
REVITALIZATION**

EarthCon Project No. 02.20160378.00

July 2019

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1.0 INTRODUCTION

The former Ducane Company Site (the Site) is located at 118 West Main Street in Blackville, South Carolina (Figure 1). The Site consists of approximately 105 acres with about 19 acres developed with a production building and a research and development building. The Site is identified by Barnwell County as consisting of three parcels. One parcel is owned by the Barnwell County Economic Development Corporation. The other two parcels, which include the Site buildings, are owned by NK Newlook, Inc. and were formerly used for production of wooden commercial display cabinets. The Site is currently vacant.

Assessment and remediation activities have been ongoing at the Site since 1999. Constituents detected in Site soils and groundwater included chlorinated volatile organic compounds (CVOCs) and petroleum hydrocarbons. Approximately nine in-situ chemical oxidation/bio-remediation injection events were performed at the Site from July 2003 to April 2008.

On November 17, 2016, Lennox International (Lennox) entered into Voluntary Cleanup Contract 16-5848-RP (the Contract) with the South Carolina Department of Health and Environmental Control (SCDHEC). In accordance with the Contract requirements, comprehensive groundwater sampling of Site wells was conducted from January 30 to February 2, 2017. The groundwater samples were analyzed for volatile organic compounds (VOCs) to update the status of the known plume. Groundwater samples collected from monitoring wells MW-1, MW-3 and background well MW-6R were also analyzed for Target Analyte List (TAL) metals. The results of the comprehensive groundwater sampling event were presented in an Assessment Report dated March 24, 2017. Based on the sampling event results and the subsequent Plume Analytics® study, the Assessment Report proposed conducting semi-annual groundwater sampling for a period of two years (four total sampling events). The Assessment Report also recommended minor repairs to monitoring wells and the installation of one additional monitoring well (MW-16) north of MW-3 to address a data gap identified during the Plume Analytics® study. SCDHEC approved the Assessment report in letters dated May 8 and June 1, 2017.

The four semi-annual groundwater sampling events were conducted at the Site in October 2017, March 2018, October 2018 and March 2019. Groundwater sampling was conducted as described in the March 2017 Assessment Report and the Work Plan for Monitoring Well Installation dated June 29, 2017 and approved by SCDHEC on July 17, 2017. The results for the first three semi-

annual groundwater sampling events were provided to SCDHEC in Semi-Annual Monitoring Reports dated January 30, 2018, July 23, 2018 and January 24, 2019.

This Updated Assessment Report for the Former Ducane Company Site (BLWM File #401356) is being submitted to satisfy the requirements of Voluntary Cleanup Contract 16-5848-RP executed on November 17, 2016. This report presents the results of the fourth semi-annual groundwater sampling event conducted in March 2019 along with the updated Plume Analytics® study.

2.0 GROUNDWATER SAMPLING

2.1 Field Activities

The fourth semi-annual groundwater sampling event was conducted at the Site from March 25 to March 28, 2019. There are 20 groundwater monitoring wells located at the Site. Prior to sampling, depth to groundwater measurements were collected at all accessible wells. The locations of the monitoring wells are shown on Figure 2.

Static water levels were measured on March 25, 2019 from 17 Site groundwater monitoring wells. Permission to access well MW-9, which is located on the adjacent private property, was not granted. Monitoring wells MW-12 and MW-13 could not be located. The monitoring well construction details are presented in Table 1 and the water level measurements are presented in Table 2.

Groundwater samples were collected from 17 of the 20 wells using low flow purge and sampling techniques. Wells MW-9, MW-12 and MW-13 could not be sampled for the reasons stated above. Prior to sampling, each well was purged, and the following field parameters were measured: temperature, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), ferrous iron and turbidity. A description of the field procedures is provided in Appendix A. Field parameters measured during the sampling event are summarized in Table 3 and the field sampling forms are provided in Appendix B.

2.2 Groundwater Flow and Site Lithology

The water level measurements collected on March 25, 2019 (Table 2) were used to develop a potentiometric surface map for the Site, which is included as Figure 3. As shown on Figure 3, groundwater elevation data indicate groundwater flow is to the northwest which is consistent with

groundwater flow measured in previous sampling events. A summary of historical groundwater elevations is provided in Appendix C.

As requested by SCDHEC, lithologic information collected during the previous assessment activities (as shown on well boring logs) was used to develop two cross sections to illustrate the subsurface soils beneath the Site. Figure 4 shows the orientation of the cross sections and Figures 5 and 6 present cross sections A-A' and B-B', respectively. As shown on the cross sections, the Site is underlain by interbedded clayey sand, silty sand, silt, sand, and thin clay layers. The lithology appears to become more sandy with depth.

2.3 Groundwater Analytical Results

Groundwater samples were analyzed for VOCs using EPA Method 8260B and 1,4-dioxane using EPA Method 8260B SIM. The groundwater samples were also analyzed for the monitored natural attenuation (MNA) parameters nitrate, sulfate, sulfide, chloride, alkalinity, total organic carbon (TOC) and dissolved gases (ethane, ethene, methane and propane).

A summary of the VOC analyses is provided in Table 4 and the MNA parameter results are summarized in Table 5. The laboratory analytical reports from Shealy Environmental Services, Inc. (DHEC Certification No. 32010) are provided in Appendix D.

The laboratory data was validated in accordance with the *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2008) and *Contract Laboratory Program National Function Guidelines for Inorganic Data Review* (USEPA, 2010). A copy of the validation summary is provided in Appendix D. A summary of historical groundwater analytical results is provided in Appendix E. The March 2019 data is substantially consistent with historical data.

2.4 IDW Management

Investigation derived waste (IDW) in the form of purge water was generated during groundwater sampling activities. IDW was containerized in 55-gallon drums, properly labeled, and properly disposed offsite.

3.0 GROUNDWATER PLUME ANALYTICS® METHODOLOGY

A Groundwater Plume Analytics® evaluation, including a Ricker Method® Plume Stability Analysis, was conducted for the upper shallow aquifer at the Site using groundwater analytical data provided by Environmental Resources Management (ERM) through 2014 and analytical data collected by EarthCon through March 2019. The Groundwater Plume Analytics® evaluation was conducted for the following constituents of concern (COC):

Chloroethenes

- Tetrachloroethene (PCE);
- Trichloroethene (TCE);
- cis-1,2-Dichloroethene (cis-1,2-DCE);
- trans-1,2-Dichloroethene (trans-1,2-DCE);
- 1,1-Dichloroethene (1,1-DCE);
- Vinyl chloride; and
- Total chloroethenes (molar)

Chloroethanes

- 1,1,2-trichloroethane (1,1,2-TCA)
- 1,1,1-trichloroethane (1,1,1-TCA);
- 1,2-dichloroethane (1,2-DCA);
- 1,1-dichloroethane (1,1-DCA); and
- Total chloroethanes (molar)

Aromatic Hydrocarbons

- Toluene
- Ethylbenzene
- Xylenes

This Groundwater Plume Analytics® evaluation included the following elements:

- Ricker Method® Plume Stability Analysis;
- Total molar trend and molar ratio analysis for chloroethenes and chloroethanes;
- Ricker Method® Spatial Change Indicator™;
- Geochemical MNA isopleths; and
- Groundwater elevation to total chloroethenes correlation evaluation.

The following subsections present the methodologies of the aforementioned elements of the Groundwater Plume Analytics® services. Results of the Groundwater Plume Analytics® evaluation are presented in Section 4.0.

3.1 Ricker Method® Plume Stability Analysis

The Ricker Method® Plume Stability analysis was conducted using procedures described in *A Practical Method to Evaluate Ground Water Contaminant Plume Stability* (Ricker, 2008). The Ricker Method® plume stability analysis compares relative changes in contaminant plume characteristics over time, including area, average concentration, and mass indicator. Note that the term “mass indicator” does not necessarily represent the entire mass in the subsurface but

rather an expression of it based on a fixed assumption of aquifer thickness and porosity to serve as a way of combining plume area and average concentration into one meaningful metric. Calculation of the actual constituent subsurface mass is often a very complicated exercise, and usually more data/inputs are needed than are available from typical delineation and/or remediation well information. Because the plume mass value is not necessarily an measure of actual contaminant mass, the term “mass indicator” is used to describe this plume characteristic. Since the main purpose of the plume stability analysis is to observe relative changes in plume characteristics between sampling events, applying constants (i.e., porosity and aquifer thickness) to the mass calculation has no bearing on the usefulness of the output of the analysis (i.e., relative rate of change in plume mass).

To demonstrate that a plume is decreasing or stable, temporal changes in these calculated values should result in an overall decreasing or stable trend. An increasing trend in any of these values may indicate that the plume is not stable and/or is possibly expanding. Further details concerning trend analysis and determination of a trend conclusion are provided in Section 3.1.3.

3.1.1 Data Assessment and Input File Development

Data used in the Ricker Method[®] plume stability analysis for the constituents listed above for the Upper Shallow aquifer at the Site are included in Appendix F. Groundwater analytical data showed that the monitoring well network and the monitoring frequency at the Site varied over a period from approximately 1999 through March 2019. Sampling events occurred at varying frequencies with annual monitoring in 1999 and 2000, semi-annual monitoring from 2001 through 2010, singular events conducted in 2012 and 2014, and five semi-annual events from February 2017 through March 2019.

Not all wells were sampled during each sampling event, and gaps were filled by either interpolating between those events with available data or by extrapolating values using available data from previous or subsequent events. Other scientific and/or statistical assumptions and adjustments to the data, consistent with the Ricker Method[®], were necessary to complete the analysis. These adjustments are identified in the Ricker Method[®] input data set summarized in Appendix F. The assumptions and adjustments used in the analysis include the following:

- Groundwater monitoring wells, in which 100 percent of the data collected were non-detect for a particular constituent, were assumed always to be non-detect for that constituent for

sampling events where no analytical data were reported. Instances where these values are assigned are indicated by purple shading in Appendix F.

- In most cases non-detect concentrations were evaluated with an assigned concentration value of the stated detection limit. Also, in cases where non-detect results with elevated detection limits were encountered, professional judgment was used to assign a concentration value. For instances in this case with detectable results or non-detect results with a lower detection limit before and after, a value was assigned by interpolation, using the events before and after. For instances with no detectable result or non-detect result with a lower detection limit following the event in question, the last known detectable result was used. In every case the assigned value was based on actual results (detectable value or non-detect at a lower detection limit). Assigned values for non-detect concentrations are noted in Appendix F.
- For sampling events where a particular monitoring well was not sampled, but analytical data prior to and subsequent to are available, the events were assigned values by linearly interpolating between the closest prior and subsequent sampling event. Instances where these values are assigned are indicated by orange shading in Appendix F.

3.1.2 Groundwater Plume Map Development

As part of the Ricker Method[®] plume stability analysis, constituent concentration isopleth maps, or plume maps, were developed for the groundwater monitoring events that occurred September 1999 through March 2019 for the aforementioned constituents in the upper shallow aquifer. The lower or deep aquifer (as designated by the “D” wells) was evaluated on a well by well basis due to the limited number of wells in this aquifer zone. Plume maps for each compound were delineated to the base contour values listed below.

| <u>Constituent</u> | <u>Base Contour (µg/L)</u> |
|--------------------|----------------------------|
| PCE | 5 |
| TCE | 5 |
| 1,1-DCE | 7 |
| cis-1,2-DCE | 5 |
| Trans-1,2-DCE | 5 |
| VC | 2 |

| | |
|--------------|---|
| 1,1,2-TCA | 5 |
| 1,1,1-TCA | 5 |
| 1,2-DCA | 5 |
| 1,1-DCA | 5 |
| Ethylbenzene | 5 |
| Toluene | 5 |
| Xylenes | 5 |

Total chloroethene plume maps were developed by converting the individual contours of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE and vinyl chloride to a molar concentration basis, at or above their respective base contours, and summing them to determine a total molar plume for each event. Total chloroethane plume maps were developed in the same manner using the base contours for 1,1,2-TCA, 1,1,1-TCA, 1,2-DCA and 1,1-DCA.

The area of the constituent-specific plume for each sampling event was calculated using the mathematical features of the contouring software to develop the isopleth maps (i.e., Surfer® 16.3.408, by Golden Software, Inc.) The *kriging* gridding method was used with the default linear variogram to develop the isopleth maps. Surfer® was also used for the computation of the average concentration of each plume as described in Ricker (2008). The plume area and average concentrations were then used to calculate the plume mass indicator for each event. To calculate the plume mass indicator, a porosity of 30% and an aquifer thickness of 10 feet were used based on most well screen lengths installed in the shallow aquifer.

Concentration isopleth maps for each constituent are included in Appendix G. As discussed above, plume stability characteristics were calculated for each of the sampling events included in the analysis. The plume stability characteristics of area, average concentration, and mass indicator, as well as the location of the center of mass, are also provided on each isopleth map.

3.1.3 Statistical Methodology

To evaluate the stability of each constituent plume, temporal trends of the characteristics for each plume were evaluated statistically. The area, average concentration, and mass indicator for each event were plotted to observe changes in each parameter from event to event. The results of the plume stability analyses for each constituent are discussed in Section 4.0.

The temporal trends in the plume characteristic values were statistically evaluated using both linear regression techniques and the Mann-Kendall Test. Linear regression analyses were

conducted using the regression analysis utility in Microsoft Excel, version 1808 (Office 365). The Mann-Kendall Tests were also conducted using procedures described in Gilbert (1987). Linear regression is a parametric statistical procedure that is typically used for analyzing trends in data over time. The Mann-Kendall Test is a non-parametric statistical test; therefore, it is not dependent upon the magnitude of the data, assumptions of distribution, or regularly spaced sampling events.

The Mann-Kendall Test is used to assess whether a data set exhibits an increasing or decreasing trend at a predetermined level of significance (α). The test requires the calculation of a statistic "S" which is the difference between the number of paired differences that are positive, minus the number that are negative. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the data. The null hypothesis, H_0 , for the Mann-Kendall Test is that there is no temporal trend in the data. The alternative hypothesis, H_A , is that of either an upward trend or a downward trend.

If the null hypothesis is not rejected (i.e., no trend could be established statistically), it is expected that the plume is stable. However, a stable plume may not in fact be evident because the statistical test does not consider magnitude or variation in the data. For example, a data set can exhibit a large amount of scatter, yet the test could conclude that the plume is stable. A methodology to counter the problem of scatter in the data involves comparing the calculated S statistic, a calculated confidence factor ($1-\alpha$), and the coefficient of variation for the data set. The S statistic indicates the direction of the trend, the confidence factor shows how strong the trend is, and the coefficient of variation indicates the degree of scatter in the data.

When evaluating trends using linear regression, trends may be obscured by scatter in the data. This condition is typically indicated by a low coefficient of determination (R^2) value. Even with low R^2 values (i.e., high degree of scatter) a confidence interval can still be constructed on the slope of the regression line. As described in AFCEE (2006), assuming the sign (i.e., positive or negative) of the estimated log-slope is correct, a level of confidence that the slope is not zero can be easily determined. The overall trend in the data may thus still be determined, where low levels of confidence correspond to stable or indeterminate trends and higher levels of confidence (e.g., > 90%) indicate the stronger likelihood of a trend.

For the plume stability analysis, significant trends are concluded when the calculated confidence factor is greater than 90%. If the confidence factor is less than 90%, the plume is considered stable or indeterminate (i.e. "no trend").

In many cases the statistical results for both linear regression and the Mann-Kendall Test agree with each other. In the case where two different results are obtained (e.g., one stable trend and one decreasing trend), visual analysis and professional judgment are used to determine the overall trend result.

Trend analysis results for the respective constituent plume area, average concentration, and mass indicator are discussed for each constituent in Section 4.0.

3.1.4 Plume Center of Mass Evaluation

In addition to temporal trend analyses of plume characteristics, the center of plume mass (COM) was calculated. Evaluation of COM movement should be considered in conjunction with the other plume characteristics to assess the overall stability of a plume. For example, a stable or decreasing plume may actually show migration of COM in the downgradient direction in instances when focused remediation occurred in a source area of a site. In this case, this downgradient shift is due to the rapid loss of mass in the upgradient portion of the plume, as opposed to a gradual migration resulting from advective transport.

The plume COM is depicted on each constituent plume map included in Appendix G. For total chloroethenes and total chloroethanes, the COM data is plotted on a site map, with each COM location (representing a discrete sampling event) color coded according to event date, to visually assess spatial changes in COM location through time. Additionally, each COM location is represented by a vector that indicates the direction and distance of each COM movement from one sampling event to the next. The COM vectors are then plotted together with each vector tail anchored at a common point to show variability in COM movement (similar to a wind rose diagram).

3.2 Total Molar Plume Trend and Ratio Analysis

In addition to the metrics described above, the CVOC groundwater data was also evaluated on a molar basis for both total chloroethenes and total chloroethanes. To evaluate the CVOC plumes on a molar basis, the total moles of the plume as well as the molar ratio of each constituent to the total were calculated.

It is known that during reductive dechlorination, a parent compound loses a chlorine atom and converts to a daughter compound (e.g. TCE to DCE). Because of the extra chlorine atom, the

parent compound on a weight basis weighs more than the daughter compound. However, in this conversion from parent to daughter example, one molecule of TCE produces one molecule of DCE and are therefore equal on a molar basis. In our analysis, the total moles only decrease once the parent-daughter compounds have been converted to ethene in the case of chloroethenes and ethane in the case of chloroethanes, and/or have been mineralized to benign end products (i.e., carbon dioxide, water, and chloride ions). Therefore, a decreasing total moles trend provides evidence of complete mineralization of CVOC compounds. Conversely, an increasing total moles trend might indicate potential new or episodic releases within a plume.

Using a molar-based approach, we can also evaluate the molar ratios of individual parent-daughter compounds. As parent compounds degrade to daughter compounds, the molar ratio of the parent compounds decrease while the ratio of daughter compounds increase. Therefore, observing the molar ratios of the individual constituents along with the trend in total moles can provide further insight into various attenuation processes that may be occurring on the Site. For example, a decreasing trend in total moles with an increasing ratio of daughter (i.e. cis-1,2-DCE) to parent (i.e. TCE) constituents may indicate evidence of biological reductive dechlorination. Whereas a decreasing trend in total moles with individual constituent ratios that remain relatively constant may indicate the occurrence of non-selective destructive processes such as abiotic chemical reduction, anthropogenic recovery, or other non-biological processes.

3.3 Ricker Method[®] Spatial Change Indicator[™] Methodology

The Ricker Method[®] Spatial Change Indicator[™] evaluation (patent pending) shows relative changes in the plume over time. For this analysis, each plume map in a particular series is compared to the first plume map in the series by subtracting from the original plume to create a new isopleth map that shows areas of the plume that decreased in concentration (indicated by blue shading), increased in concentration (indicated by red shading), or did not change (indicated by clear or no shading). The visual aspect of this analysis allows the viewer to observe patterns of plume behavior over time.

This analysis also has a quantitative component. Each Ricker Method[®] Spatial Change Indicator[™] map also includes the percent change (increase or decrease) of the plume between each event and the baseline event in terms of area, average concentration, and mass indicator as calculated using Ricker Method[®] procedures. Additionally, for areas that increased or decreased in concentration, representative magnitudes of mass increase (red shaded areas) and

mass decrease (blue shaded areas) are included on each map. A Spatial Change Indicator™ analysis for total chloroethenes and total chloroethanes is included in Appendix G.

4.0 GROUNDWATER PLUME ANALYTICS® RESULTS

One of the primary benefits of the Groundwater Plume Analytics™ process is the conversion of data into graphical and video outputs that make data more understandable. As such, we highly recommend that a meeting be convened with SCDHEC that will allow for the presentation of the graphical and visual animations of the data which will provide better context for the information reported herein.

The following is provided as a textual summary of the visual outputs. The full graphical displays and analyses, including plume map videos, COM evaluation maps, molar-trend and molar ratio evaluations, and the Spatial Change Indicator™ results are included in Appendix G.

A Ricker Method® Plume Stability Analysis was conducted for the Site using groundwater data for each of the constituents from 1999 to 2019. Throughout Site history, numerous remedial efforts and groundwater monitoring well installations were performed. April 2008 is significant because it marks the end of all remedial activity for the Site. Due to the various remedial efforts and monitoring well network expansions prior to April 2008, statistical trends were performed on the data from September 2008 through March 2019. This date range was chosen to provide insight into any lasting effects of previous remedial activities. Statistical trends were also performed on the data from February 2017 through March 2019. This date range was selected to provide insight into more recent plume behavior. Note that trends are not provided for 1,2-DCA for the above-mentioned timeframes and 1,1,2-TCA, and 1,1,1-TCA for the February 2017 through March 2019 timeframe due to the limited number of detected results. Due to limitations in the early well network (i.e. few wells), the analysis was conducted inside a prescribed “window” of the plume in order to have a consistent view of plume behavior over time. This plume window is defined by the lateral extents of the monitoring well network and therefore the plume contours were truncated at the boundary of the window. As mentioned above, the full graphical displays including plume maps, plume-stability-metric charts with trends, Spatial Change Indicators™ and COM figures are available in Appendix G. The results are summarized in the following sections.

The following table summarizes the plume stability trends for area, average concentration and mass indicator from September 2008 through March 2019.

Ricker Method® Plume Stability Results (September 2008 – March 2019)

| Constituent | Area | Average Concentration | Mass Indicator |
|----------------------------|----------------------|------------------------------|-----------------------|
| PCE | No Trend | Decreasing | Decreasing |
| TCE | Increasing | Decreasing | Decreasing |
| Cis-1,2-DCE | Decreasing | Decreasing | Decreasing |
| Trans-1,2-DCE | Decreasing | Decreasing | Decreasing |
| 1,1-DCE | Decreasing | Decreasing | Decreasing |
| Vinyl Chloride | Decreasing | Decreasing | Decreasing |
| Total Chloroethenes | Decreasing | Decreasing | Decreasing |
| 1,1,2-TCA | Decreasing | Decreasing | Decreasing |
| 1,1,1-TCA | Decreasing | Decreasing | Decreasing |
| 1,2-DCA | NA | NA | NA |
| 1,1-DCA | No Trend/Decreasing* | Decreasing | Decreasing |
| Total Chloroethanes | No Trend | Decreasing | Decreasing |
| Toluene | Decreasing | Decreasing | Decreasing |
| Ethylbenzene | Decreasing | Decreasing | Decreasing |
| Xylenes | Decreasing | Decreasing | Decreasing |

*Regression confidence factor less than 90%

The following table summarizes the plume stability trends for area, average concentration and mass indicator from February 2017 through March 2019

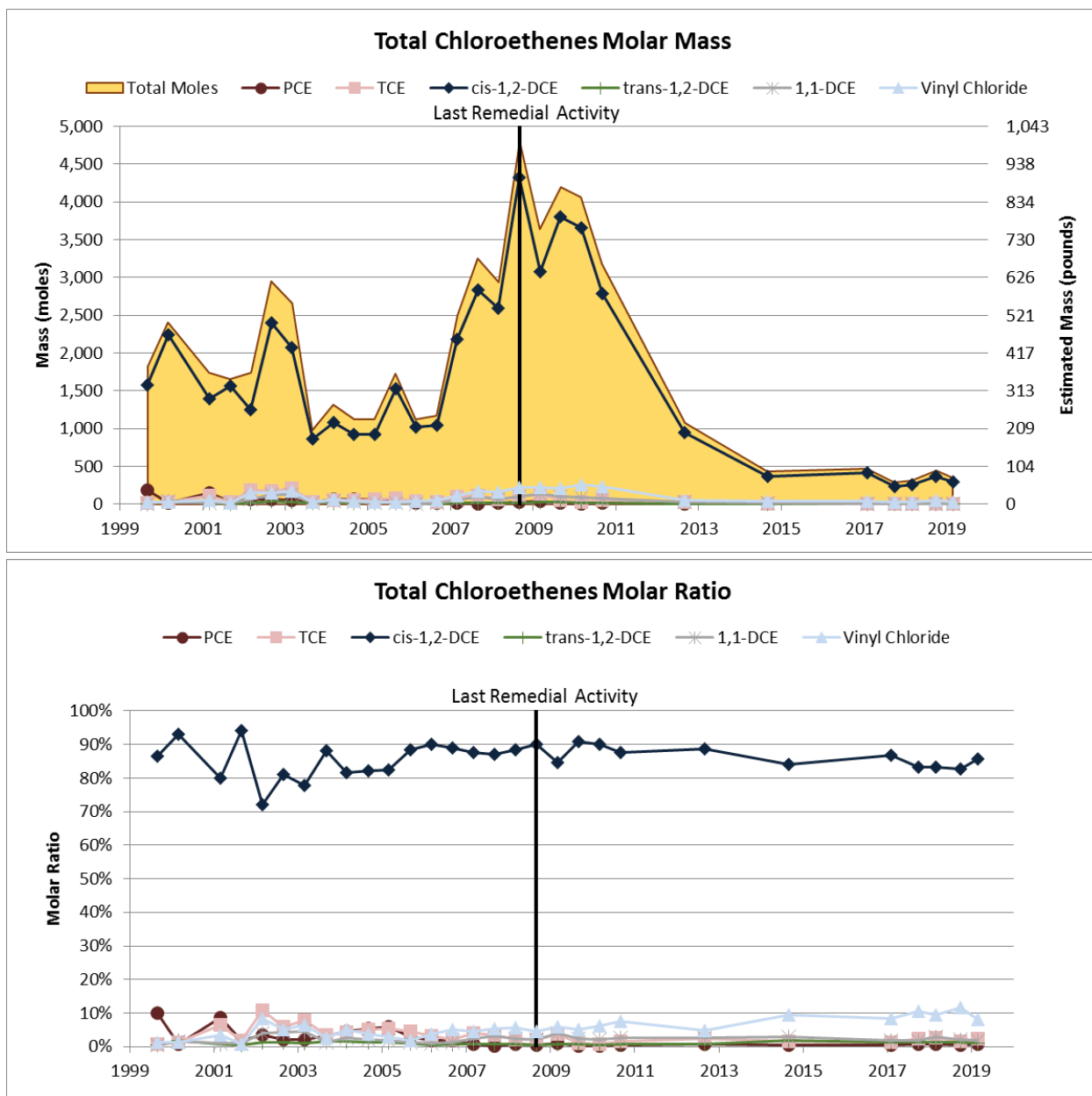
Ricker Method® Plume Stability Results (February 2017 – March 2019)

| Constituent | Area | Average Concentration | Mass Indicator |
|----------------------------|-------------|------------------------------|-----------------------|
| PCE | No Trend | No Trend | No Trend |
| TCE | Increasing | Increasing | Increasing |
| Cis-1,2-DCE | No Trend | No Trend | No Trend |
| Trans-1,2-DCE | No Trend | No Trend | No Trend |
| 1,1-DCE | No Trend | No Trend | No Trend |
| Vinyl Chloride | No Trend | No Trend | No Trend |
| Total Chloroethenes | No Trend | No Trend | No Trend |
| 1,1,2-TCA | NA | NA | NA |
| 1,1,1-TCA | NA | NA | NA |
| 1,2-DCA | NA | NA | NA |
| 1,1-DCA | No Trend | No Trend | No Trend |
| Total Chloroethanes | No Trend | No Trend | No Trend |
| Toluene | No Trend | No Trend | No Trend |
| Ethylbenzene | No Trend | No Trend | No Trend |
| Xylenes | No Trend | No Trend | No Trend |

The results summarized above indicate that the chloroethene, chloroethane, and aromatic hydrocarbon (toluene, ethylbenzene, and xylenes) plumes are all decreasing since September 2008 and are stable (i.e. no trend) since February 2017. Additional characteristics of each of these plumes are discussed further below.

4.1 Chloroethenes

The results of this analysis indicate that the total chloroethene plume, on a molar basis, has been decreasing since September 2008 as observed in the figure below. It is noted that the total chloroethene plume (indicated by the solid yellow plot on the graph below) is in units of moles on the primary y axis. Additionally, the individual constituent molar ratios are shown in the second graph below.

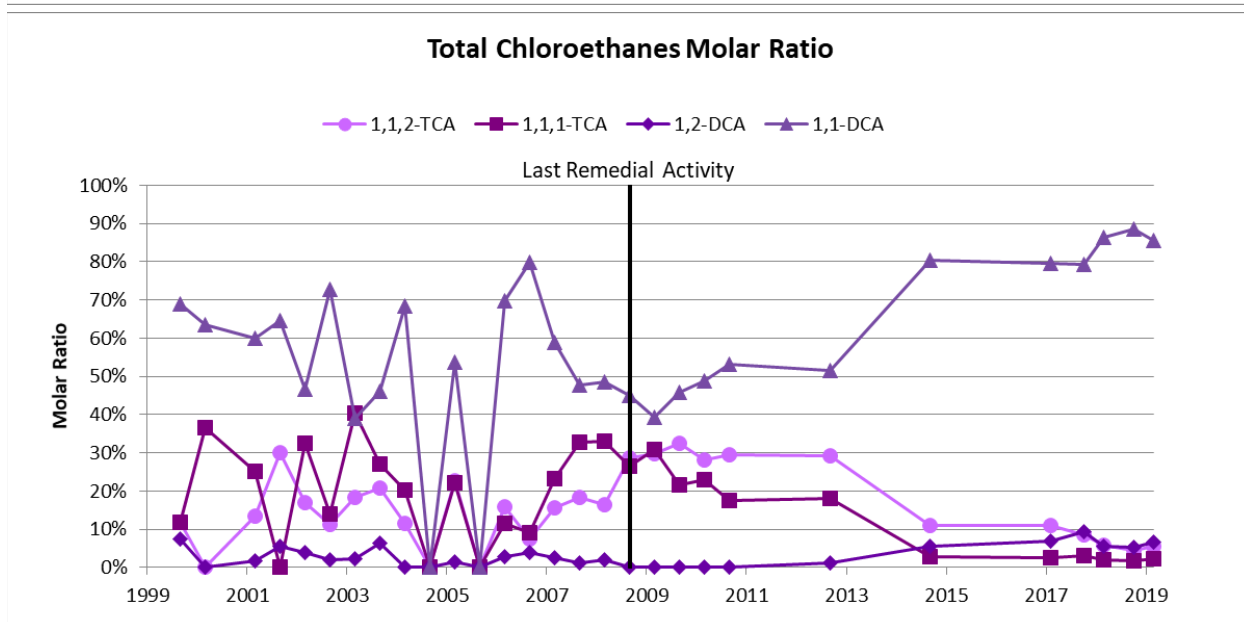
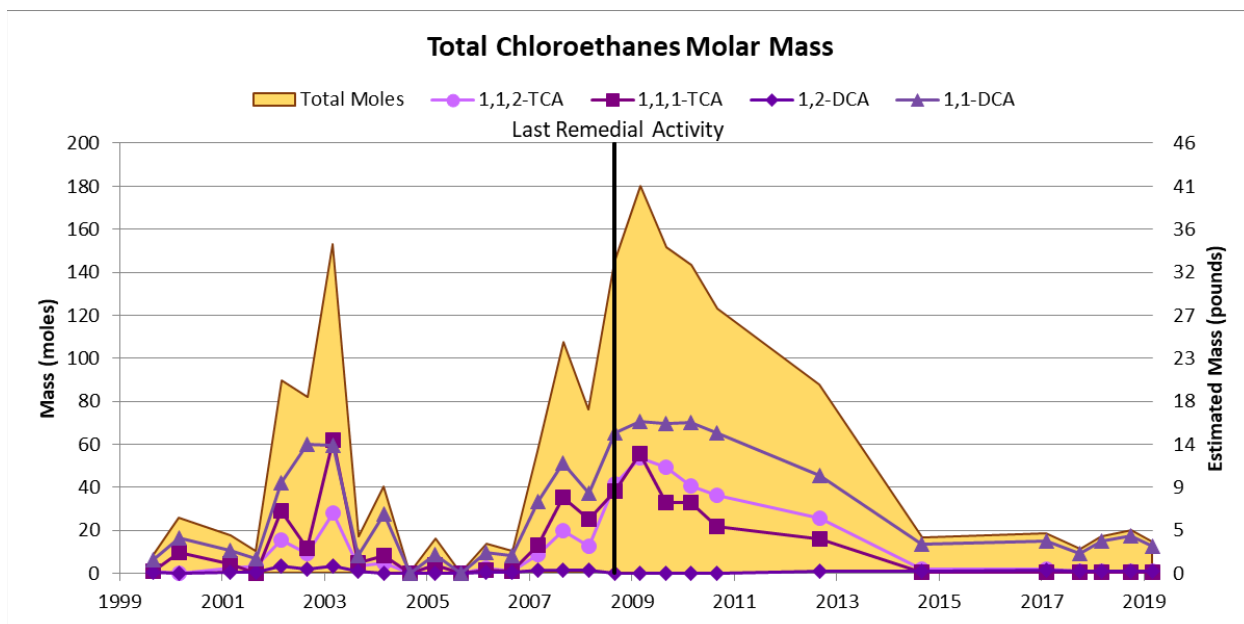


The above figure demonstrates that in addition to the strong decreasing trend since September 2008, the predominate constituent of the chloroethene plume is cis-1,2-DCE. As observed, cis-1,2-DCE represents roughly 80% to 90% of the total chloroethene plume on a molar basis. It is known that during biological reductive dechlorination, the vast majority of dichloroethene (DCE) produced by the breakdown of PCE to TCE and eventually to DCE will occur as cis-1,2-DCE. Therefore, the presence of a high percentage of cis-1,2-DCE is a strong indicator that reductive dechlorination has occurred at the Site. The rapid reduction of total moles from 2008 to 2015 is likely the result of various in-situ remediation events that occurred at the Site. Additionally, an apparent increasing trend in the ratio of vinyl chloride and decreasing trend ratio of cis-1,2-DCE is observed since 2008, most notably since 2017. The apparent decrease in ratio of cis-1,2-DCE to vinyl chloride, in the most recent data, may indicate that reductive dichlorination is still occurring at the Site.

The Ricker Method[®] Spatial Change Indicator[™] analysis shows that there is no apparent sourcing of chloroethenes occurring in the monitored area since September 2008, with decreases in area, average concentration and mass indicator of 6%, 92%, and 93%, respectively. Additionally, the chloroethene plume is delineated with analytical results below US Environmental Protection Agency (US EPA) maximum concentration level (MCLs) at MW-2, MW-4, MW-6R, MW-8, MW-11, MW-15, and MW-16. The Ricker Method[®] Spatial Change Indicator[™] conducted on the data set from February 2017 to March 2019 does not have enough data to establish clear patterns as of yet. However, the analysis shows that during this timeframe the area, average concentration, and mass indicator decreased by 2%, 25%, and 26%, respectively.

4.2 Chloroethanes

The results of this analysis indicate that the total chloroethane plume, on a molar basis, is also decreasing since September 2008, as observed by the decreasing trend in total moles in the figure below.



Similar to the chloroethenes, the chloroethanes exhibit patterns consistent with a plume undergoing reductive dechlorination. Since the cessation of remedial activities, the ratios of 1,1,2-TCA and 1,1,1-TCA (parents) are showing a decreasing trend while the daughter products 1,2-DCA and 1,1-DCA are increasing in molar ratio. The combination of decreasing total moles with decreasing parent ratios and increasing daughter ratios is a good indication of biological reductive dechlorination.

The Ricker Method[®] Spatial Change Indicator[™] analysis shows that there is no apparent sourcing of chloroethanes occurring in the monitored area since September 2008. It is noted that the small area of increase depicted around MW-5, in the September 2008 to March 2019 comparison map, is due to an increase of 1,1-DCA in MW-5 from non-detect in September 2008 to 4.6 µg/L in March 2019. Since September 2008, the 1,1-DCA concentration in MW-5 has not exceeded 6.6 µg/L. Overall, the chloroethane plume has decreased in area, average concentration and mass indicator by 8%, 89% and 90% respectively from September 2008 to March 2019. The Ricker Method[®] Spatial Change Indicator[™] conducted on the data set from February 2017 to March 2019 does not have enough data to establish clear patterns as of yet. However, the analysis shows that during this timeframe the area, average concentration, and mass indicator decreased by 6%, 17%, and 23%, respectively.

4.3 Aromatic Hydrocarbons

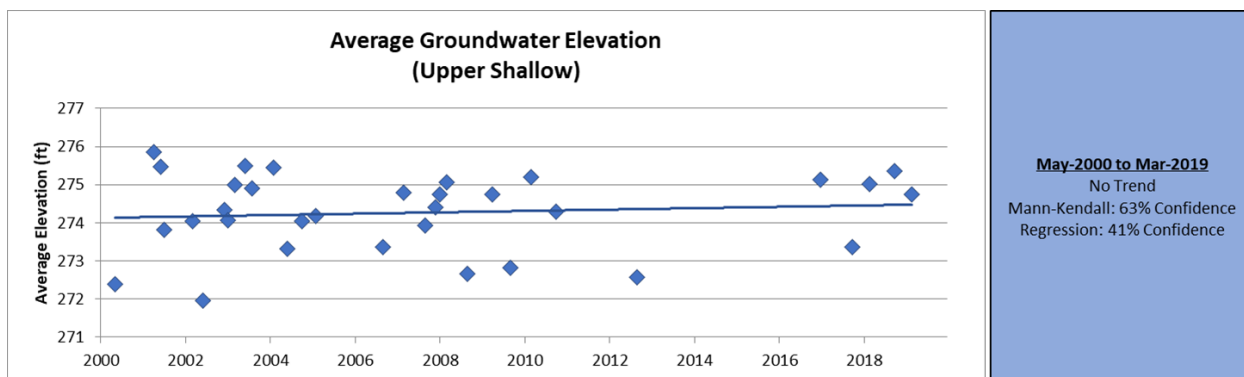
Toluene, ethylbenzene and xylenes exhibit decreasing trends from September 2008 to March 2019. Additionally, no wells exceeded US EPA MCLs for toluene, ethylbenzene or xylenes during the March 2019 event.

4.4 MNA Parameters

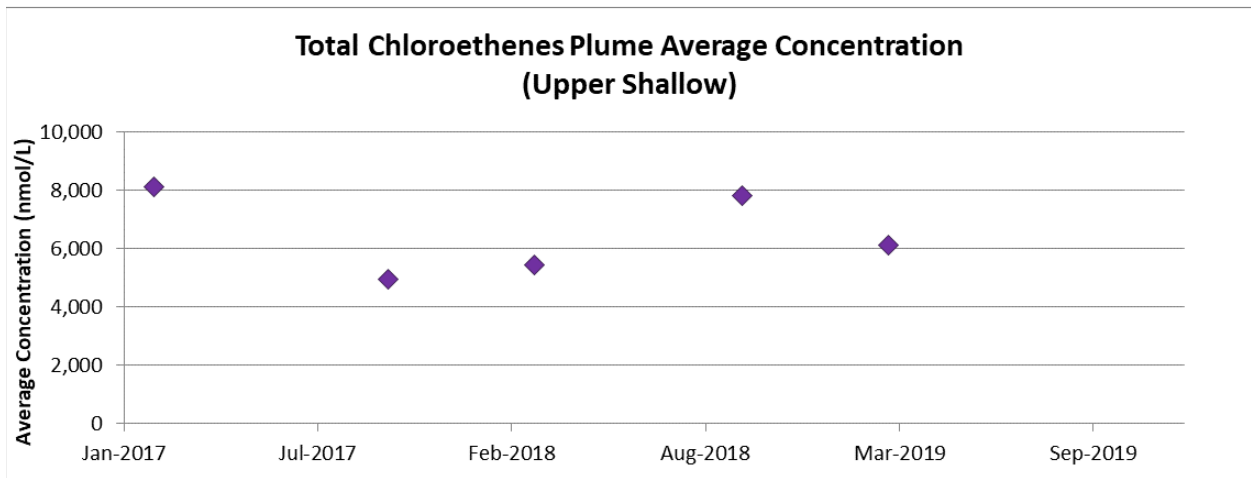
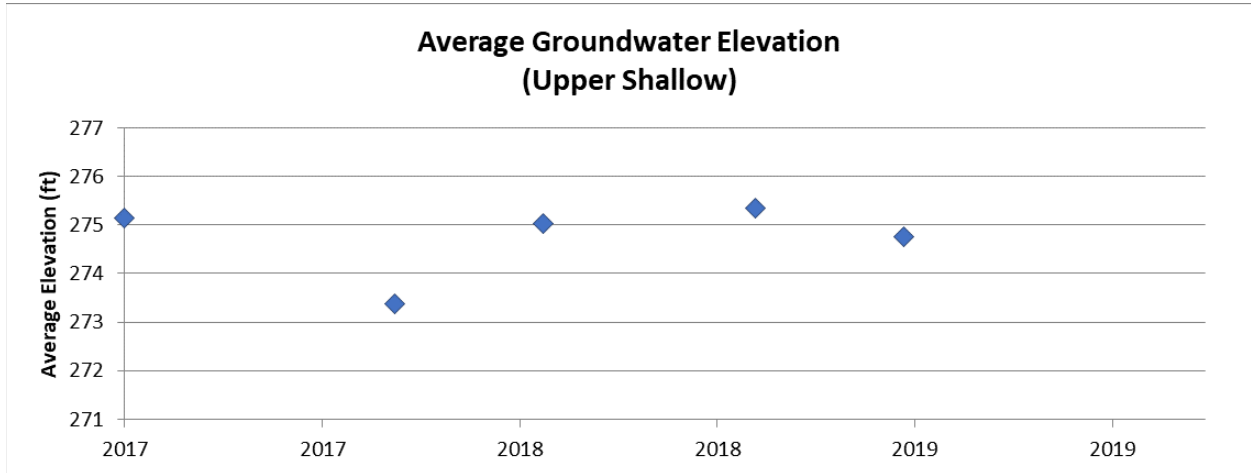
Isopleth maps were produced for each of the MNA parameters analyzed. The MNA isopleths show strong correlation and the patterns provide evidence that biological degradation is likely occurring. For example, there is evidence of biodegradation through the observation of accumulation of metabolic byproducts such as methane, ethane, and ethene, and reducing conditions as evidenced by negative oxidation-reduction potential and low dissolved oxygen. The location of the metabolic byproducts and reducing conditions correspond to the highest concentration portion of the CVOC plumes, indicating that an MNA solution for the plumes could be a viable approach. Additionally, the co-location of the aromatic hydrocarbon plumes with the CVOC plumes may prove beneficial from the standpoint that the aromatic hydrocarbons are providing a carbon-source for the anaerobic degradation of the CVOCs, which the evidence supports is occurring. MNA isopleths are included in Appendix G.

4.5 Groundwater Elevation Correlation

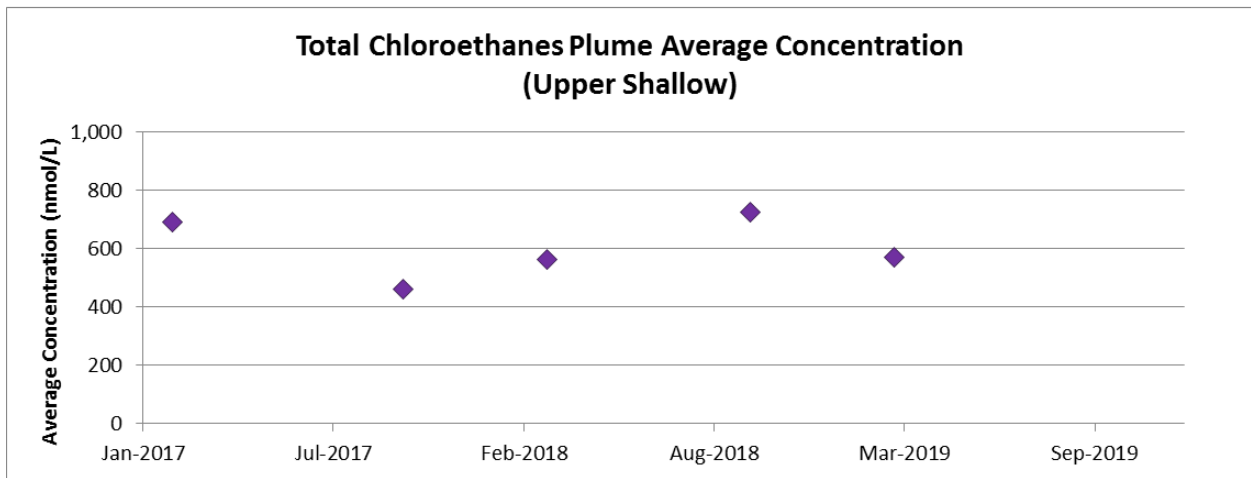
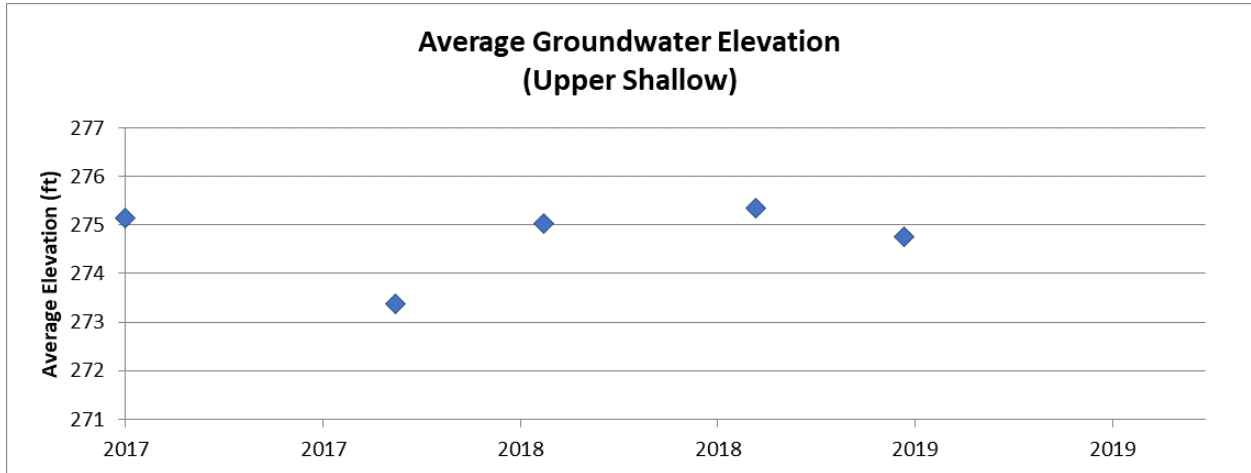
Groundwater elevations were also evaluated to assess a potential relationship between groundwater elevations and variability observed in concentration data. Groundwater data from May 2000 through March 2019 were contoured using kriging, and the average groundwater elevation was determined for each event using Ricker Method® techniques. These data were plotted to assess temporal trends in average groundwater elevation for the Site. As shown below, no trend in groundwater elevation from May 2010 to March 2019 is apparent for the Site. It is noted that there is approximately four feet of variability in the average groundwater elevation over the time period analyzed.



To assess a possible relationship between groundwater elevation and plume concentrations, a Pearson correlation coefficient was calculated, using the utility in Microsoft Excel, between the Site average groundwater elevation and the total chloroethene plume and the total chloroethane plume average concentration from January 2017 through March 2019. This date range was selected as it encompasses the data collected and verified by EarthCon. As shown below, the correlation coefficient between average Site groundwater elevation and total chloroethene plume average concentration is 0.73. The correlation coefficient between the average Site groundwater elevation and the total chloroethane plume average concentration is 0.87. Correlation values of 0.73 and 0.87 are strong positive correlations indicating that variability observed in constituent concentrations may be a result of changes in groundwater elevation.



| Quarter | Average Groundwater Elevation (ft) | Average Chloroethene Concentration (nmol/L) |
|---------------------------------|------------------------------------|---|
| Q1-2017 | 275.13 | 8,125 |
| Q4-2017 | 273.37 | 4,923 |
| Q1-2018 | 275.02 | 5,414 |
| Q4-2018 | 275.35 | 7,804 |
| Q1-2019 | 274.75 | 6,114 |
| Correlation Coefficient: | | 0.73 |



| Quarter | Average Groundwater Elevation (ft) | Average Chloroethane Concentration (nmol/L) |
|---------------------------------|------------------------------------|---|
| Q1-2017 | 275.13 | 692 |
| Q4-2017 | 273.37 | 462 |
| Q1-2018 | 275.02 | 564 |
| Q4-2018 | 275.35 | 727 |
| Q1-2019 | 274.75 | 571 |
| Correlation Coefficient: | | 0.87 |

4.6 Lower Shallow Aquifer Wells (i.e. “D” wells)

As mentioned previously, a Groundwater Plume Analytics® plume analysis could not be conducted for the four deeper wells. In instances where this occurs due to lack of a “plume” over the well

network, a well-by-well depiction of data can be presented. Appendix G presents a well-by-well display of the four lower shallow aquifer wells (MW-1D, MW-2D, MW-3D, and MW-4D).

The data show that wells MW-2D and MW-3D did not have detectable concentrations of CVOCs in the most recent sampling event other than an estimated value of 0.46 µg/L of chloroform in MW-3D. MW-1D had detectable concentrations of PCE (above the MCL) and TCE (below the MCL). MW-4D had a detectable level of PCE above the MCL and an estimated value for TCE below the MCL. CVOC concentrations in both wells have oscillated over time. Further evaluation of CVOCs for both MW-1D and MW-4D are warranted to observe whether more pronounced trends can be established for these two wells.

4.7 Summary

Based on the Groundwater Plume Analytics[®] analysis conducted on the upper shallow aquifer wells as described herein, it appears that both the chloroethene and chloroethane plumes are continuing to attenuate at the Site. The analysis supports that the more recent attenuation is likely the result of biological reductive dechlorination and probably other more secondary non-biological processes such as dispersion, dilution, volatilization, hydrolysis, etc. Additionally, the analysis indicates that there are no apparent areas of CVOC sourcing. The upper shallow aquifer plume is also well-delineated by the boundary wells surrounding the plume. Additionally, the aromatic hydrocarbon plumes also appear to be attenuating and are probably serving as a carbon source for reducing bacteria. Lastly, there does appear to be a recent strong correlation between CVOC concentrations and groundwater levels at the site. Therefore, fluctuations or variability in the CVOC data may be influenced by groundwater levels. This correlation can be evaluated further with future temporal data.

Only two of the deeper wells have CVOC detections and therefore a plume analysis could not be conducted for these two wells.

5.0 RECOMMENDATIONS

Based on the decreasing trends of total chloroethenes, total chloroethanes, and aromatic hydrocarbons observed in the upper shallow aquifer at the site; the lack of apparent sourcing; and the delineation of the plume by perimeter groundwater monitoring wells in the upper shallow aquifer, the current data strongly support that a monitored natural attenuation remedy would be appropriate and worth pursuing as the site remedy for the upper shallow aquifer. Additionally, we do not believe the data suggests that any further investigation within the upper shallow aquifer plume boundaries is warranted. As shown in the Groundwater Plume Analytics® presentation, it is our opinion that the current monitoring well network in the upper shallow aquifer is sufficient to evaluate plume behavior. Therefore, we recommend one additional year of semi-annual groundwater sampling with updates to the Groundwater Plume Analytics® to evaluate the current behavior of the plume and the feasibility of monitored natural attenuation to serve as an adequate remedy going forward. We also recommend an additional year of semi-annual monitoring to better evaluate the concentration trends of the wells in the lower shallow aquifer. After the second semi-annual sampling event, a report will be prepared and submitted to SCDHEC to provide the results of the sampling and the Groundwater Plume Analytics®, and to present recommendations for future activities.

Lastly, due to the visual nature of Plume Analytics™, Lennox strongly recommends that a meeting be held to present the results of the Groundwater Plume Analytics® services to SCDHEC. This meeting should be held as soon as practical but prior to final SCDHEC review of this document.

6.0 REFERENCES

Air Force Center for Environmental Excellence (AFCEE), March 2006, Monitoring and Remediation Optimization System (MAROS) SOFTWARE Version 2.2 User's Guide

Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. New York. John Wiley & Sons, Inc.

Ricker, J.A. 2008. A Practical Method to Evaluate Ground Water Contaminant Plume Stability. *Groundwater Monitoring & Remediation* 28, no. 4: 85–94

USEPA. 2008. Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency Office of Emergency and Remedial Response. EPA540/R-99/008. June 2008.

USEPA. 2010. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. United States Environmental Protection Agency. Office of Solid Waste and Emergency Response. January 2010.

TABLES

TABLE 1. GROUNDWATER MONITORING WELL CONSTRUCTION DETAILS

Former Ducane Company Site
 Blackville, Barnwell County, South Carolina
 BLWM File # 401356

| Monitoring Well | Installation Date | Well Completion | Ground Surface Elevation feet, NAVD | Top of Casing (TOC) Elevation feet, NAVD | Screened Interval feet, bgs | | Screen Length feet | Well Depth feet, bgs | Total Boring Depth feet, bgs |
|-----------------|-------------------|-----------------|--|---|--------------------------------|--------|-----------------------|-------------------------|---------------------------------|
| | | | | | Top | Bottom | | | |
| MW-1 | 09/01/99 | Stick-up | 279.09 | 282.05 | 5 | 20 | 15 | 20 | 30 |
| MW-1D | 09/01/99 | Stick-up | 279.08 | 282.08 | 48 | 53 | 5 | 53 | 53 |
| MW-2 | 09/01/99 | Stick-up | 274.76 | 277.71 | 5 | 15 | 10 | 15 | 20 |
| MW-2D | 09/02/99 | Stick-up | 274.72 | 277.61 | 39 | 44 | 5 | 44 | 44 |
| MW-3 | 09/01/99 | Stick-up | 277.09 | 279.68 | 5 | 15 | 10 | 15 | 15 |
| MW-3D | 09/02/99 | Stick-up | 277.11 | 279.94 | 20 | 25 | 5 | 25 | 25 |
| MW-4 | 09/01/99 | Stick-up | 276.89 | 279.74 | 8 | 18 | 10 | 18 | 20 |
| MW-4D | 06/25/01 | Stick-up | 277.05 | 279.91 | 72 | 82 | 10 | 82 | 96 |
| MW-5 | 05/12/00 | Flush | 280.23 | 279.85 | 15 | 20 | 5 | 20 | 20 |
| MW-6R | 09/24/12 | Flush | 277.24 | 277.73 | 5 | 15 | 10 | 15 | 15 |
| MW-7 | 03/26/01 | Stick-up | 277.65 | 280.76 | 2 | 12 | 10 | 12 | 12 |
| MW-8 | 03/27/01 | Flush | 277.11 | 276.83 | 2 | 12 | 10 | 12 | 12 |
| MW-9 | 03/28/01 | Stick-up | 278.76 | 279.66 | 2 | 12 | 10 | 12 | 12 |
| MW-10 | 03/28/01 | Stick-up | 276.70 | 278.12 | 2 | 12 | 10 | 12 | 12 |
| MW-11 | 03/28/01 | Stick-up | 279.56 | 280.64 | 2 | 12 | 10 | 12 | 12 |
| MW-12 | 03/28/01 | Stick-up | NA | NA | 2 | 12 | 10 | 12 | 12 |
| MW-13 | 10/14/02 | Stick-up | NA | NA | 3 | 10 | 7 | 10 | 10 |
| MW-14 | 10/14/02 | Stick-up | 278.98 | 280.81 | 2 | 12 | 10 | 12 | 12 |
| MW-15 | 09/24/12 | Stick-up | 280.68 | 282.82 | 9 | 19 | 10 | 19 | 20 |
| MW-16 | 10/18/17 | Stick-up | 275.31 | 278.48 | 9.93 | 19.57 | 9.64 | 20.00 | 20.07 |

Notes

bgs - below ground surface

NAVD - North American Vertical Datum of 1988

Well construction information obtained from boring logs or the Groundwater and Soil Assessment Report, dated January 2013.

Elevations based on survey by American Engineering Consultants, Inc. dated November 12, 2017

NA - not available; wells MW-12 and MW-13 could not be located

Prepared by: TJM 5/31/19

Checked by: CDN 6/14/19

TABLE 2. GROUNDWATER LEVEL MEASUREMENTS

Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

| Monitoring Well | Top of Casing (TOC) Elevation feet, NAVD | March 25, 2019 | |
|-----------------|---|----------------------------------|-------------------------------|
| | | Depth to Water feet below TOC | Groundwater Elevation feet |
| MW-1 | 282.05 | 6.16 | 275.89 |
| MW-1D | 282.08 | 8.45 | 273.63 |
| MW-2 | 277.71 | 3.12 | 274.59 |
| MW-2D | 277.61 | 4.41 | 273.20 |
| MW-3 | 279.68 | 4.12 | 275.56 |
| MW-3D | 279.94 | 4.67 | 275.27 |
| MW-4 | 279.74 | 6.63 | 273.11 |
| MW-4D | 279.91 | 9.39 | 270.52 |
| MW-5 | 279.85 | 6.61 | 273.24 |
| MW-6R | 277.73 | 1.37 | 276.36 |
| MW-7 | 280.76 | 5.02 | 275.74 |
| MW-8 | 276.83 | 0.38 | 276.45 |
| MW-9 | 279.66 | no access | NC |
| MW-10 | 278.12 | 3.99 | 274.13 |
| MW-11 | 280.64 | 6.65 | 273.99 |
| MW-14 | 280.81 | 6.59 | 274.22 |
| MW-15 | 282.82 | 6.12 | 276.70 |
| MW-16 | 278.48 | 4.01 | 274.47 |

Notes

NAVD - North American Vertical Datum of 1988
NC - elevation not calculated

Prepared by: JLF 04/12/19
Checked by: CDN 4/15/19

TABLE 3. FIELD PARAMETERS
Former Ducane Company Site
Blackville, Barnwell County, South Carolina
BLWM File # 401356

| Monitoring Well | Sample Date | Purge Volume Gallons | Temperature °C | pH Standard Units | Dissolved Oxygen mg/L | ORP mV | Conductivity µs/cm | Turbidity NTU | Ferrous Iron mg/L |
|-----------------|-------------|----------------------|----------------|-------------------|-----------------------|--------|--------------------|---------------|-------------------|
| MW-1 | 3/26/19 | 1.50 | 17.49 | 3.69 | 0.15 | 124.7 | 82 | 0.22 | 0.04 |
| MW-1D | 3/26/19 | 1.15 | 19.73 | 4.59 | 6.36 | 179.6 | 14 | 0.00 | 0.01 |
| MW-2 | 3/26/19 | 1.35 | 17.66 | 3.11 | 1.04 | 365.2 | 46 | 0.00 | 0.00 |
| MW-2D | 3/26/19 | 1.45 | 18.52 | 3.77 | 5.87 | 254.1 | 22 | 0.00 | 0.00 |
| MW-3 | 3/27/19 | 0.65 | 15.93 | 4.29 | 0.07 | -86.1 | 137 | 0.00 | 0.00 |
| MW-3D | 3/27/19 | 1.00 | 16.82 | 3.89 | 4.28 | 244.0 | 81 | 0.00 | 0.96 |
| MW-4 | 3/27/19 | 0.85 | 16.57 | 3.62 | 1.58 | 295.9 | 39 | 9.88 | 0.00 |
| MW-4D | 3/27/19 | 0.65 | 17.83 | 4.20 | 1.54 | 311.0 | 17 | 0.00 | 0.00 |
| MW-5 | 3/27/19 | 1.70 | 17.95 | 3.83 | 0.76 | 276.9 | 70 | 5.92 | 0.00 |
| MW-6R | 3/26/19 | 1.40 | 15.73 | 4.66 | 1.39 | 116.2 | 75 | 4.04 | 0.00 |
| MW-7 | 3/26/19 | 0.80 | 15.70 | 5.07 | 1.28 | -70.0 | 101 | 2.06 | 0.01 |
| MW-8 | 3/26/19 | 1.45 | 17.52 | 4.60 | 8.74 | 70.5 | 104 | 2.66 | 2.96 |
| MW-10 | 3/27/19 | 1.30 | 16.19 | 4.03 | 0.60 | 152.2 | 38 | 4.93 | 0.00 |
| MW-11 | 3/27/19 | 0.35 | 18.76 | 4.92 | 5.32 | 73.7 | 117 | 7.65 | 0.00 |
| MW-14 | 3/27/19 | 0.90 | 15.02 | 3.81 | 0.49 | 98.6 | 48 | 1.02 | 0.17 |
| MW-15 | 3/26/19 | 1.40 | 17.99 | 4.96 | 0.25 | 135.6 | 92 | 0.99 | 0.00 |
| MW-16 | 3/26/19 | 1.65 | 17.03 | 3.35 | 3.82 | 394.3 | 102 | 9.78 | 0.00 |

Notes

mg/L - milligrams per liter
mV - millivolts
µs/cm - microsiemens per centimeter
NTU - nephelometric turbidity units
NM- not measured

Prepared by: JLF 04/12/19
Checked by: CDN 4/15/19

TABLE 4. SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - ORGANICS

Former Ducane Company Site
 Blackville, Barnwell County, South Carolina
 BLWM File # 401356

| Constituent (ug/L) | | Acetone | Chloroform | 1,1-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Toluene | Tetrachloroethene | 1,1,2-Trichloroethane | Trichloroethene | Vinyl Chloride | Xylenes (total) | 1,4-Dioxane* |
|--------------------|--------------|--------------|---------------|--------------------|--------------------|------------------------|--------------------------|--------------|-------------|-------------------|-----------------------|-----------------|----------------|-----------------|--------------|
| MCL (ug/L) | | NA | 80** | NA | 7 | 70 | 100 | 700 | 1000 | 5 | 5 | 5 | 2 | 10000 | NA |
| RSL (ug/L) | | 1400 | 0.22 | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 |
| Well | Date Sampled | | | | | | | | | | | | | | |
| MW-1 | 3/26/19 | <200 | <10 | <10 | <10 | 1,400 J | 4.8 J | 32 J | <10 | 4.9 J | <10 | 6.3 J | 33 J | 200 J | <1.0 |
| MW-1D | 3/26/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 13 | <1.0 | 2.7 | <1.0 | <1.0 | <1.0 |
| MW-2 | 3/26/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-2D | 3/26/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 3/27/19 | <4,000 | <200 | 1,100 | 540 | 15,000 | 120 J | 310 | 97 J | <200 | <200 | <200 | 900 | 1,200 | 310 |
| MW-3D | 3/27/19 | <20 | 0.46 J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-4 | 3/27/19 | <20 | <1.0 | <1.0 | <1.0 | 4.1 | <1.0 | <1.0 | <1.0 | 2.4 | 0.67 J | 4.6 | <1.0 | <1.0 | <1.0 |
| MW-4D | 3/27/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 19 | <1.0 | 0.53 J | <1.0 | <1.0 | <1.0 |
| MW-5 | 3/27/19 | <100 | <5.0 | 4.6 J | <5.0 | 320 | 2.9 J | <5.0 | <5.0 | 130 | <5.0 | 250 | 3.5 J | <5.0 | 9.7 |
| MW-6R | 3/26/19 | 7.7 J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 3/26/19 | <100 | <5.0 | <5.0 | <5.0 | 440 | <5.0 | 79 | <5.0 | <5.0 | <5.0 | <5.0 | 200 | 210 | <1.0 |
| MW-8 | 3/26/19 | 11 J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.2 |
| MW-10 | 3/27/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | 3/27/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-14 | 3/27/19 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | 3/26/19 | 2.7 J | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | 3/26/19 | <20 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes

ug/L - micrograms per liter
 < less than the noted limit of quantitation (LOQ)
 J - estimated concentration
 * - 1,4-dioxane reported to the detection limit (DL)
 ** - MCL for total Trihalomethanes
 MCL - US EPA Maximum Contaminant Level
 RSL - US EPA Regional Screening Level for Tap Water
 NA - not available
Bold - Constituent detected above LOQ or DL
Bold and Shaded - Constituent detected above the RSL and/or MCL

Prepared by: JLF 04/12/19
 Checked by: CDN 4/15/19

TABLE 5. GROUNDWATER MNA RESULTS

Former Ducane Company Site
 Blackville, Barnwell County, South Carolina
 BLWM File # 401356

| Monitoring Well | Sample Date | Alkalinity mg/L | Chloride mg/L | Nitrate-N mg/L | Sulfate mg/L | Sulfide mg/L | TOC mg/L | Ethane ug/L | Ethene ug/L | Methane ug/L | Propane ug/L |
|-----------------|-------------|-----------------|---------------|----------------|---------------|--------------|---------------|--------------|-------------|---------------|--------------|
| MW-1 | 3/26/19 | <20 | 17 | <0.020 | 19.0 | <1.0 | 1.2 | <10 | 10 | 350 | <15 |
| MW-1D | 3/26/19 | <20 | 2.1 | 0.091 | 0.76 J | <1.0 | <1.0 | <10 | <10 | <10 | <15 |
| MW-2 | 3/26/19 | <20 | 8.0 | 1.4 | 1.5 | <1.0 | <1.0 | <10 | <10 | <10 | <15 |
| MW-2D | 3/26/19 | <20 | 2.6 | 0.19 | 1.2 | <1.0 | <1.0 | <10 | <10 | <10 | <15 |
| MW-3 | 3/27/19 | <20 | 33 | <0.020 | 0.92 J | 3.5 | 11 | 18 J | 76 | 11,000 | <75 |
| MW-3D | 3/27/19 | <20 | 17 | 4.9 | 2.8 | <1.0 | <1.0 | <10 | <10 | 2.9 J | <15 |
| MW-4 | 3/27/19 | <20 | 8.3 | <0.020 | 12.0 | <1.0 | 0.71 J | <10 | <10 | 3.3 J | <15 |
| MW-4D | 3/27/19 | <20 | 1.8 | 0.065 | 2.9 | <1.0 | <1.0 | <10 | <10 | <10 | <15 |
| MW-5 | 3/27/19 | <20 | 17 | 0.61 | 3.3 | <1.0 | 0.52 J | <10 | <10 | 2,200 | <15 |
| MW-6R | 3/26/19 | <20 | 8.0 | 1.9 | 3.6 | <1.0 | 18 | <10 | <10 | <10 | <15 |
| MW-7 | 3/26/19 | 46 | 5.3 | 0.056 | 1.3 | <1.0 | 4.5 | 4.7 J | 17 | 120 | <15 |
| MW-8 | 3/26/19 | <20 | 3.4 | <0.020 | 97 | 1.1 | 12 | <10 | <10 | 100 | <15 |
| MW-10 | 3/27/19 | <20 | 6.7 | <0.020 | 19 | <1.0 | 2.0 | <10 | <10 | 65 | <15 |
| MW-11 | 3/27/19 | 59 | 2.8 | <0.020 | 6.9 | <1.0 | 3.8 | <10 | <10 | 14 | <15 |
| MW-14 | 3/27/19 | <20 | 2.0 | <0.020 | 16 | <1.0 | 0.81 J | <10 | <10 | 100 | <15 |
| MW-15 | 3/26/19 | 27 | 4.5 | 0.13 | 13 | <1.0 | 0.52 J | <10 | <10 | <10 | <15 |
| MW-16 | 3/26/19 | <20 | 16 | 6.6 | 1.3 | <1.0 | <1.0 | <10 | <10 | <10 | <15 |

Notes

mg/L - milligrams per liter

ug/L - micrograms per liter

TOC - total organic carbon

J - estimated concentration above the detection limit (DL)

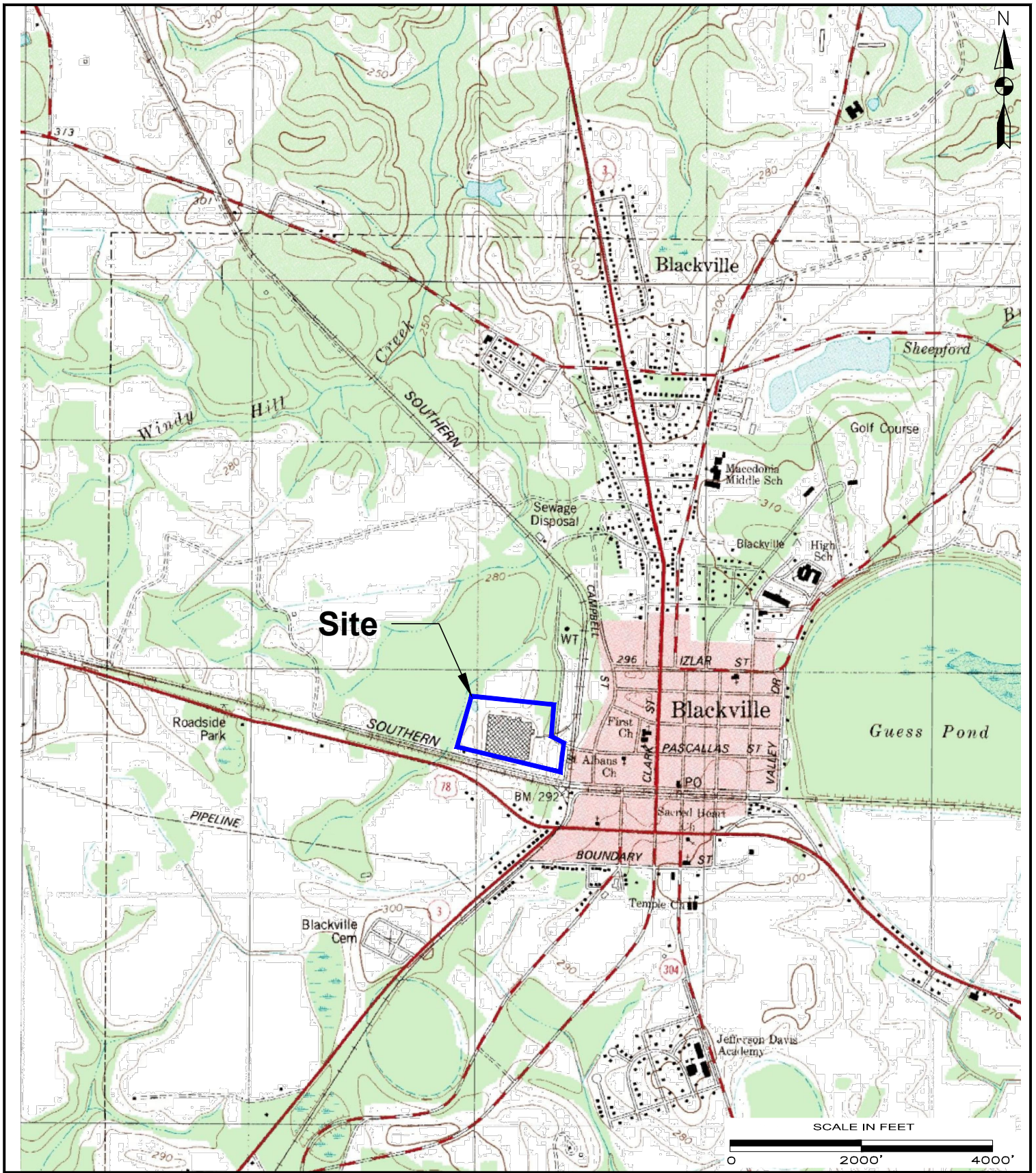
Bold - Constituent detected above limit of quantitation (LOQ) or DL

Prepared by: JLF 04/12/19

Checked by: CDN 4/15/19

FIGURES

FILE NAME: s:\Premier\Projects\Lennox International\Blackville, SC\Drawings\Lennox_Main_2017.dwg (Site Location) 06/25/18 10:06 - hpham



FORMER DUNCANE COMPANY SITE
 BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
 BLWM FILE # 401356



SITE LOCATION MAP

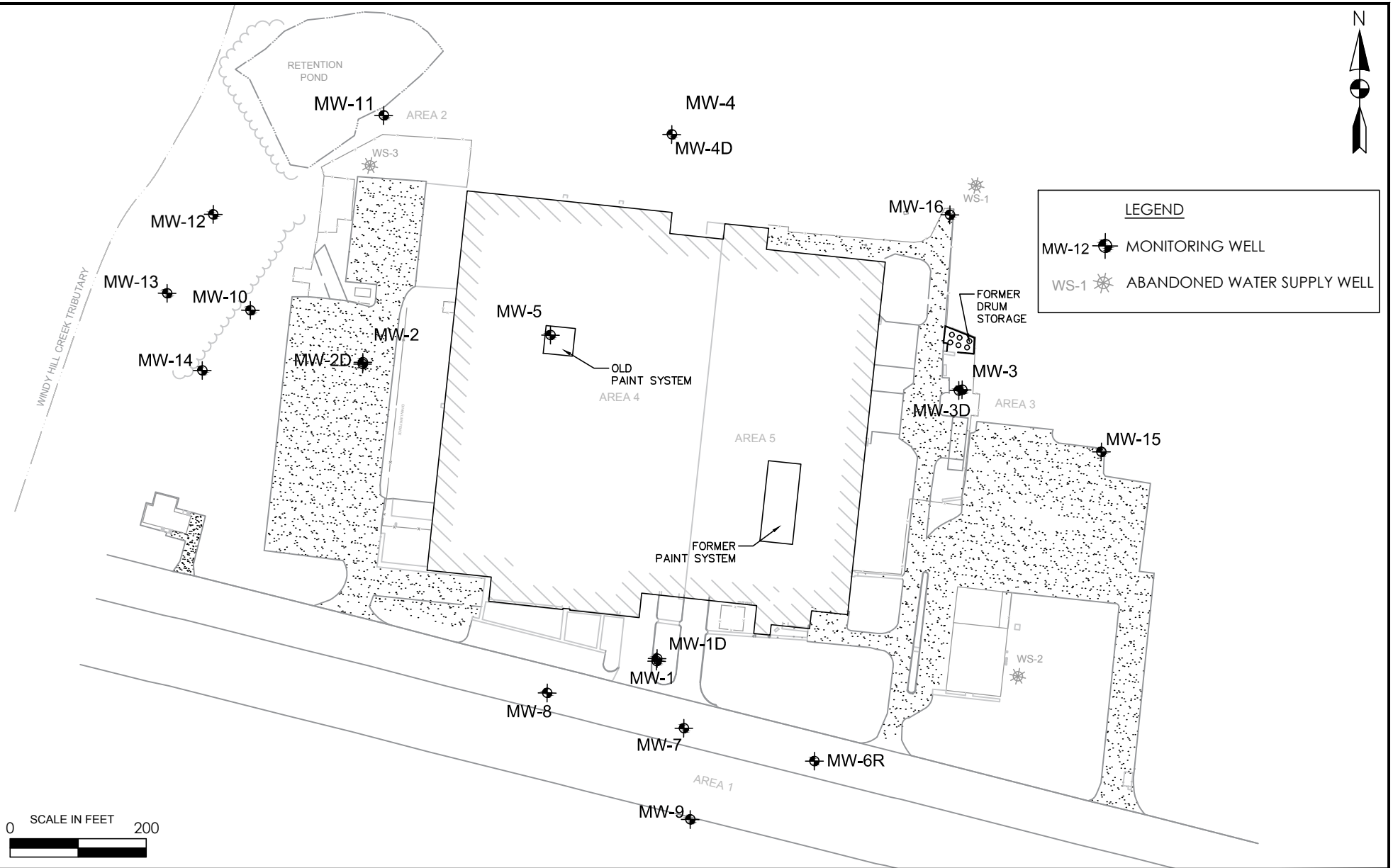
EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

PROJECT NO. 02.20160378.00

| | | | |
|------------|--------------|------------------|-----------|
| DRAWN: HVP | CHECKED: RLA | DATE: 06/22/2018 | FIGURE: 1 |
|------------|--------------|------------------|-----------|

FILE NAME: S:\Premier\Projects\Lennox International\Blackville, SC Drawings\Lennox_Main_2017.dwg (Site Layout) 07/03/18 16:39 - hpham



FORMER DUNCANE COMPANY SITE
 BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
 BLWM FILE # 401356

PROJECT NO. 02.20160378.00



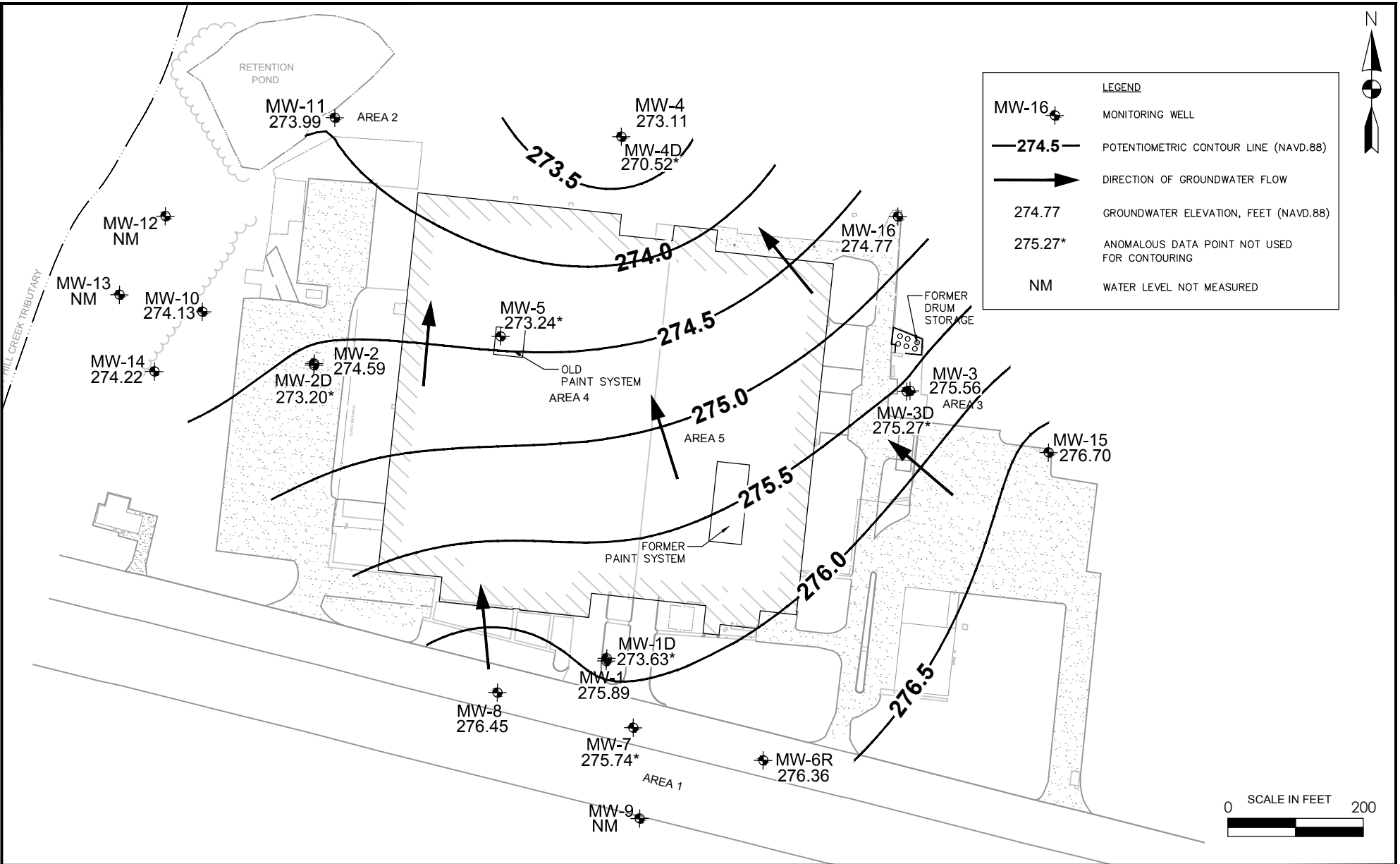
EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

SITE LAYOUT

| | | | |
|------------|--------------|------------------|-----------|
| DRAWN: HVP | CHECKED: RLA | DATE: 06/22/2018 | FIGURE: 2 |
|------------|--------------|------------------|-----------|

FILE NAME: S:\Premier\Projects\Lennox International\Blackville_SCDrawings\Lennox_Main_2017.dwg (POTMAP Mar 2019) 05/03/19 12:45 - hpham



FORMER DUNCANE COMPANY SITE
 BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
 BLWM FILE # 401356

PROJECT NO. 02.20160378.00

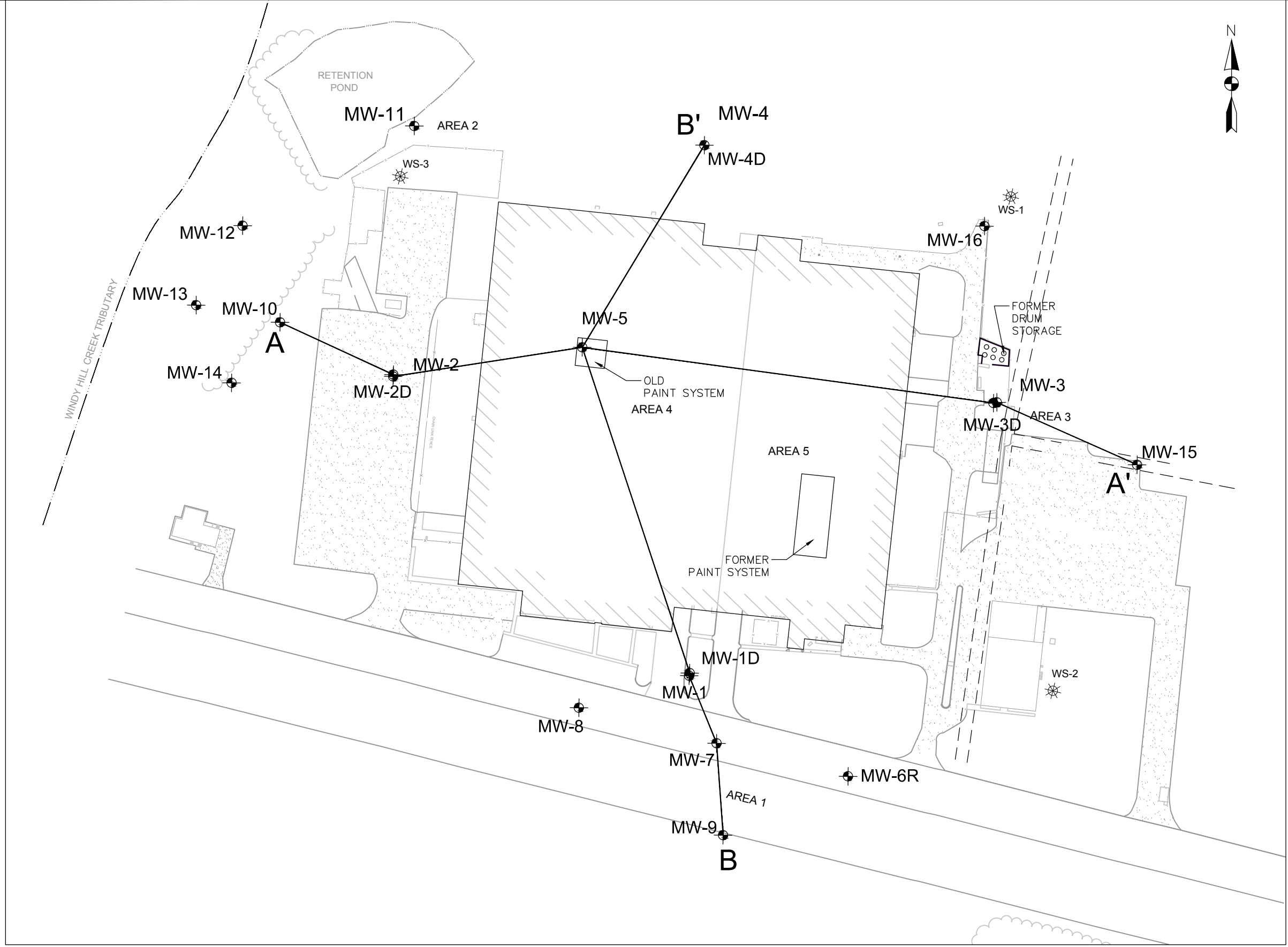


EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

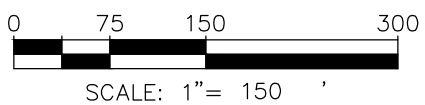
POTENTIOMETRIC SURFACE MAP
 MARCH 25, 2019

| | | | |
|------------|--------------|--------------------|-----------|
| DRAWN: HVP | CHECKED: CDN | DATE: MAY 02, 2018 | FIGURE: 3 |
|------------|--------------|--------------------|-----------|



LEGEND

- MW-12 MONITORING WELL
- WS-1 ABANDONED WATER SUPPLY WELL

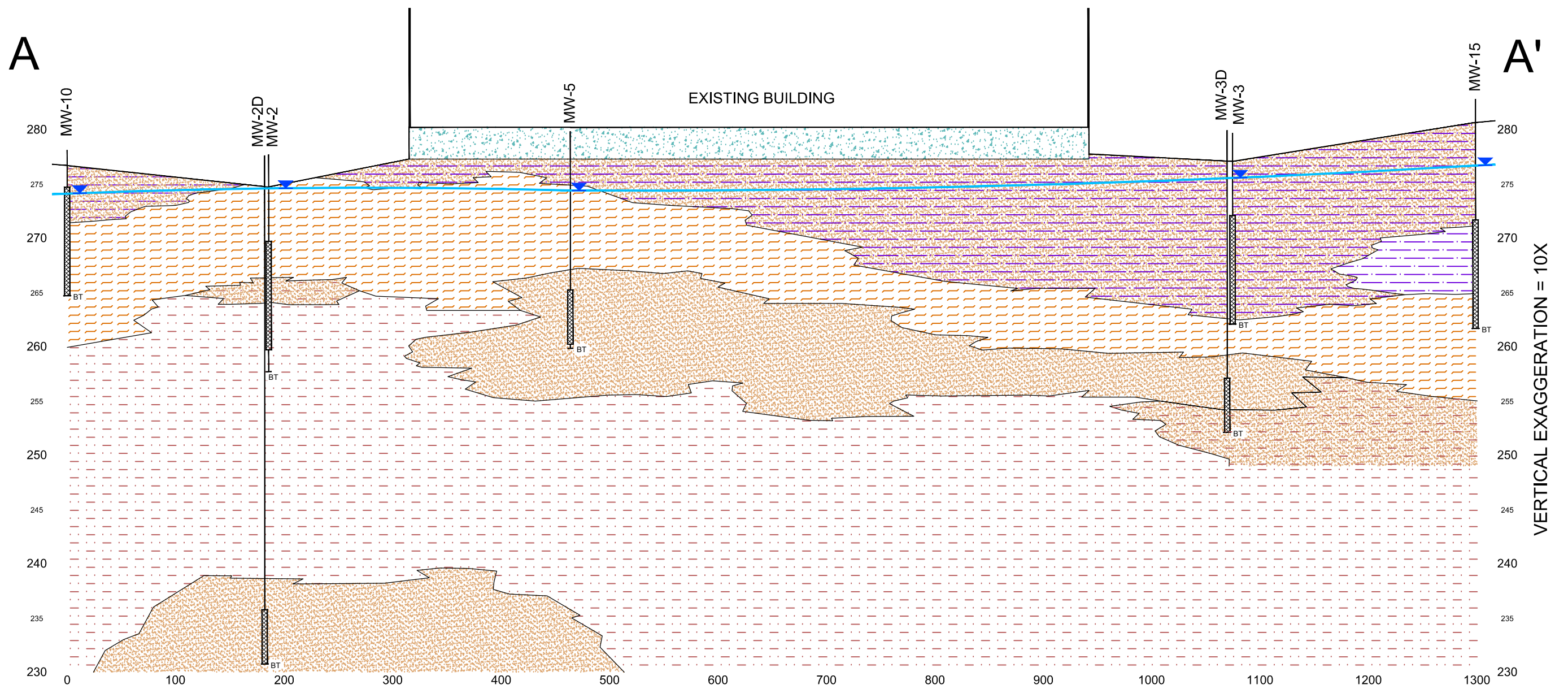


FORMER DUNCANE COMPANY SITE
 BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
 BLWM FILE # 401356
 PROJECT NO. 02.20160378.00

EARTHCON[®]
 EarthCon Consultants, Inc.
 1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION LOCATION MAP

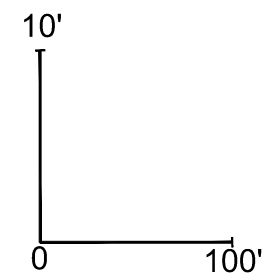
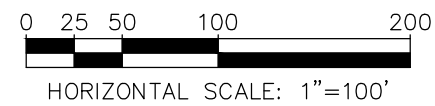
| | | | |
|------------|--------------|-----------------|-----------|
| DRAWN: HVP | CHECKED: AGL | DATE: 7/16/2019 | FIGURE: 4 |
|------------|--------------|-----------------|-----------|



VERTICAL EXAGGERATION = 10X

LEGEND

- | | | | |
|--|----------------------|--|---|
| | EXISTING BUILDING | | SANDY SILT |
| | CLAYEY SAND | | CLAY |
| | SILT / CLAYEY SILT | | SAND |
| | SAND | | SILTY SAND |
| | SANDY CLAY | | GROUNDWATER ELEVATION (FEET, NAVD.88) MARCH 25, 2019 |
| | WELL SCREEN INTERVAL | | BORING TERMINATED |



FORMER DUNCANE COMPANY SITE
BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00



EarthCon Consultants, Inc.

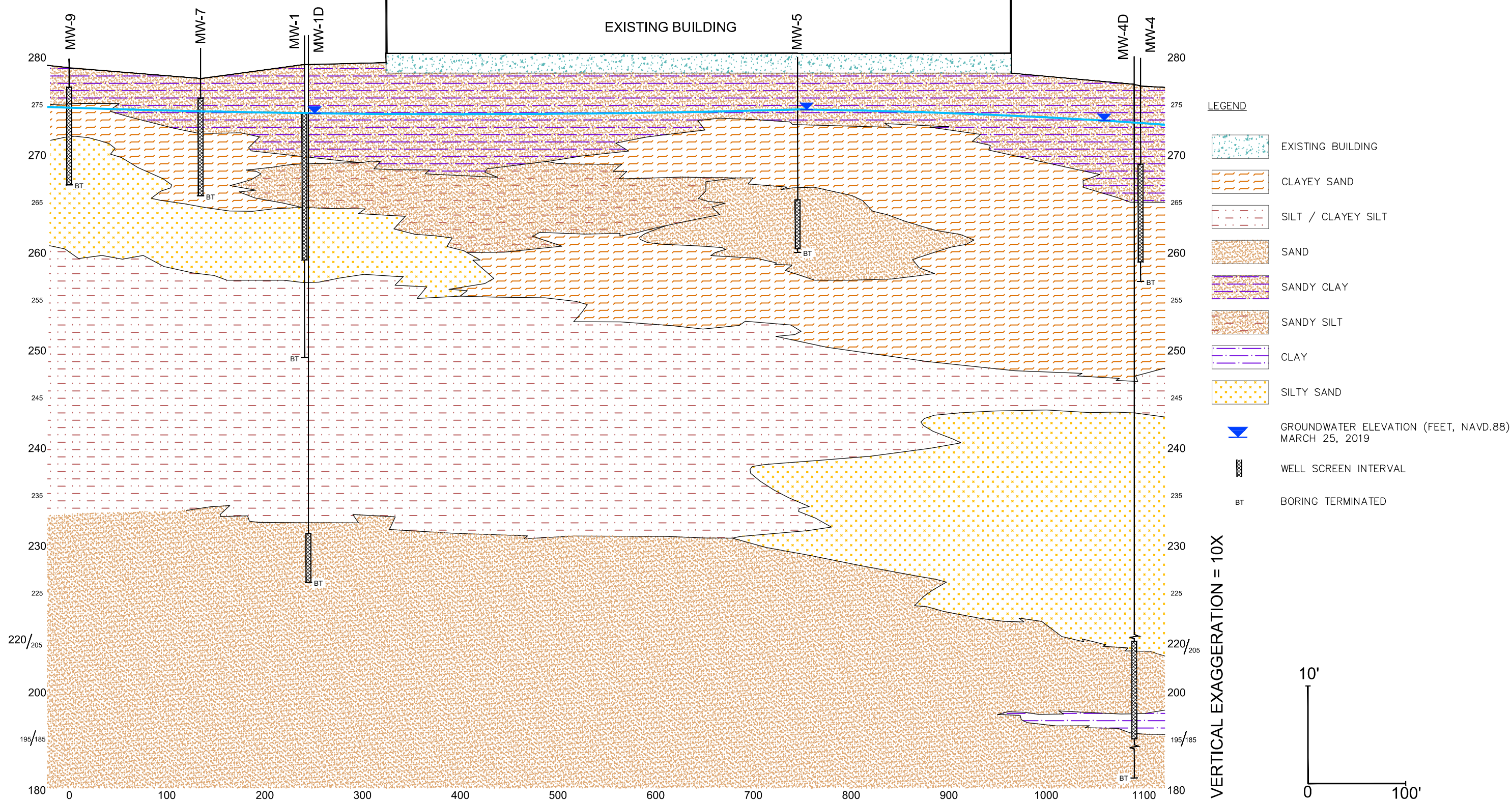
1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION A-A'

| | | | |
|------------|--------------|-----------------|-----------|
| DRAWN: HVP | CHECKED: AGL | DATE: 7/16/2019 | FIGURE: 5 |
|------------|--------------|-----------------|-----------|

B

B'



FORMER DUNCANE COMPANY SITE
BLACKVILLE, BARNWELL COUNTY, SOUTH CAROLINA
BLWM FILE # 401356

PROJECT NO. 02.20160378.00



EarthCon Consultants, Inc.

1880 WEST OAK PKWY, BLDG 100, STE 106, MARIETTA, GA, 30062

CROSS SECTION B-B'

| | | | |
|------------|--------------|-----------------|-----------|
| DRAWN: HVP | CHECKED: AGL | DATE: 7/16/2019 | FIGURE: 6 |
|------------|--------------|-----------------|-----------|

APPENDICES

Appendix A

Summary of Field Procedures – March 2019

APPENDIX A: SUMMARY OF FIELD PROCEDURES – MARCH 2019

A groundwater sampling event was conducted in March 2019 at the Former Ducane Company Site. The field activities are described in the following sections. Field sampling forms are provided in Appendix B. Laboratory analytical reports are provided in Appendix D.

GROUNDWATER SAMPLING

A groundwater sampling event was conducted from March 25 to 28, 2019 and 17 of the 20 Site monitoring wells were sampled. Monitoring wells MW-12 and MW-13 could not be located while monitoring well MW-9 is located on private property and access could not be obtained. Well construction details are provided in Table 1.

Groundwater sampling was conducted in general accordance with the United States Environmental Protection Agency (USEPA) Region 4 Science and Ecosystem Support Division (SESD) Operating Procedure (OP) for *Groundwater Sampling* (as updated) using low-flow techniques. Prior to sampling, water level measurements were collected from each well and water quality parameters were measured. Water level measurements are presented in Table 2. The field parameters measured at the time of groundwater sampling are provided on the field forms in Appendix B and presented in Table 3.

Sample Containers

The laboratory provided sample containers that met the sampling requirements of the study. The laboratory verified the cleanliness of each batch of containers prior to use. The laboratory supplied the necessary preservation solutions and shipped these with the sample containers.

The field samplers took responsibility for properly identifying the location of each sample taken and for recording the sample date, the type of sample, the preservative used, and the applicable project number. This information was documented in the field book/field form. This same information was then placed on the sample identification label and the chain-of-custody record. Sample labels were filled out with indelible ink. If the field sampler determined that additional information was pertinent to a sample being taken, such data was recorded in the field book or on the field form.

Groundwater Level Measurement

Prior to well sampling, depth to groundwater and total well depth were measured using an electronic tape or water level indicator. A fixed point was marked with an indelible marker on each well to serve as a reference point for measurement. Depths were measured to the nearest 0.01 foot and recorded on the field sheet. The tape was cleaned with phosphate-free laboratory detergent and water and rinsed with distilled water prior to each use.

Well Purging

The monitoring wells were purged using a low flow/low volume method with a peristaltic pump and dedicated, disposable, polyethylene tubing. The groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured during purging.

Purging continued until a minimum of three consecutive stable readings were measured with five to fifteen-minute intervals between readings. Pumping rates were reduced as much as possible to reduce the amount of drawdown in the wells.

Purging was considered complete after the depth to water and water quality parameters stabilized. Purge water from the wells was temporarily placed in five-gallon buckets and emptied into a 55-gallon steel drum. Additional information regarding the purging and sampling activities including the volume of water in each well, purge rate, and depth to water during the purge process are provided in the field sampling forms in Appendix B.

Groundwater Sampling and Analysis

Groundwater samples were collected after the water level in the well stabilized and after the pH and specific conductance measurements stabilized. A peristaltic pump and polyethylene tubing were used to collect the groundwater samples. The groundwater samples were collected from the intake end of the dedicated polyethylene discharge tubing after the peristaltic pump was stopped and the tubing was removed from the well. The groundwater samples were placed into laboratory supplied pre-preserved containers, labeled, and recorded on a Chain-of-Custody form. The containers were then placed in a cooler on ice, and transported to Shealy Environmental Services, Inc. (DHEC Certification No. 32010) in Columbia, SC.

The groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B and 1,4-dioxane using EPA Method 8260B SIM. Groundwater samples were also analyzed for the monitored natural attenuation (MNA) parameters nitrate, sulfate, sulfide, chloride, alkalinity, total organic carbon (TOC) and dissolved gasses (ethane, ethene, methane and propane). Field measurements of ferrous iron were also collected. A summary of the organic analytical results is provided in Table 4 while the MNA results are provided in Table 5. The laboratory analytical reports are provided in Appendix D.

Decontamination Procedures

Decontamination procedures consisted of the use of dedicated, disposable tubing at each sampling location. Equipment such as the water level indicator and field measurement instrumentation were cleaned with phosphate-free laboratory detergent and rinsed with distilled water in general accordance with the EPA SESD OP for *Field Equipment Cleaning and Decontamination* (as updated). The equipment was allowed to air dry. Nitrile gloves were also worn and changed between each sampling location.

Equipment Calibration

Equipment used to perform field testing on groundwater samples included a HF Scientific Micro TPW 20000 turbidity meter and a Hanna HI 98194 with flow thru cell meter to measure pH, specific conductivity, temperature, dissolved oxygen, ORP, and turbidity. Equipment calibration was verified daily.

Field Sampling Forms

Field personnel maintained a permanently bound, water resistant field notebook. Field activities were recorded with indelible ink. Additionally, sampling field forms were completed for each sample. The notebook, sampling forms, and chain-of-custody records contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later time.

Chain-of-Custody

Sample custody was documented from the time of sample collection when the labeled sample was placed into an iced cooler in the possession of the sampling technician. A corresponding line item on the chain-of-custody record was filled out and initialed by the sampling technicians. The chain-of-custody record is used to track custody of samples during transport and shipping. Upon completion of appropriate line items, or upon sample pick-up, the field representative signed, dated, listed the time, and confirmed the completeness of descriptive information contained on the form. The chain-of-custody form accompanied the samples and terminated upon laboratory receipt of samples. All entries were recorded in ink. Each sample had a corresponding entry on a chain-of-custody record.

Analytical Procedures and QA/QC

Groundwater samples were transported to Shealy Environmental Services, Inc. under chain-of-custody protocols. The samples were analyzed for VOCs by EPA Method 8260B and 1,4-dioxane by EPA Method 8260B SIM. Quality control samples, consisting of blind duplicates, trip blanks, and laboratory method blanks were also collected and analyzed for these parameters. The data validation summary and laboratory analytical reports are provided in Appendix D.

Appendix B

Field Sampling Forms – March 2019



Groundwater Sampling Record

| | | | |
|--------------------------|--------------------------------------|--|----------------------|
| WELL No. MW-1 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE <u>03/26/19</u> |
| SAMPLE No. <u>MW-1</u> | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: <u>0920</u> | SITE : | FIELD CONDITIONS/WEATHER <u>cloudy, overcast ~55°F</u> | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: locked not locked number: legible not legible outer casing: good <u>fair</u> poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | |
|---|---|
| Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____ | Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft ³) Casing Volume (gallons/ft) for: <u>2" = 0.163</u> ; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|---|---|

| | |
|--|---|
| Depth to Water (feet): <u>6.00</u> Depth of Well (feet): <u>21.9</u> Water Column (feet): <u>15.9</u> Casing Volume (gallons/liters): <u>2.59</u> Calculated Purge Volume (gallons/liters): <u>7.78</u> Actual Purge Volume (gallons/liters): <u>1.50</u> Pump Intake Depth (feet): <u>~15</u> | Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.04</u> |
|--|---|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (us/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|-------------|-------------------------------|--------------|-------------------------|--------------------|--------------------------|------------------------|
| <u>0840</u> | 0 | | | | | | | | PURGE START |
| <u>0845</u> | <u>0.10</u> | <u>16.05</u> | <u>4.27</u> | <u>1.78</u> | <u>186.1</u> | <u>80</u> | <u>1.82</u> | <u>6.15</u> | <u>clear</u> |
| <u>0850</u> | <u>0.25</u> | <u>16.40</u> | <u>3.98</u> | <u>0.59</u> | <u>216.0</u> | <u>79</u> | <u>1.80</u> | <u>6.19</u> | " |
| <u>0855</u> | <u>0.50</u> | <u>16.92</u> | <u>3.76</u> | <u>0.34</u> | <u>237.5</u> | <u>79</u> | <u>2.12</u> | <u>6.20</u> | " |
| <u>0901</u> | <u>0.75</u> | <u>16.99</u> | <u>3.74</u> | <u>0.35</u> | <u>230.3</u> | <u>79</u> | <u>0.49</u> | <u>6.20</u> | " |
| <u>0905</u> | <u>1.00</u> | <u>17.34</u> | <u>3.70</u> | <u>0.22</u> | <u>143.0</u> | <u>80</u> | <u>0.80</u> | <u>6.20</u> | " |
| <u>0909</u> | <u>1.20</u> | <u>17.48</u> | <u>3.69</u> | <u>0.17</u> | <u>136.2</u> | <u>81</u> | <u>0.47</u> | <u>6.20</u> | " |
| <u>0913</u> | <u>1.35</u> | <u>17.49</u> | <u>3.64</u> | <u>0.15</u> | <u>124.7</u> | <u>82</u> | <u>0.22</u> | <u>6.20</u> | " |
| <u>0920</u> | <u>SAMPLE</u> | | | | | | | | |

| | | | |
|------------------------------------|-------------------|-----------------|------------------|
| Measurement and Sampling Equipment | | | |
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>-YSI-Hanna</u> | <u>556</u> | <u>3/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | <u>NA</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |

DUP-1 collected 0930



Groundwater Sampling Record

| | | | |
|-------------------|--------------------------------------|---|---------------|
| WELL No. MW-1D | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE 03/26/19 |
| SAMPLE No. MW-10 | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: 1025 | SITE: | FIELD CONDITIONS/WEATHER: overcast/sunny, ~60°F | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <input checked="" type="radio"/> locked not locked number: <input checked="" type="radio"/> legible not legible outer casing: <input checked="" type="radio"/> good <input checked="" type="radio"/> fair poor inner casing: <input checked="" type="radio"/> good <input checked="" type="radio"/> fair poor well photographed: yes <input checked="" type="radio"/> no | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | |
|---|---|
| Casing Diameter: (circle one) <input checked="" type="radio"/> 4" <input type="radio"/> 6" Other: | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for 2" = 0.168; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|---|---|

| | |
|--|--|
| Depth to Water (feet): 8.74 Depth of Well (feet): 49.95 Water Column (feet): 41.21 Casing Volume (gallons/ft): 6.72 Calculated Purge Volume (gallons/ft): 20.15 Actual Purge Volume (gallons/ft): 1.15 Pump Intake Depth (feet): ~45 | Measuring Point Elevation (feet): Groundwater Surface Elevation: LNAPL present: thickness: DNAPL present: thickness: Remarks: Ferrous Iron (mg/L): 0.01 |
|--|--|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 0950 | 0 | | | | | | | | PURGE START |
| 0954 | 0.25 | 19.40 | 4.11 | 6.34 | 197.6 | 25 | 0.04 | 9.29 | clear |
| 0958 | 0.50 | 19.53 | 4.41 | 6.34 | 181.6 | 17 | 0.03 | 9.41 | " |
| 1002 | 0.65 | 19.64 | 4.48 | 6.30 | 177.1 | 15 | 0.37 | 9.42 | " |
| 1007 | 0.75 | 19.61 | 4.53 | 6.24 | 171.7 | 15 | 0.00 | 9.45 | " |
| 1011 | 0.85 | 19.64 | 4.58 | 6.36 | 174.4 | 15 | 1.00 | 9.50 | " |
| 1015 | 0.95 | 19.72 | 4.59 | 6.26 | 177.2 | 14 | 0.28 | 9.53 | " |
| 1019 | 1.05 | 19.73 | 4.59 | 6.36 | 179.6 | 14 | 0.00 | 9.53 | " |
| 1025 | 1.15 | SAMPLE | | | ESL | | | | " |

| | | | |
|---|---------------|-----------------|------------------|
| Measurement and Sampling Equipment | | | |
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | Hanna | 556 H198194 | 03/26/19 |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|--------------------|--------------------------------------|--|-------------------|
| WELL No. MW-2D | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE 3/24/19 |
| SAMPLE No. | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | /EarthCon |
| SAMPLE TIME: 10:20 | SITE: | FIELD CONDITIONS/WEATHER | Mostly cloudy 57° |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <input checked="" type="radio"/> locked not locked number: <input checked="" type="radio"/> legible not legible outer casing: <input checked="" type="radio"/> good fair poor inner casing: <input checked="" type="radio"/> good fair poor well photographed: yes <input checked="" type="radio"/> no | Equipment Cleaning Procedures - potable water and phosphate-free soap <input checked="" type="checkbox"/> - potable water rinse <input checked="" type="checkbox"/> - water rinse: <input checked="" type="checkbox"/> distilled deionized - solvent rinse: <input checked="" type="checkbox"/> acetone hexane - air dry <input checked="" type="checkbox"/> |
|--|--|

Casing Diameter: (circle one) 2" 4" 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 4.32 Measuring Point Elevation (feet): _____

Depth of Well (feet): 40.97 Groundwater Surface Elevation: _____

Water Column (feet): 36.65 LNAPL present: N/A thickness: _____

Casing Volume (gallons/liters): 5.97 DNAPL present: N/A thickness: _____

Calculated Purge Volume (gallons/liters): 11.97 Remarks: _____

Actual Purge Volume (gallons/liters): 1.45

Pump Intake Depth (feet): 38 Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 09:35 | 0 | | | | | | | | PURGE START |
| 09:46 | 0.25 | 18.06 | 3.79 | 5.98 | 258.3 | 22 | 0.22 | 7.04 | CLEAR |
| 09:45 | 0.45 | 18.35 | 3.81 | 5.82 | 263.6 | 22 | 0.15 | 7.40 | CLEAR |
| 09:50 | 0.65 | 18.35 | 3.81 | 5.85 | 264.6 | 22 | 0.11 | 7.61 | CLEAR |
| 09:55 | 0.85 | 18.43 | 3.80 | 5.93 | 265.8 | 22 | 0.09 | 7.85 | CLEAR |
| 10:00 | 1.00 | 18.45 | 3.78 | 5.77 | 262.3 | 22 | 0.04 | 8.06 | CLEAR |
| 10:05 | 1.25 | 18.50 | 3.78 | 5.85 | 256.2 | 22 | 0 | 8.19 | CLEAR |
| 10:10 | 1.45 | 18.52 | 3.77 | 5.87 | 254.1 | 22 | 0 | 8.25 | |

Measurement and Sampling Equipment

| | | | |
|------------------|---------------------|------------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YET HANNA TD</u> | <u>558 HI 98174 TD</u> | <u>3/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | <u>3/24/19</u> |
| Peristaltic Pump | Geotech | Geopump | <u>N/A</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

MW-3D

WELL No. MW-3D PROJECT # 02.20160378.00 LOCATION: Blackville, SC DATE 3/27/19
 SAMPLE No. PROJECT NAME: Lennox, Blackville, SC FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon
 SAMPLE TIME: 10:00 SITE: FIELD CONDITIONS/WEATHER Sunny 45°

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one) 2 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 4.107
 Depth of Well (feet): ~~28.12~~ 28.12
 Water Column (feet): 23.43
 Casing Volume (gallons/liters): 3.8
 Calculated Purge Volume (gallons/liters): 11.46
 Actual Purge Volume (gallons/liters): 1.00
 Pump Intake Depth (feet): 25'

Measuring Point Elevation (feet): _____
 Groundwater Surface Elevation: _____
 LNAPL present: N/A thickness: _____
 DNAPL present: N/A thickness: _____
 Remarks: _____
 Ferrous Iron (mg/L): 0.96 mg/L

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|------|-------------------------------|-------------|-------------------------|--------------------|--------------------------|------------------------|
| 09:20 | 0 | | | | | | | | PURGE START |
| 09:25 | 0.15 | 16.39 | 4.44 | 5.47 | 183.7 | 82 | 0 | 4.96 | CLEAR |
| 09:30 | 0.35 | 16.50 | 4.10 | 4.78 | 214.2 | 81 | 0 | 4.96 | CLEAR |
| 09:35 | 0.45 | 16.51 | 4.00 | 4.53 | 226.3 | 82 | 0 | 4.96 | CLEAR |
| 09:40 | 0.55 | 16.60 | 3.99 | 4.39 | 232.6 | 82 | 0 | 4.96 | CLEAR |
| 09:45 | 0.65 | 16.88 | 3.91 | 4.32 | 238.9 | 82 | 0 | 4.96 | clear |
| 09:50 | 0.85 | 16.81 | 3.90 | 4.29 | 242.3 | 81 | 0 | 4.96 | clear |
| 09:55 | 1.00 | 16.82 | 3.89 | 4.28 | 244.0 | 81 | 0 | 4.96 | CLEAR |

Measurement and Sampling Equipment

| | | | |
|------------------|---------------|-----------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | YSI HANNA | 556 → HI98194 | 3/27/19 |
| Turbidity | HF Scientific | Micro TPW 20000 | 3/27/19 |
| Peristaltic Pump | Geotech | Geopump | N/A |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|------------------|----------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|--------------------|--------------------------------------|---|----------------|
| WELL No. MW-4 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE: 03/27/19 |
| SAMPLE No. MW-4 | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | /EarthCon |
| SAMPLE TIME: 14:10 | SITE: | FIELD CONDITIONS/WEATHER: Sunny + windy, ~ 55°F | |

| | | |
|---|--|---|
| Well Condition Inspection (circle one) cover: <input checked="" type="radio"/> locked not locked number: <input checked="" type="radio"/> legible not legible outer casing: good <input checked="" type="radio"/> fair poor inner casing: <input checked="" type="radio"/> good fair poor well photographed: yes <input checked="" type="radio"/> no | | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: <input checked="" type="checkbox"/> distilled deionized - solvent rinse: acetone hexane - air <input checked="" type="checkbox"/> |
|---|--|---|

| | |
|---|---|
| Casing Diameter: (circle one) <input checked="" type="radio"/> 2" 4" 6" Other: _____ | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|---|---|

| | |
|--|---|
| Depth to Water (feet): 6.61 | Measuring Point Elevation (feet): _____ |
| Depth of Well (feet): 20.78 | Groundwater Surface Elevation: _____ |
| Water Column (feet): 14.17 | LNAPL present: _____ thickness: _____ |
| Casing Volume (gallons/liters): 2.31 | DNAPL present: _____ thickness: _____ |
| Calculated Purge Volume (gallons/liters): 6.93 | Remarks: _____ |
| Actual Purge Volume (gallons/liters): 0.85 | |
| Pump Intake Depth (feet): ~15 | Ferrous Iron (mg/L): 0.00 mg/L |

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 13:20 | 0 | | | | | | | | PURGE START |
| 13:25 | 0.15 | 16.95 | 4.62 | 2.02 | 197.3 | 35 | 32.84 | 7.25 | clear |
| 13:30 | 0.35 | 16.64 | 4.14 | 1.72 | 242.2 | 35 | 18.15 | 7.40 | clear |
| 13:35 | 0.45 | 16.52 | 3.97 | 1.65 | 265.5 | 35 | 19.27 | 7.44 | clear |
| 13:40 | 0.55 | 16.59 | 3.65 | 1.61 | 281.3 | 39 | 15.17 | 7.45 | clear |
| 13:45 | 0.65 | 16.57 | 3.63 | 1.54 | 287.3 | 39 | 14.16 | 7.45 | clear |
| 13:50 | 0.75 | 16.58 | 3.62 | 1.59 | 292.1 | 39 | 10.09 | 7.45 | clear |
| 14:00 | 0.85 | 16.57 | 3.62 | 1.88 | 295.9 | 39 | 9.88 | 7.45 | clear |

| Measurement and Sampling Equipment | | | |
|------------------------------------|---------------|-----------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | YSI/HANNA | 556 HI98194 | 03/27/19 |
| Turbidity | HF Scientific | Micro TPW 20000 | |
| Peristaltic Pump | Geotech | Geopump | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|---------------------------|--------------------------------------|--|---------------------|
| WELL No. MW-4D | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE <u>3/29/19</u> |
| SAMPLE No. <u>14</u> | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: <u>13:50</u> | SITE: | FIELD CONDITIONS/WEATHER: <u>Sunny / Windy 55°</u> | |

| | | | |
|--|--|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: <u>distilled</u> deionized - solvent rinse: acetone hexane - air <u>dry</u> | |
|--|--|--|--|

Casing Diameter: (circle one) 2" 4" 6" Other: _____

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 9.30 Measuring Point Elevation (feet): _____

Depth of Well (feet): 78.75 Groundwater Surface Elevation: _____

Water Column (feet): 69.45 LNAPL present: N/A thickness: _____

Casing Volume (gallons/liters): 11.32 DNAPL present: N/A thickness: _____

Calculated Purge Volume (gallons/liters): 34 Remarks: _____

Actual Purge Volume (gallons/liters): 0.65

Pump Intake Depth (feet): 35 Ferrous Iron (mg/L): 0.00

Well Evacuation

Water level recovery is: very slow slow moderate fast

Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|-------------|-------------------------|--------------|----------------------|-----------------|-----------------------|--------------------|
| <u>13:20</u> | <u>0</u> | | | | | | | | PURGE START |
| <u>13:25</u> | <u>0.15</u> | <u>17.19</u> | <u>4.09</u> | <u>2.39</u> | <u>291.4</u> | <u>17</u> | <u>0.60</u> | <u>10.61</u> | <u>clear</u> |
| <u>13:30</u> | <u>0.25</u> | <u>17.74</u> | <u>4.16</u> | <u>1.87</u> | <u>297.0</u> | <u>18</u> | <u>0.10</u> | <u>11.09</u> | <u>clear</u> |
| <u>13:35</u> | <u>0.45</u> | <u>17.81</u> | <u>4.21</u> | <u>1.72</u> | <u>298.2</u> | <u>17</u> | <u>0</u> | <u>11.32</u> | <u>clear</u> |
| <u>13:40</u> | <u>0.55</u> | <u>17.81</u> | <u>4.28</u> | <u>1.62</u> | <u>299.4</u> | <u>18</u> | <u>0</u> | <u>11.75</u> | <u>clear</u> |
| <u>13:45</u> | <u>0.65</u> | <u>17.83</u> | <u>4.20</u> | <u>1.54</u> | <u>311.0</u> | <u>17</u> | <u>0</u> | <u>11.98</u> | <u>clear</u> |

Measurement and Sampling Equipment

| | | | |
|---------------|----------------------|--------------------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YSI HANNA</u> | <u>556 HI98194</u> | <u>3/29/19</u> |
| Turbidity | <u>HF Scientific</u> | <u>Micro TPW 20000</u> | <u>3/27/19</u> |
| Bladder Pump | <u>QED</u> | <u>Well Wizard Micro Purge</u> | <u>N/A</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| <u>3</u> | VOCs | 40 ml glass / HCL | |
| <u>2</u> | 1,4 - Dioxane | 40 ml glass / HCL | |
| <u>2</u> | Diss. Gasses | 40 ml glass / HCL | |
| <u>1</u> | TOC | 250 ml HDPE / H2SO4 | |
| <u>1</u> | NO3/SO4/Cl/Aik | 500 ml HDPE / none | |
| <u>1</u> | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|-------------------|--------------------------------------|--|--------------|
| WELL No. MW-5 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE 3/27/19 |
| SAMPLE No. MW-5 | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: 1600 | SITE: | FIELD CONDITIONS/WEATHER: inside building | |

| | |
|---|--|
| Well Condition: Inspection (circle one) cover: <input checked="" type="radio"/> locked <input type="radio"/> not locked number: <input checked="" type="radio"/> legible <input type="radio"/> not legible outer casing: <input checked="" type="radio"/> good <input type="radio"/> fair <input type="radio"/> poor inner casing: <input checked="" type="radio"/> good <input type="radio"/> fair <input type="radio"/> poor well photographed: <input checked="" type="radio"/> yes <input type="radio"/> no | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|---|--|

| | | |
|--|---|------------|
| Casing Diameter: (circle one) 2" 4" 6" Other: 1" | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 | 1" = 0.045 |
|--|---|------------|

| | |
|---|--|
| Depth to Water (feet): 5.61 | Measuring Point Elevation (feet): |
| Depth of Well (feet): 19.7 | Groundwater Surface Elevation: |
| Water Column (feet): 14.09 | LNAPL present: thickness: |
| Casing Volume (gallons/liters): 0.634 | DNAPL present: thickness: |
| Calculated Purge Volume (gallons/liters): 1.9 | Remarks: |
| Actual Purge Volume (gallons/liters): 1.70 | |
| Pump Intake Depth (feet): ~15 | Ferrous Iron (mg/L): 0.00 |

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|------|-------------------------------|-------------|-------------------------|--------------------|--------------------------|------------------------|
| 1525 | 0 | | | | | | | | PURGE START |
| 1528 | 0.25 | 17.98 | 4.09 | 1.04 | 257.8 | 72 | 110.88 | 5.62 | clear/cloudy |
| 1532 | 0.50 | 18.07 | 4.06 | 0.73 | 233.5 | 70 | 221.17 | 5.62 | clear/cloudy |
| 1537 | 0.70 | 17.96 | 3.98 | 0.70 | 251.3 | 71 | 65.59 | 5.62 | clear/cloudy |
| 1541 | 0.90 | 17.95 | 3.91 | 0.72 | 262.8 | 70 | 16.51 | 5.62 | " |
| 1545 | 1.10 | 17.95 | 3.84 | 0.76 | 274.0 | 70 | 8.74 | 5.62 | clear |
| 1550 | 1.30 | 17.96 | 3.86 | 0.76 | 276.7 | 70 | 6.12 | 5.62 | " |
| 1555 | 1.50 | 17.95 | 3.83 | 0.76 | 276.9 | 70 | 5.92 | 5.62 | " |
| 1600 | SAMPLE | | | | | | | | |

| | | | |
|------------------------------------|---------------|-------------------------|------------------|
| Measurement and Sampling Equipment | | | |
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | yes Hanna | -556 HI 98194 | 03/27/19 |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Bladder Pump | QED | Well Wizard Micro Purge | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|-----------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |
| DUP-2 collected | | | |



Groundwater Sampling Record

| | | | |
|--------------------------|--------------------------------------|--|----------------------|
| WELL No. MW-6R | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE <u>03/26/19</u> |
| SAMPLE No. <u>MW-6R</u> | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon | |
| SAMPLE TIME: <u>1315</u> | SITE: | FIELD CONDITIONS/WEATHER <u>overcast, ~55° F</u> | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | |
|---|---|
| Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____ | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: <u>2" = 0.163</u> ; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|---|---|

| | |
|--|---|
| Depth to Water (feet): <u>1.19</u> Depth of Well (feet): <u>14.3</u> Water Column (feet): <u>13.11</u> Casing Volume (gallons/liters): <u>2.14</u> Calculated Purge Volume (gallons/liters): <u>6.41</u> Actual Purge Volume (gallons/liters): <u>1.40</u> Pump Intake Depth (feet): <u>~9</u> | Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.00</u> |
|--|---|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|-------------|-------------------------------|--------------|-------------------------|--------------------|--------------------------|------------------------|
| <u>1240</u> | <u>0</u> | | | | | | | | PURGE START |
| <u>1244</u> | <u>0.05</u> | <u>15.39</u> | <u>5.10</u> | <u>2.48</u> | <u>55.8</u> | <u>78</u> | <u>12.95</u> | <u>1.25</u> | <u>clear</u> |
| <u>1248</u> | <u>0.15</u> | <u>15.41</u> | <u>5.00</u> | <u>2.04</u> | <u>67.9</u> | <u>77</u> | <u>8.14</u> | <u>1.28</u> | " |
| <u>1252</u> | <u>0.50</u> | <u>15.59</u> | <u>4.85</u> | <u>1.74</u> | <u>87.3</u> | <u>76</u> | <u>5.86</u> | <u>1.30</u> | " |
| <u>1256</u> | <u>0.65</u> | <u>15.67</u> | <u>4.80</u> | <u>1.63</u> | <u>96.2</u> | <u>76</u> | <u>5.80</u> | <u>1.25</u> | " |
| <u>1300</u> | <u>0.85</u> | <u>15.70</u> | <u>4.72</u> | <u>1.48</u> | <u>108.5</u> | <u>75</u> | <u>5.33</u> | <u>1.25</u> | " |
| <u>1304</u> | <u>1.05</u> | <u>15.75</u> | <u>4.68</u> | <u>1.42</u> | <u>114.4</u> | <u>75</u> | <u>4.44</u> | <u>1.25</u> | " |
| <u>1310</u> | <u>1.20</u> | <u>15.73</u> | <u>4.66</u> | <u>1.39</u> | <u>116.2</u> | <u>75</u> | <u>4.04</u> | <u>1.25</u> | " |
| <u>1315</u> | <u>SAMPLE</u> | | | | | | | | |

| Measurement and Sampling Equipment | | | |
|------------------------------------|---------------|-----------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>Hanna</u> | <u>HI 98144</u> | <u>03/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | <u>NA</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|--------------------------|--------------------------------------|--|----------------------|
| WELL No. MW-7 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE <u>03/26/19</u> |
| SAMPLE No. <u>MW-7</u> | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon | |
| SAMPLE TIME: <u>1135</u> | SITE: | FIELD CONDITIONS/WEATHER <u>overcast, ~55°F</u> | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | |
|--|---|
| Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____ | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for <u>2"</u> = 0.163, 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|--|---|

| | |
|---|---|
| Depth to Water (feet): <u>59.75 ETC</u> Depth of Well (feet): <u>11.98</u> Water Column (feet): <u>6.23</u> Casing Volume (gallons/liters): <u>1.02</u> Calculated Purge Volume (gallons/liters): <u>3.05</u> Actual Purge Volume (gallons/liters): <u>0.80</u> Pump Intake Depth (feet): <u>~6</u> | Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.01</u> |
|---|---|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|-------------|-------------------------------|--------------|-------------------------|--------------------|--------------------------|------------------------|
| <u>1100</u> | <u>0</u> | | | | | | | | PURGE START |
| <u>1105</u> | <u>0.10</u> | <u>15.10</u> | <u>5.01</u> | <u>0.68</u> | <u>-43.5</u> | <u>100</u> | <u>6.34</u> | <u>6.30</u> | <u>clear</u> |
| <u>1109</u> | <u>0.20</u> | <u>14.98</u> | <u>5.01</u> | <u>0.32</u> | <u>-47.8</u> | <u>100</u> | <u>4.74</u> | <u>6.55</u> | " |
| <u>1104</u> | <u>0.30</u> | <u>15.25</u> | <u>4.99</u> | <u>0.13</u> | <u>-58.6</u> | <u>102</u> | <u>2.95</u> | <u>6.85</u> | " |
| <u>1118</u> | <u>0.40</u> | <u>15.43</u> | <u>4.99</u> | <u>0.12</u> | <u>-62.5</u> | <u>103</u> | <u>2.29</u> | <u>6.87</u> | " |
| <u>1122</u> | <u>0.50</u> | <u>15.76</u> | <u>5.01</u> | <u>0.06</u> | <u>-68.8</u> | <u>102</u> | <u>2.07</u> | <u>6.87</u> | " |
| <u>1126</u> | <u>0.60</u> | <u>15.72</u> | <u>5.07</u> | <u>0.33</u> | <u>-67.7</u> | <u>101</u> | <u>2.00</u> | <u>6.89</u> | " |
| <u>1130</u> | <u>0.70</u> | <u>15.70</u> | <u>5.07</u> | <u>1.28</u> | <u>-70.0</u> | <u>101</u> | <u>2.06</u> | <u>6.89</u> | " |
| <u>1135</u> | <u>SAMPLE</u> | <u>E</u> | | | | | | | |

| Measurement and Sampling Equipment | | | |
|------------------------------------|------------------|---------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YSL Hanna</u> | <u>556 HI 98194</u> | <u>03/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | <u>N/A</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

WELL No. MW-8 PROJECT # 02.20160378.00 LOCATION: Blackville, SC DATE 3/26/19
 SAMPLE No. 14:40 PROJECT NAME: Lennox, Blackville, SC FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon
 SAMPLE TIME: 14:40 SITE: FIELD CONDITIONS/WEATHER P/Cloudy 520

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one) 2" 4" 6" Other: 1"
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ 0.065
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 0.33 Measuring Point Elevation (feet):
 Depth of Well (feet): 12 Groundwater Surface Elevation:
 Water Column (feet): 11.62 11.93 11.72 LNAPL present: N/A thickness:
 Casing Volume (gallons/liters): 1.89 0.76 DNAPL present: N/A thickness:
 Calculated Purge Volume (gallons/liters): 6.6 2.25 Remarks:
 Actual Purge Volume (gallons/liters): 1.45
 Pump Intake Depth (feet): 9 Ferrous Iron (mg/L): 2.96 mg/L

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 11:00 | 0 | | | | | | | | PURGE START |
| 11:05 | 0.25 | 15.81 | 3.99 | 1.57 | 113.5 | 122 | 27.12 | 5.10 | P/Cloudy |
| 11:10 | 0.45 | 15.85 | 4.00 | 0.90 | 108.5 | 121 | 13.76 | 4.40 | P/Cloudy |
| 11:15 | 0.65 | 16.52 | 3.96 | 1.57 | 96.7 | 107 | 4.00 | 10.41 | CLEAR |
| 11:20 | 0.85 | 16.68 | 4.14 | 3.09 | 83.8 | 110 | 3.00 | 10.60 | CLEAR |
| 11:25 | 1.00 | 16.80 | 4.36 | 7.69 | 75.9 | 118 | 2.98 | 10.61 | CLEAR |
| 11:30 | 1.25 | 17.49 | 4.32 | 8.54 | 72.5 | 106 | 3.82 | 10.61 | CLEAR |
| 11:35 | 1.45 | 17.52 | 4.60 | 8.74 | 70.5 | 104 | 2.66 | 11.59 | CLOUDY |

Measurement and Sampling Equipment

| | | | |
|------------------|--------------------|---------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>yes - HANNA</u> | <u>-556 H198194</u> | <u>3/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | <u>3/26/19</u> |
| Peristaltic Pump | Geotech | Geopump | <u>N/A</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|-------------------|--------------------------------------|---|---------------|
| WELL No. MW-10 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE 03/27/19 |
| SAMPLE No. MW-10 | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: 1025 | SITE: | FIELD CONDITIONS/WEATHER Sunny + windy, ~50°F | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | | |
|---|---|-------------------|
| Casing Diameter: (circle one) 2" 4" <u>6"</u> Other: <u>1"</u> | Casing Volume Calculation: ($\pi r^2 h$)(7.48 gal/ft³) Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 | <u>1" = 0.045</u> |
|---|---|-------------------|

| | |
|--|---|
| Depth to Water (feet): <u>3.91</u> | Measuring Point Elevation (feet): _____ |
| Depth of Well (feet): <u>12.33</u> | Groundwater Surface Elevation: _____ |
| Water Column (feet): <u>8.42</u> | LNAPL present: _____ thickness: _____ |
| Casing Volume (gallons/liters): <u>3.79</u> | DNAPL present: _____ thickness: _____ |
| Calculated Purge Volume (gallons/liters): <u>1.137</u> | Remarks: _____ |
| Actual Purge Volume (gallons/liters): <u>1.30</u> | |
| Pump Intake Depth (feet): <u>~8</u> | Ferrous Iron (mg/L): <u>0.00</u> |

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|------|-------------------------------|-------------|-------------------------|--------------------|--------------------------|------------------------|
| 0950 | 0 | | | | | | | | *PURGE START |
| 0955 | 0.20 | 16.17 | 4.60 | 1.17 | 130.9 | 36 | 23.13 | 4.05 | clear |
| 1000 | 0.40 | 16.07 | 4.41 | 0.67 | 138.4 | 37 | 10.97 | 4.05 | " |
| 1005 | 0.60 | 16.10 | 4.32 | 0.59 | 136.0 | 37 | 8.01 | 4.06 | " |
| 1009 | 0.75 | 16.01 | 4.24 | 0.56 | 139.9 | 38 | 6.27 | 4.06 | " |
| 1014 | 0.90 | 16.09 | 4.11 | 0.57 | 146.9 | 38 | 5.09 | 4.06 | " |
| 1020 | 1.10 | 16.19 | 4.03 | 0.60 | 152.2 | 38 | 4.93 | 4.06 | " |
| 1025 | SAMPLE | | | | | | | | |

| Measurement and Sampling Equipment | | | |
|------------------------------------|------------------|--------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YSI Hanna</u> | <u>556 H198194</u> | <u>03/27/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Aik | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

WELL No. MW-11 PROJECT # 02.20160378.00 LOCATION: Blackville, SC DATE 03/27/19
 SAMPLE No. MW-11 PROJECT NAME: Lennox, Blackville, SC FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon
 SAMPLE TIME: 1220 SITE: FIELD CONDITIONS/WEATHER

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one)
 2" 4" 6" other: 1"

Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

1" = 0.045

Depth to Water (feet): 6.55 Measuring Point Elevation (feet): _____
 Depth of Well (feet): 9.59 Groundwater Surface Elevation: _____
 Water Column (feet): 3.04 LNAPL present: _____ thickness: _____
 Casing Volume (gallons/liters): .137 DNAPL present: _____ thickness: _____
 Calculated Purge Volume (gallons/liters): .411 Remarks: _____
 Actual Purge Volume (gallons/liters): 0.35
 Pump Intake Depth (feet): ~5 Ferrous Iron (mg/L): 0.00

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|------|-------------------------------|-------------|-------------------------|--------------------|--------------------------|------------------------|
| 1140 | 0 | | | | | | | | PURGE START |
| 1145 | 0.05 | 17.97 | 4.58 | 5.01 | 110.0 | 101 | 36.46 | 6.70 | clear |
| 1150 | 0.10 | 18.08 | 4.64 | 5.38 | 103.0 | 103 | 31.50 | 6.64 | " |
| 1155 | 0.15 | 18.42 | 4.76 | 5.55 | 87.9 | 108 | 20.51 | 6.65 | " |
| 1200 | 0.20 | 18.55 | 4.84 | 5.18 | 78.8 | 112 | 15.66 | 6.65 | " |
| 1205 | 0.25 | 18.64 | 4.86 | 5.32 | 76.5 | 115 | 10.23 | 6.65 | " |
| 1210 | 0.28 | 18.70 | 4.90 | 5.32 | 74.3 | 117 | 9.88 | 6.65 | " |
| 1215 | 0.32 | 18.76 | 4.92 | 5.32 | 73.7 | 117 | 7.65 | 6.65 | " |
| 1220 | SAMPLE | | | | | | | | |

Measurement and Sampling Equipment

| | | | |
|------------------|-----------------|----------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YS Hanna</u> | <u>-568 HI 98194</u> | <u>03/27/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | <u>NA</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/AIK | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|-------------------|--------------------------------------|--|--------------|
| WELL No. MW-14 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE 3/27/19 |
| SAMPLE No. | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon | |
| SAMPLE TIME: 0910 | SITE: | FIELD CONDITIONS/WEATHER | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | | |
|--|---|-------------------|
| Casing Diameter: (circle one) 2" 4" 6" <u>Other: 1"</u> | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163; 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 | <u>1" = 0.045</u> |
|--|---|-------------------|

| | |
|--|---|
| Depth to Water (feet): <u>6.68 58 ETC</u> Depth of Well (feet): 13.41 Water Column (feet): <u>6.83</u> Casing Volume (gallons/liters): <u>.307</u> Calculated Purge Volume (gallons/liters): <u>.922</u> Actual Purge Volume (gallons/liters): <u>0.90</u> Pump Intake Depth (feet): <u>~8</u> | Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.17</u> |
|--|---|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 0840 | 0 | | | | | | | | PURGE START |
| 0843 | 0.05 | 14.46 | 4.40 | 1.91 | 129.8 | 59 | 6.56 | 6.60 | clear |
| 0847 | 0.20 | 14.61 | 3.88 | 0.71 | 114.6 | 52 | 5.25 | 6.60 | " |
| 0851 | 0.40 | 14.62 | 3.87 | 0.63 | 104.1 | 52 | 3.53 | 6.60 | " |
| 0856 | 0.55 | 14.61 | 3.88 | 0.55 | 96.9 | 49 | 3.19 | 6.60 | " |
| 0900 | 0.65 | 14.86 | 3.84 | 0.50 | 97.4 | 48 | 1.02 | 6.60 | " |
| 0905 | 0.85 | 15.02 | 3.81 | 0.49 | 98.6 | 46 | | 6.60 | " |
| 0910 | SAMPLE | | | | | | | | |

| Measurement and Sampling Equipment | | | |
|------------------------------------|---------------|---------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>Hanna</u> | <u>556 HI 98194</u> | <u>3/27/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

| | | | |
|-------------------|--------------------------------------|--|----------------|
| WELL No. MW-15 | PROJECT # 02.20160378.00 | LOCATION: Blackville, SC | DATE: 03/26/19 |
| SAMPLE No. MW-15 | PROJECT NAME: Lennox, Blackville, SC | FIELD PERSONNEL/COMPANY: T. Messier, E. Cook | |
| SAMPLE TIME: 1420 | SITE : | FIELD CONDITIONS/WEATHER | |

| | |
|--|--|
| Well Condition Inspection (circle one) cover: <u>locked</u> not locked number: <u>legible</u> not legible outer casing: <u>good</u> fair poor inner casing: <u>good</u> fair poor well photographed: yes <u>no</u> | Equipment Cleaning Procedures - potable water and phosphate-free soap - potable water rinse - water rinse: distilled deionized - solvent rinse: acetone hexane - air dry |
|--|--|

| | |
|---|---|
| Casing Diameter: (circle one) <u>2"</u> 4" 6" Other: _____ | Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$ Casing Volume (gallons/ft) for: 2" = 0.163, 4" = 0.653; 6" = 1.47 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56 |
|---|---|

| | |
|--|---|
| Depth to Water (feet): <u>6.09</u> Depth of Well (feet): <u>21.81</u> Water Column (feet): <u>15.72</u> Casing Volume (gallons/liters): <u>2.56</u> Calculated Purge Volume (gallons/liters): <u>7.69</u> Actual Purge Volume (gallons/liters): <u>1.40</u> Pump Intake Depth (feet): <u>~15</u> | Measuring Point Elevation (feet): _____ Groundwater Surface Elevation: _____ LNAPL present: _____ thickness: _____ DNAPL present: _____ thickness: _____ Remarks: _____ Ferrous Iron (mg/L): <u>0.00</u> |
|--|---|

Well Evacuation
 Water level recovery is: very slow slow moderate fast
 Bailed dry: yes no

| TIME 2400 hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/ REMARKS |
|------------------|----------------------------|---------------------|------|-------------------------------|-------------|-------------------------|--------------------|--------------------------|------------------------|
| 1340 | 0 | | | | | | | | PURGE START |
| 1345 | 0.10 | 17.29 | 4.99 | 1.29 | 130.5 | 95 | 24.85 | 6.26 | clear |
| 1349 | 0.20 | 17.50 | 4.98 | 0.46 | 129.5 | 94 | 11.51 | 6.25 | w/ orange |
| 1353 | 0.30 | 17.77 | 4.97 | 0.35 | 130.5 | 94 | 5.26 | 6.25 | flakes |
| 1358 | 0.50 | 18.03 | 4.96 | 0.32 | 132.9 | 94 | 3.10 | 6.26 | " |
| 1403 | 0.70 | 17.99 | 4.96 | 0.28 | 133.9 | 93 | 3.17 | 6.26 | " |
| 1407 | 0.90 | 17.99 | 4.96 | 0.27 | 134.7 | 93 | 1.12 | 6.26 | " |
| 1412 | 1.15 | 17.99 | 4.96 | 0.25 | 135.6 | 92 | 0.99 | 6.26 | " |
| 1420 | SAMPLE | | | | | | | | |

| Measurement and Sampling Equipment | | | |
|------------------------------------|---------------|---------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>Hanna</u> | <u>555 HI 98194</u> | <u>03/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | " |
| Peristaltic Pump | Geotech | Geopump | NA |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/Cl/Aik | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |



Groundwater Sampling Record

WELL No. MW-2/16 PROJECT # 02.20160378.00 LOCATION: Blackville, SC DATE 3/26/19
 SAMPLE No. PROJECT NAME: Lennox, Blackville, SC FIELD PERSONNEL/COMPANY: T. Messier, E. Cook /EarthCon
 SAMPLE TIME: 14:40 SITE: FIELD CONDITIONS/WEATHER N/CLOUDY 59°

Well Condition Inspection (circle one)
 cover: locked not locked
 number: legible not legible
 outer casing: good fair poor
 inner casing: good fair poor
 well photographed: yes no

Equipment Cleaning Procedures
 - potable water and phosphate-free soap
 - potable water rinse
 - water rinse: distilled deionized
 - solvent rinse: acetone hexane
 - air dry

Casing Diameter: (circle one) 2" 4" 6" Other: _____
 Casing Volume Calculation: $(\pi r^2 h)(7.48 \text{ gal/ft}^3)$
 Casing Volume (gallons/ft) for: 2" = 0.163, 4" = 0.653; 6" = 1.47
 Casing Volume (liters/ft) for: 2" = 0.618; 4" = 2.47; 6" = 5.56

Depth to Water (feet): 3.91 Measuring Point Elevation (feet): _____
 Depth of Well (feet): 47.00 - 22.42 Groundwater Surface Elevation: _____
 Water Column (feet): 18.51 LNAPL present: N/A thickness: _____
 Casing Volume (gallons/liters): 3.01 DNAPL present: N/A thickness: _____
 Calculated Purge Volume (gallons/liters): 15.0 Remarks: _____
 Actual Purge Volume (gallons/liters): 1.65
 Pump Intake Depth (feet): 19 Ferrous Iron (mg/L): 0.00 mg/L

Well Evacuation
 Water level recovery is: very slow slow moderate fast Bailed dry: yes no

| TIME 2400,hrs | CUMULATIVE VOLUME (gal) | TEMPERATURE (°C) | pH | DISSOLVED OXYGEN (mg/L) | ORP (mV) | CONDUCTIVITY (µs/cm) | TURBIDITY (NTU) | Depth to Water (Feet) | ODOR/COLOR/REMARKS |
|---------------|-------------------------|------------------|------|-------------------------|----------|----------------------|-----------------|-----------------------|--------------------|
| 13:45 | 0 | | | | | | | | PURGE START |
| 13:50 | 0.25 | 16.61 | 3.43 | 4.19 | 324.9 | 104 | 43.33 | 4.12 | CLEAR |
| 13:55 | 0.45 | 16.78 | 3.34 | 4.02 | 358.8 | 103 | 58.33 | 4.12 | P/CLOUDY |
| 14:00 | 0.65 | 16.84 | 3.33 | 3.99 | 365.9 | 102 | 87.78 | 4.12 | P/CLOUDY |
| 14:05 | 0.85 | 16.88 | 3.34 | 3.97 | 379.4 | 102 | 77.16 | 4.12 | P/CLOUDY |
| 14:10 | 1.00 | 16.92 | 3.34 | 3.89 | 386.0 | 102 | 62.56 | 4.12 | P/CLOUDY |
| 14:15 | 1.10 | 16.93 | 3.34 | 3.88 | 389.1 | 102 | 37.82 | 4.12 | CLOUDY |
| 14:20 | 1.20 | 16.94 | 3.34 | 3.85 | 390.7 | 102 | 22.43 | 4.12 | CLOUDY |
| 14:25 | 1.45 | 16.91 | 3.35 | 3.83 | 392.8 | 102 | 16.24 | 4.12 | CLEAR |
| 14:30 | 1.65 | 17.03 | 3.35 | 3.82 | 394.3 | 102 | 9.78 | 4.12 | CLEAR |

Measurement and Sampling Equipment

| | | | |
|------------------|------------------|---------------------|------------------|
| Type | Manufacturer | Model # | Calibration Date |
| Water Quality | <u>YSI HANNA</u> | <u>556 HI 98194</u> | <u>3/26/19</u> |
| Turbidity | HF Scientific | Micro TPW 20000 | <u>3/26/19</u> |
| Peristaltic Pump | Geotech | Geopump | <u>N/A</u> |

| SAMPLE NUMBER | ANALYTICAL METHOD | BOTTLE TYPE/ PRESERVATIVES | QA REMARKS |
|---------------|-------------------|--------------------------------|------------|
| 3 | VOCs | 40 ml glass / HCL | |
| 3 | 1,4 - Dioxane | 40 ml glass / HCL | |
| 2 | Diss. Gasses | 40 ml glass / HCL | |
| 1 | TOC | 250 ml HDPE / H2SO4 | |
| 1 | NO3/SO4/C/Alk | 500 ml HDPE / none | |
| 3 | Sulfide | 250 ml HDPE / ZnAcetate + NaOH | |

Appendix C

Groundwater Elevations Summary

APPENDIX C: GROUNDWATER ELEVATIONS SUMMARY

| Well Location | May-00 | Apr-01 | Jun-01 | Jul-01 | Mar-02 | Jun-02 | Dec-02 | Jan-03 | Mar-03 | Jun-03 | Aug-03 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MW-1 | 273.81 | 275.70 | na | na | 274.80 | 273.04 | 274.85 | 274.97 | 276.00 | 276.34 | 275.87 |
| MW-2 | 272.05 | na | na | 273.05 | 273.43 | 270.68 | 273.56 | 273.24 | 274.02 | 274.02 | 274.03 |
| MW-3 | 273.66 | na | na | 274.27 | 273.85 | 272.30 | 273.86 | 273.98 | 274.96 | 275.87 | 275.45 |
| MW-4 | 269.20 | na | na | 272.81 | 273.32 | 269.13 | 273.71 | 273.40 | 274.68 | 275.59 | 273.69 |
| MW-5 | na | na | na | na | na | na | na | na | na | na | na |
| MW-6/MW-6R | na | 275.80 | na | 275.33 | 274.69 | 273.38 | 277.03 | na | na | na | na |
| MW-7 | na | 275.98 | 275.03 | na | 275.05 | 273.09 | 274.77 | 275.25 | 276.02 | 276.43 | 276.07 |
| MW-8 | na | 276.20 | 275.78 | na | 274.64 | 273.17 | 275.27 | 275.64 | 276.18 | 276.53 | 276.03 |
| MW-9 | na | na | 273.95 | na | 273.72 | 271.64 | 274.56 | 273.98 | 275.08 | 275.25 | 274.78 |
| MW-10 | na | na | na | 272.06 | 272.54 | 272.03 | 272.66 | 272.58 | 272.89 | 273.17 | 272.93 |
| MW-11 | na | na | na | 274.41 | 275.86 | 275.66 | 275.84 | 275.12 | 276.03 | 276.09 | 275.87 |
| MW-12 | na | na | na | 267.80 | 269.87 | 269.89 | 269.98 | 269.93 | 270.03 | 270.29 | 270.37 |
| MW-13 | na | na | na | na | na | na | 272.50 | 272.47 | 272.59 | 272.80 | 272.83 |
| MW-14 | na | na | na | na | na | na | 272.68 | 272.61 | 272.97 | 273.32 | 272.97 |
| MW-15 | na | na | na | na | na | na | na | na | na | na | na |
| MW-16 | na | na | na | na | na | na | na | na | na | na | na |

Notes:

na - not available
nm - not measured

APPENDIX C: GROUNDWATER ELEVATIONS SUMMARY

| Well Location | Feb-04 | Jun-04 | Oct-04 | Feb-05 | Sep-06 | Mar-07 | Sep-07 | Dec-07 | Jan-08 | Mar-08 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MW-1 | 276.20 | 274.13 | 273.84 | 275.59 | 274.28 | 275.22 | 274.27 | 275.24 | 275.65 | 275.98 |
| MW-2 | 274.03 | 273.11 | 273.86 | 274.03 | 271.64 | na | na | 274.12 | 274.38 | na |
| MW-3 | 275.47 | 274.04 | 274.55 | 274.58 | 274.10 | 274.66 | 273.89 | 273.94 | 274.46 | 275.05 |
| MW-4 | 275.96 | 270.31 | 272.75 | 270.90 | 271.97 | 274.72 | 272.62 | 274.22 | 274.35 | 274.70 |
| MW-5 | na | na | na | na | na | na | na | na | na | na |
| MW-6/MW-6R | na | na | na | na | na | na | na | na | na | na |
| MW-7 | 276.33 | 274.55 | 274.98 | 274.91 | 274.28 | 274.13 | 275.67 | na | na | 276.26 |
| MW-8 | 276.78 | 274.51 | 275.33 | 276.46 | 274.48 | 276.05 | 274.82 | na | na | 276.40 |
| MW-9 | 275.22 | 272.86 | 273.77 | 274.64 | 272.96 | 274.18 | 272.87 | na | na | 275.08 |
| MW-10 | 273.25 | 272.40 | 272.95 | 273.20 | 272.98 | 273.53 | 273.50 | na | na | 273.70 |
| MW-11 | 276.18 | 275.87 | 275.83 | 275.97 | 275.48 | 275.83 | 275.38 | na | na | 274.32 |
| MW-12 | 270.43 | 270.17 | 270.42 | 270.61 | 270.67 | na | na | na | na | na |
| MW-13 | 272.92 | 272.68 | 272.98 | 273.08 | na | na | na | na | na | na |
| MW-14 | 273.50 | 272.46 | 273.02 | 273.33 | 272.97 | 273.57 | 272.99 | na | na | 273.86 |
| MW-15 | na | na | na | na | na | na | na | na | na | na |
| MW-16 | na | na | na | na | na | na | na | na | na | na |

Notes:

na - not available
nm - not measured

APPENDIX C: GROUNDWATER ELEVATIONS SUMMARY

| Well Location | Sep-08 | Apr-09 | Sep-09 | Mar-10 | Oct-10 | Sep-12 | Jan-17 | Oct-17 | Mar-18 | Oct-18 | Mar-19 |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| MW-1 | 273.55 | 273.68 | 272.76 | 276.00 | 274.94 | 273.29 | 276.29 | 274.60 | 276.12 | 276.38 | 275.89 |
| MW-2 | 273.27 | 274.49 | 273.63 | 274.63 | 274.02 | 272.85 | nm | 272.98 | 274.90 | 274.89 | 274.59 |
| MW-3 | 272.05 | 275.32 | 273.27 | 275.44 | 274.34 | 272.95 | 275.76 | 274.00 | 275.23 | 275.53 | 275.56 |
| MW-4 | 271.14 | 274.27 | 270.64 | 274.30 | 273.19 | 270.80 | 274.83 | 270.51 | 273.56 | 275.24 | 273.11 |
| MW-5 | na | na | na | na | na | na | nm | 272.81 | 274.46 | 274.53 | 273.24 |
| MW-6/MW-6R | na | na | na | na | na | 273.52 | 276.37 | 274.95 | 276.30 | 276.89 | 276.36 |
| MW-7 | 274.70 | 276.14 | 272.72 | 275.60 | 275.06 | 272.63 | 276.71 | 274.92 | 276.14 | 276.57 | 275.74 |
| MW-8 | 273.79 | 276.70 | 272.68 | 277.02 | 275.44 | 273.75 | nm | 274.58 | 276.51 | 276.37 | 276.45 |
| MW-9 | 272.06 | 274.81 | 271.74 | 274.97 | 273.62 | na | nm | nm | nm | nm | nm |
| MW-10 | 272.69 | 273.59 | 273.38 | 273.59 | 273.45 | 271.50 | 273.06 | 271.88 | 274.24 | 274.29 | 274.13 |
| MW-11 | na | 275.44 | 274.75 | 275.30 | 275.14 | 271.54 | 273.40 | 272.30 | 274.14 | 274.15 | 273.99 |
| MW-12 | na | na | na | na | na | na | nm | nm | nm | nm | nm |
| MW-13 | na | na | na | na | na | na | nm | nm | nm | nm | nm |
| MW-14 | 272.83 | 273.64 | 272.31 | 273.68 | 273.43 | 271.62 | 273.57 | 272.27 | 274.29 | 274.35 | 274.22 |
| MW-15 | na | na | na | na | na | na | 276.41 | 275.49 | 275.82 | 276.73 | 276.70 |
| MW-16 | na | na | na | na | na | na | nm | 273.67 | 274.08 | 274.55 | 274.47 |

Notes:

na - not available
nm - not measured

Prepared By: JLF 4/12/19

Checked By: CDN 4/15/19

Appendix D

**Data Validation Summary and
Laboratory Analytical Reports – March 2019**

Data Validation Summary

MEMORANDUM

DATE: April 29, 2019
TO: Carol Northern
FROM: Mary Ann Brookshire and Jordan French
SUBJECT: Quality Assurance Review
PROJECT: Lennox International
SAMPLING DATES: March 26 and 27, 2019
PROJECT NUMBER: 02.20160378.00

1.0 Introduction

This quality assurance review presents the cursory validation of the sample analyses listed in Table 1. The analyses were performed by Shealy Environmental Services, Inc. located in Columbia, South Carolina.

The criteria used to qualify data are from the *Contract Laboratory Program National Functional Guidelines for Inorganic and Organic Data Review* (USEPA 2010 and 2008), the analytical methods, or the professional judgment of the validation chemist. The following laboratory deliverables were reviewed during the validation process:

- Chain-of-custody (COC) documentation to assess holding times and verify report completeness
- Laboratory quality control (QC) sample results, including method blanks, surrogate spikes, laboratory control samples (LCS), matrix spike/matrix spike duplicates (MS/MSD), and laboratory duplicates
- Analytical results to verify reporting limits
- Field QC samples to assess field blank contamination and field duplicate precision

Field duplicate precision is presented in Table 2 and the qualified data are summarized in Section 5 of this memorandum. Data qualifier flags have been added to the attached sample results and database files.

Table 1—Sample Data Reviewed

| Sample ID | Laboratory ID | VOA^a |
|------------------|----------------------|------------------------|
| MW-6R | UC26059-001 | X |
| MW-8 | UC26059-002 | X |
| MW-15 | UC26059-003 | X |
| MW-16 | UC26059-004 | X |
| TB-02 | UC26059-005 | X |
| MW-1 | UC26062-001 | X |
| MW-1D | UC26062-002 | X |
| MW-2 | UC26062-003 | X |
| MW-2D | UC26062-004 | X |
| DUP-01 | UC26062-005 | X |
| MW-7 | UC26062-006 | X |
| TB-01 | UC26062-007 | X |
| MW-10 | UC27069-001 | X |
| MW-14 | UC27069-002 | X |
| MW-3 | UC27069-003 | X |
| MW-3D | UC27069-004 | X |
| TB-01 | UC27069-005 | X |
| MW-4 | UC27071-001 | X |
| MW-4D | UC27071-002 | X |
| MW-5 | UC27071-003 | X |
| DUP-02 | UC27071-004 | X |
| TB-02 | UC27071-005 | X |
| MW-11 | UC27071-006 | X |

^a Volatile Organic Compounds by Method 8260B and 8260B SIM (USEPA 1996)

2.0 Data Validation Findings

2.1 Custody, Preservation, and Completeness

Sample custody was maintained as required from sample collection to receipt at the laboratory. The samples were received intact and were properly preserved. The reports are complete and contain results for the samples and tests requested on the COC forms.

2.2 Volatile Organic Analyses by Methods 8260B and 8260B SIM

2.2.1 Holding Times

The samples were analyzed within the required holding time of 14 days from collection.

2.2.2 Blank Analyses

2.2.2.1 Method Blanks

Method blanks were analyzed at the required frequency. Target analytes were not detected above the method detection limits (MDLs) in the method blank samples.

2.2.2.2 Field Blanks

Four trip blanks are associated with the samples. Target analytes were not detected above the MDL in the blank samples with the following exceptions.

- Acetone was detected at concentrations of 3.4 µg/L, 2.8 µg/L, and 5.9 µg/L in three of the four trip blanks shipped with samples on March 26 and 27, 2019.

Functional Guidelines prescribes three qualification schemes for blank contamination; (1) associated sample concentrations greater than the action level (five times the blank concentration) are not qualified, (2) associated sample concentrations less than the action level and greater than the reporting limit are qualified as undetected (U) at the reported value, and (3) associated sample concentrations less than the action level and less than the reporting limit are qualified as undetected (U) at the reporting limit. Data are qualified as outlined in Section 5.

2.2.3 Surrogate Analyses

Surrogate compounds were added to samples, blanks, and QC samples as required. The recovery values are within the laboratory QC limits.

2.2.4 Matrix Spike/Matrix Spike Duplicate Analyses

MS/MSD analyses were reported as required with the following exception. The recovery and relative percent difference (RPD) values are within the laboratory QC limits for the reported MS/MSD analyses.

- Samples in batch UQ11807 were not analyzed with a MS/MSD due to an instrument error. The LCS criteria were met and the LCS data were reported. Data qualification was not required as MS/MSD data were obtained from other batches reviewed.

2.2.5 Laboratory Control Sample Analyses

Laboratory control samples were analyzed as required. The recovery values of target analytes in the LCS are within the laboratory QC limits with the following exceptions.

- The recovery value for dichlorodifluoromethane in the LCS sample associated with analytical batch 11807 is 153 percent, which exceeds the laboratory QC limits of 60 to 140 percent. Data qualification is not required as the bias is high and the associated sample results are non-detect.
- The recovery value for acetone in the LCS sample associated with analytical batch 12007 is 192 percent, which exceeds the laboratory QC limits of 60 to 140 percent. The associated detected results are qualified as estimated (J) and may be biased high. The associated non-detect sample results are not qualified. Data are qualified as outlined in Section 5.

2.2.6 Laboratory Reporting Limits

The laboratory practical quantitation limits (PQL) are consistent with method reporting limits.

2.2.7 Field Duplicates

Two field duplicate pairs (MW-1/DUP-01 and MW-5/DUP-02) were collected. Each of the RPD values for the MW-5/DUP-02 pair is within the QC guideline of 30 for groundwater samples as shown in the table below. The RPD results for ethylbenzene, vinyl chloride, and total xylenes between samples MW-1 and DUP-01 exceed the QC guideline resulting in qualification of these results for samples MW-1 and DUP-01 as estimated (J).

| Sample ID | Duplicate ID | Analyte | Units | Sample Value | Duplicate Value | RPD |
|--------------------------|--------------|--------------------------|-------|--------------|--------------------|------|
| MW-1 | DUP-01 | cis-1,2-Dichloroethene | µg/L | 1400 | 1900 | 30 |
| | | trans-1,2-Dichloroethene | | 4.8 J | 6.4 J | NC |
| | | Ethylbenzene | | 32 | 79 | 85 |
| | | Tetrachloroethene | | 4.9 J | 4.3 J | NC |
| | | Trichloroethene | | 6.3 J | 5.6 J | NC |
| | | Vinyl Chloride | | 33 | 57 | 53 |
| | | Total Xylenes | | 200 | 470 | 81 |
| | | MW-5 | | DUP-02 | 1,1-Dichloroethane | µg/L |
| cis-1,2-Dichloroethene | 320 | | 310 | | 3.2 | |
| trans-1,2-Dichloroethene | 2.9 J | | 2.8 J | | NC | |
| Tetrachloroethene | 130 | | 120 | | 8.0 | |
| Trichloroethene | 250 | | 240 | | 4.1 | |
| Vinyl Chloride | 3.5 J | | 3.3 J | | NC | |
| 1,4-Dioxane | 9.7 | | 11 | | 12 | |

NC – not calculable. One or both results are below the limit of quantitation

2.2.8 Overall Assessment of Data Usability

The usability of the data is based on the EPA guidance documents noted previously. Upon consideration of the information presented here; the data are acceptable with qualification.

3.0 Data Qualifier Definitions

3.1 Inorganic Data Qualifiers

The following data validation qualifiers were used in the review of this data set. These qualifiers are from the *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*.

- U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J The associated value is an estimated quantity.
- UJ The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

R The data are unusable. (Note: Analyte may or may not be present)

3.2 Organic Data Qualifiers

The following data validation qualifiers were used in the review of this data set. These qualifiers are from the *Contract Laboratory Program National Functional Guidelines for Organic Data Review*.

- U The analyte was analyzed for but not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification”.
- NJ The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the samples and meet quality control criteria. The presence or absence of the analyte cannot be verified.

4.0 References

USEPA. 1996. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846) Third Edition, Updates I, II, IIA, IIB, and III. United States Environmental Protection Agency. Office of Solid Waste. December 1996.

USEPA. 1999a. Methods and Guidance for Analysis of Water, Version 2.0. United States Environmental Protection Agency Office of Science and Technology. EPA 821-C-99-004. CD ROM. June 1999.

USEPA. 2008. Contract Laboratory Program National Functional Guidelines for Organic Data Review. U.S. Environmental Protection Agency Office of Emergency and Remedial Response. EPA540/R-99/008. June 2008.

USEPA. 2010. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. United States Environmental Protection Agency. Office of Solid Waste and Emergency Response. January 2010.

5.0 Summary of Data Qualification

The following data qualifier flags were applied to the sample results.

| Sample ID | Analyte | Qualifier | Reason for Qualification |
|---------------|----------------|-----------|---|
| MW-1D | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-2 | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-2D | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-10 | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-14 | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-3D | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-4 | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-4D | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| MW-11 | Acetone | U at LOQ | Constituent in trip blank; result below LOQ |
| TB-02 | Acetone | J | LCS %R > QC limit |
| (UC27071-005) | | | |
| MW-1 | Ethylbenzene | J | Field duplicate RPD > QC limit |
| DUP-01 | Ethylbenzene | J | Field duplicate RPD > QC limit |
| MW-1 | Vinyl Chloride | J | Field duplicate RPD > QC limit |
| DUP-01 | Vinyl Chloride | J | Field duplicate RPD > QC limit |
| MW-1 | Total Xylenes | J | Field duplicate RPD > QC limit |
| DUP-01 | Total Xylenes | J | Field duplicate RPD > QC limit |

PQL – practical quantitation limit
 MDL – method detection limit

Description: MW-6R

Matrix: Aqueous

Date Sampled: 03/26/2019 1315

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0405 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1158 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1158 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1158 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0051 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 1.9 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 3.6 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 18 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2 | 5030B | 8260B | 1 | 04/02/2019 0236 | MNS | | 11939 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 7.7 | J | 20 | 2.0 | ug/L | 2 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 2 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 2 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 2 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 2 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 2 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |

TOC Range: 17.967 - 18.624

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

JLF
4/29/19

Description: MW-6R

Matrix: Aqueous

Date Sampled: 03/26/2019 1315

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2 | 5030B | 8260B | 1 | 04/02/2019 0236 | MNS | | 11939 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 2 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 2 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 2 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 2 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 2 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |

| Surrogate | Q | Run 2 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 102 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 103 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1450 | ECB | | 11423 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 4/29/19

Description: MW-6R

Matrix: Aqueous

Date Sampled: 03/26/2019 1315

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1258 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 4/29/19

Description: MW-8

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0414 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1224 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1224 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1224 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0125 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 3.4 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 97 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | 1.1 | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 12 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1541 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 11 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 12.008 - 12.591

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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JLF
4/29/19

Description: MW-8

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1541 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1515 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is) | 3.2 | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: MW-8

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1320 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|----------------|----------------|-------------------|------------|---|-----------|------------|-------------|----------|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 100 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 4/29/19

Description: MW-15

Matrix: Aqueous

Date Sampled: 03/26/2019 1420

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0420 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1342 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1342 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1342 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0159 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 27 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 4.5 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.13 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 13 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.52 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1603 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 2.7 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.47 - 0.568

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
4/29/19

Description: MW-15

Matrix: Aqueous

Date Sampled: 03/26/2019 1420

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1603 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1539 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
4/29/19

Description: MW-15

Matrix: Aqueous

Date Sampled: 03/26/2019 1420

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 96 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1334 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-16

Matrix: Aqueous

Date Sampled: 03/26/2019 1440

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0436 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1408 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1408 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1408 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0232 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 16 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 6.6 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1625 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | 1.6 | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.088 - 0.144

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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Description: MW-16

Matrix: Aqueous

Date Sampled: 03/26/2019 1440

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1625 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 100 | 70-130 |
| Bromofluorobenzene | | 91 | 70-130 |
| Toluene-d8 | | 99 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1604 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-16

Matrix: Aqueous

Date Sampled: 03/26/2019 1440

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1438 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 4/29/19

Description: TB-02

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1646 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | ND | | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: TB-02

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1646 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 103 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLP
4/29/19

Description: MW-1

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0439 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 0922 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 0922 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 0922 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0517 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 1.2 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1835 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 200 | 20 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 100 | 20 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 10 | 5.0 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 20 | 6.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |

TOC Range: 1.117 - 1.252

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-1

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1835 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 1400 | | 10 | 4.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 4.8 | J | 10 | 4.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 32 | J | 10 | 4.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 50 | 4.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 10 | 4.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 4.9 | J | 10 | 4.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 10 | 4.2 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 6.3 | J | 10 | 4.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 33 | J | 10 | 4.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 200 | J | 10 | 4.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 100 | 70-130 |
| Bromofluorobenzene | | 92 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1628 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-1

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 97 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1540 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 10 | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 350 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 4/29/19

Description: MW-1D

Matrix: Aqueous

Date Sampled: 03/26/2019 1025

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0442 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 0948 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 0948 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 0948 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0550 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.1 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.091 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 0.76 | J | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1708 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | 39 | 20 | 20 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.088 - 0.147

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
4/29/19

Description: MW-1D

Matrix: Aqueous

Date Sampled: 03/26/2019 1025

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | |
|---------------------------------------|-----------------|-------------------|------------|-----------------|------------|-------------|-------------|----------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1708 | JJG | | 11791 | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | 13 | | 1.0 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | 2.7 | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 103 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1652 | ECB | | 11423 | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLP
 4/22/19

Description: MW-1D

Matrix: Aqueous

Date Sampled: 03/26/2019 1025

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 92 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1506 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-2

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0445 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1014 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1014 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1014 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0728 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 1.4 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.5 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1730 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|-----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | 2.5 | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.155 - 0.205

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLP
 4/29/19

Description: MW-2

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1730 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1716 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 4/29/19

Description: MW-2

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1516 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-2D

Matrix: Aqueous

Date Sampled: 03/26/2019 1020

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0449 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1040 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1040 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1040 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0802 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.6 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.19 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.2 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1751 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|-----|-----|------|-------|-------|
| Acetone | 67-64-1 | 8260B | ND 3.2 | SLU | 20 | 2.0 | ug/L | 1 200 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.143 - 0.191

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
4/29/19

Description: MW-2D

Matrix: Aqueous

Date Sampled: 03/26/2019 1020

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1751 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1740 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-2D

Matrix: Aqueous

Date Sampled: 03/26/2019 1020

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1530 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: DUP-01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0452 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1106 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1106 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1106 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0835 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 18 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 1.2 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1857 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 200 | 20 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 100 | 20 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 10 | 5.0 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 20 | 6.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |

TOC Range: 1.18 - 1.29

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/22/19

Description: DUP-01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1857 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 1900 | | 10 | 4.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 6.4 | J | 10 | 4.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 79 | J | 10 | 4.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 50 | 4.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 10 | 4.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 4.3 | J | 10 | 4.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 10 | 4.2 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 5.6 | J | 10 | 4.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 57 | J | 10 | 4.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 470 | J | 10 | 4.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 102 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1804 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 04/29/19

Description: DUP-01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 97 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1449 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 8.1 | J | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 180 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLP
 04/29/19

Description: MW-7

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0457 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1132 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1132 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1132 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0909 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 46 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 5.3 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.056 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 4.5 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 03/31/2019 1919 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 4.44 - 4.625

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-7

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 5 | 03/31/2019 1919 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 440 | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 79 | | 5.0 | 2.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 200 | | 5.0 | 2.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 210 | | 5.0 | 2.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 102 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1828 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-7

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1831 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | 4.7 | J | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 17 | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 120 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: TRIP BLANK 01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1814 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 3.4 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: TRIP BLANK 01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1814 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | | |
| Bromofluorobenzene | | 92 | 70-130 | | | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-10

Matrix: Aqueous

Date Sampled: 03/27/2019 1025

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1412 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 0947 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 0947 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 0947 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0943 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 6.7 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 2.0 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0300 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|-----|-----|------|-------|-------|
| Acetone | 67-64-1 | 8260B | ND | 3.5 | 20 | 2.0 | ug/L | 1 220 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 1.975 - 2.077

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-10

Matrix: Aqueous

Date Sampled: 03/27/2019 1025

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0300 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 104 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1235 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-10

Matrix: Aqueous

Date Sampled: 03/27/2019 1025

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1607 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 65 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 04/29/19

Description: MW-14

Matrix: Aqueous

Date Sampled: 03/27/2019 0910

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1421 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1013 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1013 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1013 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1016 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | 9056A | | 2.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | 9056A | | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | 9056A | | 16 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | 9060A | | 0.81 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0321 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | XU | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.761 - 0.873

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-14

Matrix: Aqueous

Date Sampled: 03/27/2019 0910

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0321 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 102 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1259 | JJG | | 11870 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-14

Matrix: Aqueous

Date Sampled: 03/27/2019 0910

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1623 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 100 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLP
04/29/19

Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1424 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1039 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1039 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1039 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1154 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 33 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 0.92 | J | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | 3.5 | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 11 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 200 | 04/01/2019 0510 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 4000 | 400 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 400 | 80 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 2000 | 400 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 400 | 80 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 200 | 100 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 400 | 120 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 1100 | | 200 | 80 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |

TOC Range: 11.005 - 11.627

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 200 | 04/01/2019 0510 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | 540 | | 200 | 80 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 15000 | | 200 | 80 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 120 | J | 200 | 80 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 310 | | 200 | 80 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 2000 | 400 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 2000 | 400 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 1000 | 80 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 200 | 82 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | 97 | J | 200 | 80 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 200 | 84 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 900 | | 200 | 80 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 1200 | | 200 | 80 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 103 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 102 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 5 | 04/01/2019 1955 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is) | 310 | | 15 | 5.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 5 | 04/04/2019 1639 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | 18 | J | 50 | 13 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 76 | | 50 | 13 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 11000 | | 50 | 13 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 75 | 25 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 04/29/19

Description: MW-3D

Matrix: Aqueous

Date Sampled: 03/27/2019 1000

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1427 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1105 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1105 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1105 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1228 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 4.9 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 2.8 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0343 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|----|-----|------|-------|-------|
| Acetone | 67-64-1 | 8260B | ND 2.8 | JU | 20 | 2.0 | ug/L | 1 <20 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | 0.46 | J | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.127 - 0.242

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-3D

Matrix: Aqueous

Date Sampled: 03/27/2019 1000

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0343 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,1,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 107 | 70-130 |
| Bromofluorobenzene | | 95 | 70-130 |
| Toluene-d8 | | 105 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1324 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-3D

Matrix: Aqueous

Date Sampled: 03/27/2019 1000

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1655 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2.9 | J | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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JLF
04/29/19

Description: TB-01

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 2300 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 2.8 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: TB-01

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 1 | 03/31/2019 2300 | KGT | | 11807 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 105 | 70-130 | | | | | | |
| Bromofluorobenzene | | 95 | 70-130 | | | | | | |
| Toluene-d8 | | 103 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-4

Matrix: Aqueous

Date Sampled: 03/27/2019 1410

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1430 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1131 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1131 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1131 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1302 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.3 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 12 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.71 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1337 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | 42 | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.659 - 0.751

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLP
04/29/19

Description: MW-4

Matrix: Aqueous

Date Sampled: 03/27/2019 1410

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1337 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 4.1 | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | 2.4 | | 1.0 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | 0.67 | J | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | 4.6 | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 93 | 70-130 |
| Bromofluorobenzene | | 98 | 70-130 |
| Toluene-d8 | | 94 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1348 | JJG | | 11870 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-4

Matrix: Aqueous

Date Sampled: 03/27/2019 1410

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1711 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 3.3 | J | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLP
 04/29/19

Description: MW-4D

Matrix: Aqueous

Date Sampled: 03/27/2019 1450

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1445 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1157 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1157 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1157 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1336 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 1.8 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.065 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 2.9 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0405 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|-----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | 2.9 | 2.0 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.061 - 0.1

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-4D

Matrix: Aqueous

Date Sampled: 03/27/2019 1450

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-----------------|-------------------|-------------|-----------------|------------|-------------|-------------|----------|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0405 | KGT | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 19 | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 0.53 | J | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 90 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1412 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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JLF
04/29/19

Description: MW-4D

Matrix: Aqueous

Date Sampled: 03/27/2019 1450

Date Received: 03/27/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 93 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1727 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-5

Matrix: Aqueous

Date Sampled: 03/27/2019 1600

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1447 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1223 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1223 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1223 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1409 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.61 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 3.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.52 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1729 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 4.6 | J | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 0.498 - 0.536

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-5

Matrix: Aqueous

Date Sampled: 03/27/2019 1600

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1729 | BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 320 | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 2.9 | J | 5.0 | 2.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 130 | | 5.0 | 2.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 250 | | 5.0 | 2.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 3.5 | J | 5.0 | 2.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 93 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 93 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1437 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is) | 9.7 | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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Description: MW-5

Matrix: Aqueous

Date Sampled: 03/27/2019 1600

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1743 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|----------------|----------------|-------------------|-------------|---|-----------|------------|-------------|----------|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2200 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

JLF
 04/29/19

Description: DUP-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1450 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1249 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1249 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1249 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1443 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.60 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 4.0 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.60 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1752 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 5.2 | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 0.564 - 0.624

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: DUP-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1752 | BWS | | 12007 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1-Dichloroethene | | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| cis-1,2-Dichloroethene | | 156-59-2 | 8260B | 310 | | 5.0 | 2.0 | ug/L | 1 |
| trans-1,2-Dichloroethene | | 156-60-5 | 8260B | 2.8 | J | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloropropane | | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| cis-1,3-Dichloropropene | | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| trans-1,3-Dichloropropene | | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Ethylbenzene | | 100-41-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 2-Hexanone | | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Isopropylbenzene | | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Methyl acetate | | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 4-Methyl-2-pentanone | | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Methylcyclohexane | | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 |
| Methylene chloride | | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Styrene | | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Tetrachloroethene | | 127-18-4 | 8260B | 120 | | 5.0 | 2.0 | ug/L | 1 |
| Toluene | | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | 240 | | 5.0 | 2.0 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | 3.3 | J | 5.0 | 2.0 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |
| Bromofluorobenzene | | 98 | 70-130 |
| Toluene-d8 | | 95 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1501 | JJG | | 11870 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,4-Dioxane | | 123-91-1 | 8260B (SIM is) | 11 | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: DUP-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1759 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2200 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: TB-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|---------------|----------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/02/2019 | 1205 BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 5.9 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLP
04/29/19

Description: TB-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1205 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 109 | 70-130 |
| Bromofluorobenzene | | 107 | 70-130 |
| Toluene-d8 | | 105 | 70-130 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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JLF
04/29/19

Description: MW-11

Matrix: Aqueous

Date Sampled: 03/27/2019 1220

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1456 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1407 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1407 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1407 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 04/01/2019 2350 | DMA | | 11885 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 59 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.8 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 6.9 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 3.8 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1401 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|-----|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | 6.5 | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 3.647 - 3.872

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-11

Matrix: Aqueous

Date Sampled: 03/27/2019 1220

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1401 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|------------------|-------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |
| Bromofluorobenzene | | 97 | 70-130 |
| Toluene-d8 | | 96 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1526 | JJG | | 11870 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is) | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Description: MW-11

Matrix: Aqueous

Date Sampled: 03/27/2019 1220

Date Received: 03/27/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1815 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|----------------|----------------|-------------------|-----------|---|-----------|------------|-------------|----------|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 14 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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JLF
 04/29/19

Laboratory Analytical Reports

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

EarthCon Consultants, Inc.

1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Carol Northern

Project Name: Lennox International

Project Number: 02.20160378

Lot Number: **UC26059**

Date Completed: 04/04/2019



04/08/2019 1:45 PM

Approved and released by:
Lab Director - Greenville: Lucas Odom



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SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative EarthCon Consultants, Inc. Lot Number: UC26059

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Nitrate

The matrix spike/matrix spike duplicate (MS/MSD) associated with samples -001, -002, -003, and -004 had 0% recovery for target analyte: nitrate. The remaining analytes contained in the spiking solution have 0% recovery. The poor nitrate MS/MSD recoveries are attributed to matrix interference.

VOCs by GC/MS

The continuing calibration verification (CCV) associated with samples UC26059-002, UC26059-003, UC26059-004, UC26059-005 recovered Acetone above the upper control limit. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data has been reported.

The laboratory control sample (LCS) for analytical batch 11778 exceeded acceptance criteria for Chloroethane. This analyte is biased high but detected in the samples affected.

Sulfide

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 12039. An LCS/LCSD was run in lieu of an MS/MSD. A sample duplicate was performed alongside the LCS/LCSD.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary EarthCon Consultants, Inc. Lot Number: UC26059

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|-----------|---------|-----------------|---------------|
| 001 | MW-6R | Aqueous | 03/26/2019 1315 | 03/26/2019 |
| 002 | MW-8 | Aqueous | 03/26/2019 1135 | 03/26/2019 |
| 003 | MW-15 | Aqueous | 03/26/2019 1420 | 03/26/2019 |
| 004 | MW-16 | Aqueous | 03/26/2019 1440 | 03/26/2019 |
| 005 | TB-02 | Aqueous | 03/26/2019 | 03/26/2019 |

(5 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary EarthCon Consultants, Inc. Lot Number: UC26059

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|-----------|---------|-------------|---------------|--------|---|-------|------|
| 001 | MW-6R | Aqueous | Chloride | 9056A | 8.0 | | mg/L | 6 |
| 001 | MW-6R | Aqueous | Nitrate - N | 9056A | 1.9 | | mg/L | 6 |
| 001 | MW-6R | Aqueous | Sulfate | 9056A | 3.6 | | mg/L | 6 |
| 001 | MW-6R | Aqueous | TOC | 9060A | 18 | | mg/L | 6 |
| 001 | MW-6R | Aqueous | Acetone | 8260B | 7.7 | J | ug/L | 6 |
| 002 | MW-8 | Aqueous | Chloride | 9056A | 3.4 | | mg/L | 9 |
| 002 | MW-8 | Aqueous | Sulfate | 9056A | 97 | | mg/L | 9 |
| 002 | MW-8 | Aqueous | Sulfide | SM 4500-S2 F- | 1.1 | | mg/L | 9 |
| 002 | MW-8 | Aqueous | TOC | 9060A | 12 | | mg/L | 9 |
| 002 | MW-8 | Aqueous | Acetone | 8260B | 11 | J | ug/L | 9 |
| 002 | MW-8 | Aqueous | 1,4-Dioxane | 8260B (SIM) | 3.2 | | ug/L | 10 |
| 002 | MW-8 | Aqueous | Methane | RSK - 175 | 100 | | ug/L | 11 |
| 003 | MW-15 | Aqueous | Alkalinity | SM 2320B- | 27 | | mg/L | 12 |
| 003 | MW-15 | Aqueous | Chloride | 9056A | 4.5 | | mg/L | 12 |
| 003 | MW-15 | Aqueous | Nitrate - N | 9056A | 0.13 | | mg/L | 12 |
| 003 | MW-15 | Aqueous | Sulfate | 9056A | 13 | | mg/L | 12 |
| 003 | MW-15 | Aqueous | TOC | 9060A | 0.52 | J | mg/L | 12 |
| 003 | MW-15 | Aqueous | Acetone | 8260B | 2.7 | J | ug/L | 12 |
| 004 | MW-16 | Aqueous | Chloride | 9056A | 16 | | mg/L | 15 |
| 004 | MW-16 | Aqueous | Nitrate - N | 9056A | 6.6 | | mg/L | 15 |
| 004 | MW-16 | Aqueous | Sulfate | 9056A | 1.3 | | mg/L | 15 |
| 004 | MW-16 | Aqueous | Chloroform | 8260B | 1.6 | | ug/L | 15 |

(22 detections)

Description: MW-6R

Matrix: Aqueous

Date Sampled: 03/26/2019 1315

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0405 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1158 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1158 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1158 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0051 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 1.9 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 3.6 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 18 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 2 | 5030B | 8260B | 1 | 04/02/2019 0236 | MNS | | 11939 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 7.7 | J | 20 | 2.0 | ug/L | 2 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 2 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 2 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 2 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 2 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 2 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 |

TOC Range: 17.967 - 18.624

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 2 | 5030B | 8260B | 1 | 04/02/2019 0236 | MNS | | 11939 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 2 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 2 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 2 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 2 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 2 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 2 | |

| Surrogate | Q | Run 2 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 102 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 103 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1450 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1258 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-8

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0414 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1224 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1224 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1224 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0125 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 3.4 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 97 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | 1.1 | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 12 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1541 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 11 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 12.008 - 12.591

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-8

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1541 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1515 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | 3.2 | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1320 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 100 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-15

Matrix: Aqueous

Date Sampled: 03/26/2019 1420

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0420 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1342 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1342 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1342 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0159 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 27 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 4.5 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.13 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 13 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.52 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1603 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 2.7 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.47 - 0.568

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1603 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1539 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: MW-15

Matrix: Aqueous

Date Sampled: 03/26/2019 1420

Date Received: 03/26/2019

| Surrogate | Run 1 | | Acceptance |
|-----------------------|-------|------------|------------|
| | Q | % Recovery | Limits |
| 1,2-Dichloroethane-d4 | | 96 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1334 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: MW-16

Matrix: Aqueous

Date Sampled: 03/26/2019 1440

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0436 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1408 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1408 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1408 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0232 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 16 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 6.6 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1625 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | 1.6 | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.088 - 0.144

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-16

Matrix: Aqueous

Date Sampled: 03/26/2019 1440

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|--|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1625 | JJG | | 11791 | | | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | | | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | | | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 | | 100 | 70-130 | | | | | | | | |
| Bromofluorobenzene | | 91 | 70-130 | | | | | | | | |
| Toluene-d8 | | 99 | 70-130 | | | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1604 | ECB | | 11423 | | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1438 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: TB-02

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1646 | JJG | | 11791 | | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | | |
| Acetone | 67-64-1 | 8260B | ND | | 20 | 2.0 | ug/L | 1 | | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1646 | JJG | | 11791 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 103 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Inorganic non-metals - MB

Sample ID: UQ11460-001

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Chloride | ND | | 1 | 1.0 | 0.20 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11460-002

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 20 | 20 | | 1 | 102 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC26059-004MS

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 16 | 20 | 33 | | 1 | 86 | 80-120 | 03/27/2019 1434 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC26059-004MD

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Chloride | 16 | 20 | 33 | | 1 | 86 | 0.61 | 80-120 | 20 | 03/27/2019 1500 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11461-001

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-------------|--------|---|-----|-------|--------|-------|-----------------|
| Nitrate - N | ND | | 1 | 0.020 | 0.0050 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11461-002

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | 0.80 | 0.79 | | 1 | 99 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC26059-004MS

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | 6.6 | 0.80 | 6.6 | N | 1 | 0.00 | 80-120 | 03/27/2019 1434 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC26059-004MD

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Nitrate - N | 6.6 | 0.80 | 6.6 | N | 1 | 0.00 | 0.00 | 80-120 | 20 | 03/27/2019 1500 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11463-001

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Sulfate | ND | | 1 | 1.0 | 0.20 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11463-002

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 20 | 20 | | 1 | 101 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC26059-004MS

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 1.3 | 20 | 33 | N | 1 | 157 | 80-120 | 03/27/2019 1434 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC26059-004MD

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfate | 1.3 | 20 | 35 | N | 1 | 168 | 6.5 | 80-120 | 20 | 03/27/2019 1500 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11603-001

Matrix: Aqueous

Batch: 11603

Analytical Method: SM 2320B-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------|--------|---|-----|-----|----|-------|-----------------|
| Alkalinity | ND | | 1 | 20 | 20 | mg/L | 03/28/2019 0349 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11603-002

Matrix: Aqueous

Batch: 11603

Analytical Method: SM 2320B-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | 100 | 110 | | 1 | 107 | 90-110 | 03/28/2019 0355 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - Duplicate

Sample ID: UC26059-001DU

Matrix: Aqueous

Batch: 11603

Analytical Method: SM 2320B-2011

| Parameter | Sample Amount (mg/L) | Result (mg/L) | Q | Dil | % RPD | % RPD Limit | Analysis Date |
|------------|----------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | ND | ND | | 1 | 0.00 | 20 | 03/28/2019 0411 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11671-001

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| TOC | ND | | 1 | 1.0 | 0.42 | mg/L | 03/29/2019 2240 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11671-002

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | 20 | 20 | | 1 | 99 | 90-110 | 03/29/2019 2312 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC26059-004MS

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | ND | 20 | 20 | | 1 | 98 | 70-130 | 03/30/2019 0306 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC26059-004MD

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| TOC | ND | 20 | 20 | | 1 | 100 | 1.9 | 70-130 | 20 | 03/30/2019 0339 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12039-001

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Sulfide | ND | | 1 | 1.0 | 1.0 | mg/L | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ12039-002

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfide | 10 | 9.3 | | 1 | 93 | 80-120 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCSD

Sample ID: UQ12039-003

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfide | 10 | 9.8 | | 1 | 98 | 5.2 | 80-120 | 20 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: UQ11423-001

Matrix: Aqueous

Batch: 11423

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------------------|--------|-------|------------------|-----|-----|-------|-----------------|
| 1,4-Dioxane | ND | | 1 | 3.0 | 1.0 | ug/L | 03/27/2019 1230 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 100 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: UQ11423-002

Matrix: Aqueous

Batch: 11423

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------------------|---------------------|---------------|---|-----|-------|------------------|-----------------|
| 1,4-Dioxane | 50 | 57 | | 1 | 113 | 70-130 | 03/27/2019 1124 |
| Surrogate | Q | % Rec | | | | Acceptance Limit | |
| 1,2-Dichloroethane-d4 | | 97 | | | | 70-130 | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11791-001

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 03/31/2019 1217 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 03/31/2019 1217 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 03/31/2019 1217 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 03/31/2019 1217 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 03/31/2019 1217 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11791-001

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|---------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 101 | 70-130 | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11791-002

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 91 | | 1 | 91 | 60-140 | 03/31/2019 1116 |
| Benzene | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| Bromodichloromethane | 50 | 54 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| Bromoform | 50 | 43 | | 1 | 86 | 70-130 | 03/31/2019 1116 |
| Bromomethane (Methyl bromide) | 50 | 44 | | 1 | 88 | 70-130 | 03/31/2019 1116 |
| 2-Butanone (MEK) | 100 | 98 | | 1 | 98 | 70-130 | 03/31/2019 1116 |
| Carbon disulfide | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| Carbon tetrachloride | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| Chlorobenzene | 50 | 51 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| Chloroethane | 50 | 39 | | 1 | 79 | 70-130 | 03/31/2019 1116 |
| Chloroform | 50 | 52 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Chloromethane (Methyl chloride) | 50 | 47 | | 1 | 93 | 60-140 | 03/31/2019 1116 |
| Cyclohexane | 50 | 61 | | 1 | 122 | 70-130 | 03/31/2019 1116 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 1116 |
| Dibromochloromethane | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| 1,2-Dibromoethane (EDB) | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichlorobenzene | 50 | 51 | | 1 | 102 | 70-130 | 03/31/2019 1116 |
| 1,3-Dichlorobenzene | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 1116 |
| 1,4-Dichlorobenzene | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 1116 |
| Dichlorodifluoromethane | 50 | 50 | | 1 | 100 | 60-140 | 03/31/2019 1116 |
| 1,1-Dichloroethane | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichloroethane | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 1116 |
| 1,1-Dichloroethene | 50 | 57 | | 1 | 114 | 70-130 | 03/31/2019 1116 |
| cis-1,2-Dichloroethene | 50 | 54 | | 1 | 107 | 70-130 | 03/31/2019 1116 |
| trans-1,2-Dichloroethene | 50 | 55 | | 1 | 111 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichloropropane | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 1116 |
| cis-1,3-Dichloropropene | 50 | 57 | | 1 | 113 | 70-130 | 03/31/2019 1116 |
| trans-1,3-Dichloropropene | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| Ethylbenzene | 50 | 52 | | 1 | 105 | 70-130 | 03/31/2019 1116 |
| 2-Hexanone | 100 | 97 | | 1 | 97 | 70-130 | 03/31/2019 1116 |
| Isopropylbenzene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| Methyl acetate | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 1116 |
| Methyl tertiary butyl ether (MTBE) | 50 | 58 | | 1 | 115 | 70-130 | 03/31/2019 1116 |
| 4-Methyl-2-pentanone | 100 | 100 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Methylcyclohexane | 50 | 58 | | 1 | 117 | 70-130 | 03/31/2019 1116 |
| Methylene chloride | 50 | 52 | | 1 | 105 | 70-130 | 03/31/2019 1116 |
| Styrene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| 1,1,2,2-Tetrachloroethane | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| Tetrachloroethene | 50 | 50 | | 1 | 99 | 70-130 | 03/31/2019 1116 |
| Toluene | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 57 | | 1 | 114 | 70-130 | 03/31/2019 1116 |
| 1,2,4-Trichlorobenzene | 50 | 47 | | 1 | 93 | 70-130 | 03/31/2019 1116 |
| 1,1,1-Trichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| 1,1,2-Trichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11791-002

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Trichloroethene | 50 | 56 | | 1 | 111 | 70-130 | 03/31/2019 1116 |
| Trichlorofluoromethane | 50 | 46 | | 1 | 92 | 70-130 | 03/31/2019 1116 |
| Vinyl chloride | 50 | 38 | | 1 | 76 | 70-130 | 03/31/2019 1116 |
| Xylenes (total) | 100 | 100 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 100 | 70-130 | | | | |
| Bromofluorobenzene | | 98 | 70-130 | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11939-001

Matrix: Aqueous

Batch: 11939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 04/02/2019 0007 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 0007 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 04/02/2019 0007 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 04/02/2019 0007 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 0007 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 0007 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 04/02/2019 0007 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 04/02/2019 0007 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11939-001

Matrix: Aqueous

Batch: 11939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 0007 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 104 | 70-130 | | | | |
| Bromofluorobenzene | | 96 | 70-130 | | | | |
| Toluene-d8 | | 105 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11939-002

Matrix: Aqueous

Batch: 11939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 100 | | 1 | 101 | 60-140 | 04/01/2019 2311 |
| Benzene | 50 | 52 | | 1 | 104 | 70-130 | 04/01/2019 2311 |
| Bromodichloromethane | 50 | 52 | | 1 | 104 | 70-130 | 04/01/2019 2311 |
| Bromoform | 50 | 43 | | 1 | 86 | 70-130 | 04/01/2019 2311 |
| Bromomethane (Methyl bromide) | 50 | 51 | | 1 | 102 | 70-130 | 04/01/2019 2311 |
| 2-Butanone (MEK) | 100 | 100 | | 1 | 101 | 70-130 | 04/01/2019 2311 |
| Carbon disulfide | 50 | 49 | | 1 | 98 | 70-130 | 04/01/2019 2311 |
| Carbon tetrachloride | 50 | 54 | | 1 | 108 | 70-130 | 04/01/2019 2311 |
| Chlorobenzene | 50 | 49 | | 1 | 98 | 70-130 | 04/01/2019 2311 |
| Chloroethane | 50 | 45 | | 1 | 89 | 70-130 | 04/01/2019 2311 |
| Chloroform | 50 | 51 | | 1 | 102 | 70-130 | 04/01/2019 2311 |
| Chloromethane (Methyl chloride) | 50 | 60 | | 1 | 120 | 60-140 | 04/01/2019 2311 |
| Cyclohexane | 50 | 57 | | 1 | 113 | 70-130 | 04/01/2019 2311 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 49 | | 1 | 97 | 70-130 | 04/01/2019 2311 |
| Dibromochloromethane | 50 | 54 | | 1 | 109 | 70-130 | 04/01/2019 2311 |
| 1,2-Dibromoethane (EDB) | 50 | 57 | | 1 | 114 | 70-130 | 04/01/2019 2311 |
| 1,2-Dichlorobenzene | 50 | 47 | | 1 | 95 | 70-130 | 04/01/2019 2311 |
| 1,3-Dichlorobenzene | 50 | 48 | | 1 | 96 | 70-130 | 04/01/2019 2311 |
| 1,4-Dichlorobenzene | 50 | 47 | | 1 | 95 | 70-130 | 04/01/2019 2311 |
| Dichlorodifluoromethane | 50 | 66 | | 1 | 132 | 60-140 | 04/01/2019 2311 |
| 1,1-Dichloroethane | 50 | 52 | | 1 | 103 | 70-130 | 04/01/2019 2311 |
| 1,2-Dichloroethane | 50 | 58 | | 1 | 117 | 70-130 | 04/01/2019 2311 |
| 1,1-Dichloroethene | 50 | 53 | | 1 | 107 | 70-130 | 04/01/2019 2311 |
| cis-1,2-Dichloroethene | 50 | 52 | | 1 | 104 | 70-130 | 04/01/2019 2311 |
| trans-1,2-Dichloroethene | 50 | 52 | | 1 | 105 | 70-130 | 04/01/2019 2311 |
| 1,2-Dichloropropane | 50 | 52 | | 1 | 104 | 70-130 | 04/01/2019 2311 |
| cis-1,3-Dichloropropene | 50 | 54 | | 1 | 107 | 70-130 | 04/01/2019 2311 |
| trans-1,3-Dichloropropene | 50 | 55 | | 1 | 109 | 70-130 | 04/01/2019 2311 |
| Ethylbenzene | 50 | 50 | | 1 | 100 | 70-130 | 04/01/2019 2311 |
| 2-Hexanone | 100 | 100 | | 1 | 101 | 70-130 | 04/01/2019 2311 |
| Isopropylbenzene | 50 | 49 | | 1 | 98 | 70-130 | 04/01/2019 2311 |
| Methyl acetate | 50 | 57 | | 1 | 114 | 70-130 | 04/01/2019 2311 |
| Methyl tertiary butyl ether (MTBE) | 50 | 58 | | 1 | 116 | 70-130 | 04/01/2019 2311 |
| 4-Methyl-2-pentanone | 100 | 100 | | 1 | 101 | 70-130 | 04/01/2019 2311 |
| Methylcyclohexane | 50 | 54 | | 1 | 109 | 70-130 | 04/01/2019 2311 |
| Methylene chloride | 50 | 51 | | 1 | 103 | 70-130 | 04/01/2019 2311 |
| Styrene | 50 | 49 | | 1 | 98 | 70-130 | 04/01/2019 2311 |
| 1,1,2,2-Tetrachloroethane | 50 | 54 | | 1 | 108 | 70-130 | 04/01/2019 2311 |
| Tetrachloroethene | 50 | 47 | | 1 | 94 | 70-130 | 04/01/2019 2311 |
| Toluene | 50 | 53 | | 1 | 107 | 70-130 | 04/01/2019 2311 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 54 | | 1 | 107 | 70-130 | 04/01/2019 2311 |
| 1,2,4-Trichlorobenzene | 50 | 39 | | 1 | 79 | 70-130 | 04/01/2019 2311 |
| 1,1,1-Trichloroethane | 50 | 53 | | 1 | 107 | 70-130 | 04/01/2019 2311 |
| 1,1,2-Trichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 04/01/2019 2311 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11939-002

Matrix: Aqueous

Batch: 11939

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------|---------------|------------------|-----|-------|-------------|-----------------|
| Trichloroethene | 50 | 52 | | 1 | 105 | 70-130 | 04/01/2019 2311 |
| Trichlorofluoromethane | 50 | 53 | | 1 | 105 | 70-130 | 04/01/2019 2311 |
| Vinyl chloride | 50 | 46 | | 1 | 91 | 70-130 | 04/01/2019 2311 |
| Xylenes (total) | 100 | 99 | | 1 | 99 | 70-130 | 04/01/2019 2311 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | |
| Bromofluorobenzene | | 96 | 70-130 | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Dissolved Gases - MB

Sample ID: UQ12018-001

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Ethane | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Ethene | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Methane | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Propane | ND | | 1 | 15 | 5.0 | ug/L | 04/02/2019 1033 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCS

Sample ID: UQ12018-002

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Ethane | 280 | 320 | | 1 | 113 | 70-130 | 04/02/2019 1002 |
| Ethene | 260 | 280 | | 1 | 107 | 70-130 | 04/02/2019 1002 |
| Methane | 150 | 170 | | 1 | 111 | 70-130 | 04/02/2019 1002 |
| Propane | 420 | 480 | | 1 | 116 | 70-130 | 04/02/2019 1002 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCSD

Sample ID: UQ12018-003

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Ethane | 280 | 320 | | 1 | 113 | 0.43 | 70-130 | 30 | 04/02/2019 1014 |
| Ethene | 260 | 290 | | 1 | 109 | 2.6 | 70-130 | 30 | 04/02/2019 1014 |
| Methane | 150 | 170 | | 1 | 110 | 1.0 | 70-130 | 30 | 04/02/2019 1014 |
| Propane | 420 | 480 | | 1 | 115 | 1.2 | 70-130 | 30 | 04/02/2019 1014 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number

91446

| | | | | | | | |
|---|--|--|--|--|--|---|--|
| Client EARTHCON Address 1080 WEST OAK PKWY City Monetta State GA Zip Code 30062 Project Name Lernox International Project No. 02-2016-0378 Sample ID / Description (Containers for each sample may be collected on one line.) MW-6R MW-8 MW-15 MW-16 TB-02 | | Report to Contact Carol Norman Summator's Signature [Signature] Printed Name Tiffany Messier | | Telephone No. / E-mail 770-973-2100 carol@earthcon.com Analysis (Attach list if more space is needed) | | Quote No. Page 1 of 1 Barcode UC26059 LID | |
| Matrix Agonous Solid Liquid Gas | | No. of Containers by Preservative Type None HCHO HCl HNO3 H2SO4 None | | VOC 1,4 Dioxane Diss. Gas TBC NDS/Sa/air Sulfide | | G/C Requirements (Specify) Date Time Date Time Date Time | |
| Sample Disposal Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> | | Possible Hazard Identification ☐ Mut-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown | | 1. Received by Date Time 2. Received by Date Time 3. Received by Date Time 4. Laboratory Receipt by Date Time | | LAB USE ONLY Received on Ice (Circle) <input checked="" type="checkbox"/> No <input type="checkbox"/> Ice Pack Receipt Temp. 1.6 °C | |
| 1. Requisitioned by [Signature] 2. Requisitioned by [Signature] 3. Requisitioned by [Signature] 4. Requisitioned by [Signature] | | Date Time Date Time Date Time Date Time | | Date Time Date Time Date Time Date Time | | Date Time Date Time Date Time Date Time | |
| Note: All samples are retained for four weeks from receipt unless other arrangements are made. | | | | | | | |

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-40-135 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: MBC / 03-26-2019 Lot #: UC26059

| | |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____ | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 1. Were custody seals present on the cooler? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 2. If custody seals were present, were they intact and unbroken? |
| pH Strip ID: <u>18-2225</u> Chlorine Strip ID: <u>19-152</u> Tested by: <u>LKH</u> | |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>LKH</u> | |
| <u>1.6 / 1.6 °C NA / NA °C NA / NA °C NA / NA °C</u> | |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C | |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 4. Is the commercial courier's packing slip attached to this form? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Were proper custody procedures (relinquished/received) followed? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 6. Were sample IDs listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 7. Were sample IDs listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. Was collection date & time listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. Was collection date & time listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. Did all container label information (ID, date, time) agree with the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 11. Were tests to be performed listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____ |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 13. Was adequate sample volume available? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 17. Were all DRO/metals/nutrient samples received at a pH of < 2? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 21. Was the quote number listed on the container label? If yes, Quote # _____ |
| Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) | |
| Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u> . | |
| Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below. | |
| Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter. | |
| Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> . | |
| SR barcode labels applied by: <u>LKH</u> Date: <u>03-26-2019</u> | |

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

EarthCon Consultants, Inc.

1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Carol Northern

Project Name: Lennox International

Project Number: 02.20160378

Lot Number: **UC26062**

Date Completed: 04/05/2019



04/08/2019 1:50 PM

Approved and released by:
Lab Director - Greenville: Lucas Odom



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SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative EarthCon Consultants, Inc. Lot Number: UC26062

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Nitrate

The matrix spike/matrix spike duplicate (MS/MSD) associated with samples -001 through -006 had 0% recovery for target analyte: nitrate. The remaining analytes contained in the spiking solution have 0% recovery. The poor nitrate MS/MSD recoveries are attributed to matrix interference.

VOCs by GC/MS

The continuing calibration verification (CCV) associated with samples UC26062-001, UC26062-002, UC26062-003, UC26062-004, UC26062-005, UC26062-006, UC26062-007 recovered Acetone above the upper control limit. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data has been reported.

Sulfide

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 12039. An LCS/LCSD was run in lieu of an MS/MSD. A sample duplicate was performed alongside the LCS/LCSD.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
EarthCon Consultants, Inc.
Lot Number: UC26062

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|---------------|---------|-----------------|---------------|
| 001 | MW-1 | Aqueous | 03/26/2019 0920 | 03/26/2019 |
| 002 | MW-1D | Aqueous | 03/26/2019 1025 | 03/26/2019 |
| 003 | MW-2 | Aqueous | 03/26/2019 0920 | 03/26/2019 |
| 004 | MW-2D | Aqueous | 03/26/2019 1020 | 03/26/2019 |
| 005 | DUP-01 | Aqueous | 03/26/2019 | 03/26/2019 |
| 006 | MW-7 | Aqueous | 03/26/2019 1135 | 03/26/2019 |
| 007 | TRIP BLANK 01 | Aqueous | 03/26/2019 | 03/26/2019 |

(7 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary EarthCon Consultants, Inc. Lot Number: UC26062

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|-----------|---------|--------------------------|-----------|--------|---|-------|------|
| 001 | MW-1 | Aqueous | Chloride | 9056A | 17 | | mg/L | 7 |
| 001 | MW-1 | Aqueous | Sulfate | 9056A | 19 | | mg/L | 7 |
| 001 | MW-1 | Aqueous | TOC | 9060A | 1.2 | | mg/L | 7 |
| 001 | MW-1 | Aqueous | cis-1,2-Dichloroethene | 8260B | 1400 | | ug/L | 8 |
| 001 | MW-1 | Aqueous | trans-1,2-Dichloroethene | 8260B | 4.8 | J | ug/L | 8 |
| 001 | MW-1 | Aqueous | Ethylbenzene | 8260B | 32 | | ug/L | 8 |
| 001 | MW-1 | Aqueous | Tetrachloroethene | 8260B | 4.9 | J | ug/L | 8 |
| 001 | MW-1 | Aqueous | Trichloroethene | 8260B | 6.3 | J | ug/L | 8 |
| 001 | MW-1 | Aqueous | Vinyl chloride | 8260B | 33 | | ug/L | 8 |
| 001 | MW-1 | Aqueous | Xylenes (total) | 8260B | 200 | | ug/L | 8 |
| 001 | MW-1 | Aqueous | Ethene | RSK - 175 | 10 | | ug/L | 9 |
| 001 | MW-1 | Aqueous | Methane | RSK - 175 | 350 | | ug/L | 9 |
| 002 | MW-1D | Aqueous | Chloride | 9056A | 2.1 | | mg/L | 10 |
| 002 | MW-1D | Aqueous | Nitrate - N | 9056A | 0.091 | | mg/L | 10 |
| 002 | MW-1D | Aqueous | Sulfate | 9056A | 0.76 | J | mg/L | 10 |
| 002 | MW-1D | Aqueous | Acetone | 8260B | 3.9 | J | ug/L | 10 |
| 002 | MW-1D | Aqueous | Tetrachloroethene | 8260B | 13 | | ug/L | 11 |
| 002 | MW-1D | Aqueous | Trichloroethene | 8260B | 2.7 | | ug/L | 11 |
| 003 | MW-2 | Aqueous | Chloride | 9056A | 8.0 | | mg/L | 13 |
| 003 | MW-2 | Aqueous | Nitrate - N | 9056A | 1.4 | | mg/L | 13 |
| 003 | MW-2 | Aqueous | Sulfate | 9056A | 1.5 | | mg/L | 13 |
| 003 | MW-2 | Aqueous | Acetone | 8260B | 2.5 | J | ug/L | 13 |
| 004 | MW-2D | Aqueous | Chloride | 9056A | 2.6 | | mg/L | 16 |
| 004 | MW-2D | Aqueous | Nitrate - N | 9056A | 0.19 | | mg/L | 16 |
| 004 | MW-2D | Aqueous | Sulfate | 9056A | 1.2 | | mg/L | 16 |
| 004 | MW-2D | Aqueous | Acetone | 8260B | 3.2 | J | ug/L | 16 |
| 005 | DUP-01 | Aqueous | Chloride | 9056A | 19 | | mg/L | 19 |
| 005 | DUP-01 | Aqueous | Sulfate | 9056A | 18 | | mg/L | 19 |
| 005 | DUP-01 | Aqueous | TOC | 9060A | 1.2 | | mg/L | 19 |
| 005 | DUP-01 | Aqueous | cis-1,2-Dichloroethene | 8260B | 1900 | | ug/L | 20 |
| 005 | DUP-01 | Aqueous | trans-1,2-Dichloroethene | 8260B | 6.4 | J | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Ethylbenzene | 8260B | 79 | | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Tetrachloroethene | 8260B | 4.3 | J | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Trichloroethene | 8260B | 5.6 | J | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Vinyl chloride | 8260B | 57 | | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Xylenes (total) | 8260B | 470 | | ug/L | 20 |
| 005 | DUP-01 | Aqueous | Ethene | RSK - 175 | 8.1 | J | ug/L | 21 |
| 005 | DUP-01 | Aqueous | Methane | RSK - 175 | 180 | | ug/L | 21 |
| 006 | MW-7 | Aqueous | Alkalinity | SM 2320B- | 46 | | mg/L | 22 |
| 006 | MW-7 | Aqueous | Chloride | 9056A | 5.3 | | mg/L | 22 |
| 006 | MW-7 | Aqueous | Nitrate - N | 9056A | 0.056 | | mg/L | 22 |
| 006 | MW-7 | Aqueous | Sulfate | 9056A | 1.3 | | mg/L | 22 |
| 006 | MW-7 | Aqueous | TOC | 9060A | 4.5 | | mg/L | 22 |
| 006 | MW-7 | Aqueous | cis-1,2-Dichloroethene | 8260B | 440 | | ug/L | 23 |
| 006 | MW-7 | Aqueous | Ethylbenzene | 8260B | 79 | | ug/L | 23 |

Detection Summary (Continued)

Lot Number: UC26062

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|---------------|---------|-----------------|-----------|--------|---|-------|------|
| 006 | MW-7 | Aqueous | Vinyl chloride | 8260B | 200 | | ug/L | 23 |
| 006 | MW-7 | Aqueous | Xylenes (total) | 8260B | 210 | | ug/L | 23 |
| 006 | MW-7 | Aqueous | Ethane | RSK - 175 | 4.7 | J | ug/L | 24 |
| 006 | MW-7 | Aqueous | Ethene | RSK - 175 | 17 | | ug/L | 24 |
| 006 | MW-7 | Aqueous | Methane | RSK - 175 | 120 | | ug/L | 24 |
| 007 | TRIP BLANK 01 | Aqueous | Acetone | 8260B | 3.4 | J | ug/L | 25 |

(51 detections)

Description: MW-1

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0439 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 0922 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 0922 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 0922 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0517 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 1.2 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1835 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 200 | 20 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 100 | 20 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 10 | 5.0 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 20 | 6.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |

TOC Range: 1.117 - 1.252

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Shealy Environmental Services, Inc.
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: MW-1

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1835 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 1400 | | 10 | 4.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 4.8 | J | 10 | 4.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 32 | | 10 | 4.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 50 | 4.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 10 | 4.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 4.9 | J | 10 | 4.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 10 | 4.2 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 6.3 | J | 10 | 4.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 33 | | 10 | 4.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 200 | | 10 | 4.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 100 | 70-130 |
| Bromofluorobenzene | | 92 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1628 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 97 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1540 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 10 | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 350 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-1D

Matrix: Aqueous

Date Sampled: 03/26/2019 1025

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0442 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 0948 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 0948 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 0948 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0550 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.1 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.091 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 0.76 | J | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1708 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 3.9 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.088 - 0.147

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1708 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 13 | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 2.7 | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 103 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1652 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-1D

Matrix: Aqueous

Date Sampled: 03/26/2019 1025

Date Received: 03/26/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|----------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 92 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1506 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-2

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0445 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1014 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1014 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1014 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0728 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 1.4 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.5 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1730 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 2.5 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.155 - 0.205

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1730 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 101 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1716 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-2

Matrix: Aqueous

Date Sampled: 03/26/2019 0920

Date Received: 03/26/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|----------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1516 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

Description: MW-2D

Matrix: Aqueous

Date Sampled: 03/26/2019 1020

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0449 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1040 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1040 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1040 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0802 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.6 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.19 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.2 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1751 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 3.2 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.143 - 0.191

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1751 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 101 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1740 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1530 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: DUP-01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0452 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1106 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1106 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1106 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0835 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 18 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 1.2 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1857 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 200 | 20 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 100 | 20 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 20 | 4.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 10 | 5.0 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 20 | 6.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 |

TOC Range: 1.18 - 1.29

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: DUP-01

Matrix: Aqueous

Date Sampled: 03/26/2019

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 10 | 03/31/2019 1857 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 1900 | | 10 | 4.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 6.4 | J | 10 | 4.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 79 | | 10 | 4.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 100 | 20 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 50 | 4.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 10 | 4.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 4.3 | J | 10 | 4.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 10 | 4.2 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 5.6 | J | 10 | 4.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 10 | 4.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 57 | | 10 | 4.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 470 | | 10 | 4.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 106 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 102 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1804 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 97 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/02/2019 1449 | JJG | | 12018 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 8.1 | J | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 180 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-7

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/28/2019 0457 | KFE | | 11603 |
| 1 | | (Chloride) 9056A | 1 | 03/27/2019 1132 | SLU | | 11460 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/27/2019 1132 | SLU | | 11461 |
| 1 | | (Sulfate) 9056A | 1 | 03/27/2019 1132 | SLU | | 11463 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0909 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 46 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 5.3 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.056 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 1.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 4.5 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 03/31/2019 1919 | JJG | | 11791 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 4.44 - 4.625

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-7

Matrix: Aqueous

Date Sampled: 03/26/2019 1135

Date Received: 03/26/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 5 | 03/31/2019 1919 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 440 | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 79 | | 5.0 | 2.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 200 | | 5.0 | 2.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 210 | | 5.0 | 2.0 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 102 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 03/27/2019 1828 | ECB | | 11423 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance |
|-----------------------|-------|------------|------------|
| | Q | % Recovery | Limits |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1831 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | 4.7 | J | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 17 | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 120 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1814 | JJG | | 11791 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 3.4 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 1 | 03/31/2019 1814 | JJG | | 11791 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | | |
| Bromofluorobenzene | | 92 | 70-130 | | | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Inorganic non-metals - MB

Sample ID: UQ11460-001

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Chloride | ND | | 1 | 1.0 | 0.20 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11460-002

Matrix: Aqueous

Batch: 11460

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 20 | 20 | | 1 | 102 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11461-001

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-------------|--------|---|-----|-------|--------|-------|-----------------|
| Nitrate - N | ND | | 1 | 0.020 | 0.0050 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11461-002

Matrix: Aqueous

Batch: 11461

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | 0.80 | 0.79 | | 1 | 99 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11463-001

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Sulfate | ND | | 1 | 1.0 | 0.20 | mg/L | 03/27/2019 0804 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11463-002

Matrix: Aqueous

Batch: 11463

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 20 | 20 | | 1 | 101 | 80-120 | 03/27/2019 0856 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11603-001

Matrix: Aqueous

Batch: 11603

Analytical Method: SM 2320B-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------|--------|---|-----|-----|----|-------|-----------------|
| Alkalinity | ND | | 1 | 20 | 20 | mg/L | 03/28/2019 0349 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11603-002

Matrix: Aqueous

Batch: 11603

Analytical Method: SM 2320B-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | 100 | 110 | | 1 | 107 | 90-110 | 03/28/2019 0355 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11671-001

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| TOC | ND | | 1 | 1.0 | 0.42 | mg/L | 03/29/2019 2240 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11671-002

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | 20 | 20 | | 1 | 99 | 90-110 | 03/29/2019 2312 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC26062-002MS

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | ND | 20 | 20 | | 1 | 100 | 70-130 | 03/30/2019 0623 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC26062-002MD

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| TOC | ND | 20 | 20 | | 1 | 100 | 0.40 | 70-130 | 20 | 03/30/2019 0656 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12039-001

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Sulfide | ND | | 1 | 1.0 | 1.0 | mg/L | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ12039-002

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfide | 10 | 9.3 | | 1 | 93 | 80-120 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Inorganic non-metals - LCSD

Sample ID: UQ12039-003

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfide | 10 | 9.8 | | 1 | 98 | 5.2 | 80-120 | 20 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: UQ11423-001

Matrix: Aqueous

Batch: 11423

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------------------|--------|-------|------------------|-----|-----|-------|-----------------|
| 1,4-Dioxane | ND | | 1 | 3.0 | 1.0 | ug/L | 03/27/2019 1230 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 100 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: UQ11423-002

Matrix: Aqueous

Batch: 11423

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------------------|---------------------|---------------|---|-----|-------|------------------|-----------------|
| 1,4-Dioxane | 50 | 57 | | 1 | 113 | 70-130 | 03/27/2019 1124 |
| Surrogate | Q | % Rec | | | | Acceptance Limit | |
| 1,2-Dichloroethane-d4 | | 97 | | | | 70-130 | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11791-001

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 03/31/2019 1217 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 03/31/2019 1217 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 03/31/2019 1217 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 1217 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 03/31/2019 1217 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 03/31/2019 1217 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11791-001

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 1217 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 101 | 70-130 | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | |
| Toluene-d8 | | 101 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11791-002

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 91 | | 1 | 91 | 60-140 | 03/31/2019 1116 |
| Benzene | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| Bromodichloromethane | 50 | 54 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| Bromoform | 50 | 43 | | 1 | 86 | 70-130 | 03/31/2019 1116 |
| Bromomethane (Methyl bromide) | 50 | 44 | | 1 | 88 | 70-130 | 03/31/2019 1116 |
| 2-Butanone (MEK) | 100 | 98 | | 1 | 98 | 70-130 | 03/31/2019 1116 |
| Carbon disulfide | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| Carbon tetrachloride | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| Chlorobenzene | 50 | 51 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| Chloroethane | 50 | 39 | | 1 | 79 | 70-130 | 03/31/2019 1116 |
| Chloroform | 50 | 52 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Chloromethane (Methyl chloride) | 50 | 47 | | 1 | 93 | 60-140 | 03/31/2019 1116 |
| Cyclohexane | 50 | 61 | | 1 | 122 | 70-130 | 03/31/2019 1116 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 1116 |
| Dibromochloromethane | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| 1,2-Dibromoethane (EDB) | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichlorobenzene | 50 | 51 | | 1 | 102 | 70-130 | 03/31/2019 1116 |
| 1,3-Dichlorobenzene | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 1116 |
| 1,4-Dichlorobenzene | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 1116 |
| Dichlorodifluoromethane | 50 | 50 | | 1 | 100 | 60-140 | 03/31/2019 1116 |
| 1,1-Dichloroethane | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichloroethane | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 1116 |
| 1,1-Dichloroethene | 50 | 57 | | 1 | 114 | 70-130 | 03/31/2019 1116 |
| cis-1,2-Dichloroethene | 50 | 54 | | 1 | 107 | 70-130 | 03/31/2019 1116 |
| trans-1,2-Dichloroethene | 50 | 55 | | 1 | 111 | 70-130 | 03/31/2019 1116 |
| 1,2-Dichloropropane | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 1116 |
| cis-1,3-Dichloropropene | 50 | 57 | | 1 | 113 | 70-130 | 03/31/2019 1116 |
| trans-1,3-Dichloropropene | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| Ethylbenzene | 50 | 52 | | 1 | 105 | 70-130 | 03/31/2019 1116 |
| 2-Hexanone | 100 | 97 | | 1 | 97 | 70-130 | 03/31/2019 1116 |
| Isopropylbenzene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| Methyl acetate | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 1116 |
| Methyl tertiary butyl ether (MTBE) | 50 | 58 | | 1 | 115 | 70-130 | 03/31/2019 1116 |
| 4-Methyl-2-pentanone | 100 | 100 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Methylcyclohexane | 50 | 58 | | 1 | 117 | 70-130 | 03/31/2019 1116 |
| Methylene chloride | 50 | 52 | | 1 | 105 | 70-130 | 03/31/2019 1116 |
| Styrene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 1116 |
| 1,1,2,2-Tetrachloroethane | 50 | 54 | | 1 | 108 | 70-130 | 03/31/2019 1116 |
| Tetrachloroethene | 50 | 50 | | 1 | 99 | 70-130 | 03/31/2019 1116 |
| Toluene | 50 | 55 | | 1 | 109 | 70-130 | 03/31/2019 1116 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 57 | | 1 | 114 | 70-130 | 03/31/2019 1116 |
| 1,2,4-Trichlorobenzene | 50 | 47 | | 1 | 93 | 70-130 | 03/31/2019 1116 |
| 1,1,1-Trichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |
| 1,1,2-Trichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 1116 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11791-002

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------|---------------|---|-----|------------------|-------------|-----------------|
| Trichloroethene | 50 | 56 | | 1 | 111 | 70-130 | 03/31/2019 1116 |
| Trichlorofluoromethane | 50 | 46 | | 1 | 92 | 70-130 | 03/31/2019 1116 |
| Vinyl chloride | 50 | 38 | | 1 | 76 | 70-130 | 03/31/2019 1116 |
| Xylenes (total) | 100 | 100 | | 1 | 104 | 70-130 | 03/31/2019 1116 |
| Surrogate | Q | % Rec | | | Acceptance Limit | | |
| 1,2-Dichloroethane-d4 | | 100 | | | 70-130 | | |
| Bromofluorobenzene | | 98 | | | 70-130 | | |
| Toluene-d8 | | 102 | | | 70-130 | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: UC26062-001MS

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | ND | 1000 | 950 | | 10 | 95 | 60-140 | 03/31/2019 1940 |
| Benzene | ND | 500 | 560 | | 10 | 112 | 70-130 | 03/31/2019 1940 |
| Bromodichloromethane | ND | 500 | 560 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| Bromoform | ND | 500 | 440 | | 10 | 88 | 70-130 | 03/31/2019 1940 |
| Bromomethane (Methyl bromide) | ND | 500 | 550 | | 10 | 110 | 70-130 | 03/31/2019 1940 |
| 2-Butanone (MEK) | ND | 1000 | 1100 | | 10 | 113 | 70-130 | 03/31/2019 1940 |
| Carbon disulfide | ND | 500 | 530 | | 10 | 106 | 70-130 | 03/31/2019 1940 |
| Carbon tetrachloride | ND | 500 | 560 | | 10 | 113 | 70-130 | 03/31/2019 1940 |
| Chlorobenzene | ND | 500 | 530 | | 10 | 106 | 70-130 | 03/31/2019 1940 |
| Chloroethane | ND | 500 | 470 | | 10 | 94 | 70-130 | 03/31/2019 1940 |
| Chloroform | ND | 500 | 530 | | 10 | 107 | 70-130 | 03/31/2019 1940 |
| Chloromethane (Methyl chloride) | ND | 500 | 590 | | 10 | 119 | 60-140 | 03/31/2019 1940 |
| Cyclohexane | ND | 500 | 610 | | 10 | 121 | 70-130 | 03/31/2019 1940 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | 460 | | 10 | 93 | 70-130 | 03/31/2019 1940 |
| Dibromochloromethane | ND | 500 | 560 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| 1,2-Dibromoethane (EDB) | ND | 500 | 590 | | 10 | 117 | 70-130 | 03/31/2019 1940 |
| 1,2-Dichlorobenzene | ND | 500 | 500 | | 10 | 101 | 70-130 | 03/31/2019 1940 |
| 1,3-Dichlorobenzene | ND | 500 | 510 | | 10 | 103 | 70-130 | 03/31/2019 1940 |
| 1,4-Dichlorobenzene | ND | 500 | 510 | | 10 | 102 | 70-130 | 03/31/2019 1940 |
| Dichlorodifluoromethane | ND | 500 | 630 | | 10 | 126 | 60-140 | 03/31/2019 1940 |
| 1,1-Dichloroethane | ND | 500 | 550 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| 1,2-Dichloroethane | ND | 500 | 610 | | 10 | 121 | 70-130 | 03/31/2019 1940 |
| 1,1-Dichloroethene | ND | 500 | 590 | | 10 | 117 | 70-130 | 03/31/2019 1940 |
| cis-1,2-Dichloroethene | 1400 | 500 | 1800 | | 10 | 81 | 70-130 | 03/31/2019 1940 |
| trans-1,2-Dichloroethene | 4.8 | 500 | 570 | | 10 | 113 | 70-130 | 03/31/2019 1940 |
| 1,2-Dichloropropane | ND | 500 | 560 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| cis-1,3-Dichloropropene | ND | 500 | 570 | | 10 | 115 | 70-130 | 03/31/2019 1940 |
| trans-1,3-Dichloropropene | ND | 500 | 560 | | 10 | 113 | 70-130 | 03/31/2019 1940 |
| Ethylbenzene | 32 | 500 | 570 | | 10 | 108 | 70-130 | 03/31/2019 1940 |
| 2-Hexanone | ND | 1000 | 1100 | | 10 | 110 | 70-130 | 03/31/2019 1940 |
| Isopropylbenzene | ND | 500 | 510 | | 10 | 103 | 70-130 | 03/31/2019 1940 |
| Methyl acetate | ND | 500 | 580 | | 10 | 116 | 70-130 | 03/31/2019 1940 |
| Methyl tertiary butyl ether (MTBE) | ND | 500 | 560 | | 10 | 112 | 70-130 | 03/31/2019 1940 |
| 4-Methyl-2-pentanone | ND | 1000 | 1100 | | 10 | 109 | 70-130 | 03/31/2019 1940 |
| Methylcyclohexane | ND | 500 | 590 | | 10 | 117 | 70-130 | 03/31/2019 1940 |
| Methylene chloride | ND | 500 | 550 | | 10 | 110 | 70-130 | 03/31/2019 1940 |
| Styrene | ND | 500 | 530 | | 10 | 107 | 70-130 | 03/31/2019 1940 |
| 1,1,2,2-Tetrachloroethane | ND | 500 | 560 | | 10 | 112 | 70-130 | 03/31/2019 1940 |
| Tetrachloroethene | 4.9 | 500 | 500 | | 10 | 99 | 70-130 | 03/31/2019 1940 |
| Toluene | ND | 500 | 560 | | 10 | 113 | 70-130 | 03/31/2019 1940 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 500 | 570 | | 10 | 115 | 70-130 | 03/31/2019 1940 |
| 1,2,4-Trichlorobenzene | ND | 500 | 390 | | 10 | 77 | 70-130 | 03/31/2019 1940 |
| 1,1,1-Trichloroethane | ND | 500 | 560 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| 1,1,2-Trichloroethane | ND | 500 | 590 | | 10 | 118 | 70-130 | 03/31/2019 1940 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MS

Sample ID: UC26062-001MS

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| Trichloroethene | 6.3 | 500 | 560 | | 10 | 111 | 70-130 | 03/31/2019 1940 |
| Trichlorofluoromethane | ND | 500 | 550 | | 10 | 110 | 70-130 | 03/31/2019 1940 |
| Vinyl chloride | 33 | 500 | 510 | | 10 | 95 | 70-130 | 03/31/2019 1940 |
| Xylenes (total) | 200 | 1000 | 1300 | | 10 | 105 | 70-130 | 03/31/2019 1940 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | |
| Bromofluorobenzene | | 98 | 70-130 | | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: UC26062-001MD

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|---------------------------------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Acetone | ND | 1000 | 1000 | | 10 | 104 | 8.7 | 60-140 | 20 | 03/31/2019 2002 |
| Benzene | ND | 500 | 550 | | 10 | 110 | 1.1 | 70-130 | 20 | 03/31/2019 2002 |
| Bromodichloromethane | ND | 500 | 550 | | 10 | 110 | 0.89 | 70-130 | 20 | 03/31/2019 2002 |
| Bromoform | ND | 500 | 430 | | 10 | 86 | 1.6 | 70-130 | 20 | 03/31/2019 2002 |
| Bromomethane (Methyl bromide) | ND | 500 | 540 | | 10 | 109 | 0.61 | 70-130 | 20 | 03/31/2019 2002 |
| 2-Butanone (MEK) | ND | 1000 | 1200 | | 10 | 119 | 4.7 | 70-130 | 20 | 03/31/2019 2002 |
| Carbon disulfide | ND | 500 | 540 | | 10 | 107 | 0.94 | 70-130 | 20 | 03/31/2019 2002 |
| Carbon tetrachloride | ND | 500 | 580 | | 10 | 115 | 2.2 | 70-130 | 20 | 03/31/2019 2002 |
| Chlorobenzene | ND | 500 | 520 | | 10 | 105 | 0.96 | 70-130 | 20 | 03/31/2019 2002 |
| Chloroethane | ND | 500 | 470 | | 10 | 94 | 0.071 | 70-130 | 20 | 03/31/2019 2002 |
| Chloroform | ND | 500 | 540 | | 10 | 108 | 0.89 | 70-130 | 20 | 03/31/2019 2002 |
| Chloromethane (Methyl chloride) | ND | 500 | 600 | | 10 | 120 | 1.2 | 60-140 | 20 | 03/31/2019 2002 |
| Cyclohexane | ND | 500 | 610 | | 10 | 122 | 0.51 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 500 | 490 | | 10 | 97 | 4.7 | 70-130 | 20 | 03/31/2019 2002 |
| Dibromochloromethane | ND | 500 | 560 | | 10 | 111 | 0.046 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2-Dibromoethane (EDB) | ND | 500 | 580 | | 10 | 116 | 0.78 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2-Dichlorobenzene | ND | 500 | 490 | | 10 | 99 | 2.1 | 70-130 | 20 | 03/31/2019 2002 |
| 1,3-Dichlorobenzene | ND | 500 | 510 | | 10 | 101 | 1.9 | 70-130 | 20 | 03/31/2019 2002 |
| 1,4-Dichlorobenzene | ND | 500 | 500 | | 10 | 101 | 1.5 | 70-130 | 20 | 03/31/2019 2002 |
| Dichlorodifluoromethane | ND | 500 | 630 | | 10 | 125 | 0.46 | 60-140 | 20 | 03/31/2019 2002 |
| 1,1-Dichloroethane | ND | 500 | 560 | | 10 | 112 | 0.72 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2-Dichloroethane | ND | 500 | 610 | | 10 | 122 | 0.35 | 70-130 | 20 | 03/31/2019 2002 |
| 1,1-Dichloroethene | ND | 500 | 580 | | 10 | 116 | 0.84 | 70-130 | 20 | 03/31/2019 2002 |
| cis-1,2-Dichloroethene | 1400 | 500 | 1800 | | 10 | 87 | 1.7 | 70-130 | 20 | 03/31/2019 2002 |
| trans-1,2-Dichloroethene | 4.8 | 500 | 570 | | 10 | 113 | 0.15 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2-Dichloropropane | ND | 500 | 550 | | 10 | 110 | 1.3 | 70-130 | 20 | 03/31/2019 2002 |
| cis-1,3-Dichloropropene | ND | 500 | 560 | | 10 | 113 | 1.5 | 70-130 | 20 | 03/31/2019 2002 |
| trans-1,3-Dichloropropene | ND | 500 | 560 | | 10 | 112 | 0.82 | 70-130 | 20 | 03/31/2019 2002 |
| Ethylbenzene | 32 | 500 | 560 | | 10 | 106 | 2.3 | 70-130 | 20 | 03/31/2019 2002 |
| 2-Hexanone | ND | 1000 | 1100 | | 10 | 106 | 4.1 | 70-130 | 20 | 03/31/2019 2002 |
| Isopropylbenzene | ND | 500 | 510 | | 10 | 102 | 0.52 | 70-130 | 20 | 03/31/2019 2002 |
| Methyl acetate | ND | 500 | 630 | | 10 | 126 | 7.8 | 70-130 | 20 | 03/31/2019 2002 |
| Methyl tertiary butyl ether (MTBE) | ND | 500 | 580 | | 10 | 116 | 3.6 | 70-130 | 20 | 03/31/2019 2002 |
| 4-Methyl-2-pentanone | ND | 1000 | 1100 | | 10 | 105 | 3.2 | 70-130 | 20 | 03/31/2019 2002 |
| Methylcyclohexane | ND | 500 | 580 | | 10 | 116 | 1.4 | 70-130 | 20 | 03/31/2019 2002 |
| Methylene chloride | ND | 500 | 550 | | 10 | 110 | 0.44 | 70-130 | 20 | 03/31/2019 2002 |
| Styrene | ND | 500 | 530 | | 10 | 105 | 1.1 | 70-130 | 20 | 03/31/2019 2002 |
| 1,1,2,2-Tetrachloroethane | ND | 500 | 570 | | 10 | 113 | 1.1 | 70-130 | 20 | 03/31/2019 2002 |
| Tetrachloroethene | 4.9 | 500 | 500 | | 10 | 98 | 1.2 | 70-130 | 20 | 03/31/2019 2002 |
| Toluene | ND | 500 | 560 | | 10 | 112 | 0.70 | 70-130 | 20 | 03/31/2019 2002 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | 500 | 570 | | 10 | 115 | 0.011 | 70-130 | 20 | 03/31/2019 2002 |
| 1,2,4-Trichlorobenzene | ND | 500 | 390 | | 10 | 77 | 0.11 | 70-130 | 20 | 03/31/2019 2002 |
| 1,1,1-Trichloroethane | ND | 500 | 560 | | 10 | 113 | 1.3 | 70-130 | 20 | 03/31/2019 2002 |
| 1,1,2-Trichloroethane | ND | 500 | 580 | | 10 | 116 | 2.1 | 70-130 | 20 | 03/31/2019 2002 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: UC26062-001MD

Matrix: Aqueous

Batch: 11791

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|------------------------|----------------------|---------------------|------------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Trichloroethene | 6.3 | 500 | 560 | | 10 | 111 | 0.19 | 70-130 | 20 | 03/31/2019 2002 |
| Trichlorofluoromethane | ND | 500 | 560 | | 10 | 112 | 1.7 | 70-130 | 20 | 03/31/2019 2002 |
| Vinyl chloride | 33 | 500 | 510 | | 10 | 96 | 0.61 | 70-130 | 20 | 03/31/2019 2002 |
| Xylenes (total) | 200 | 1000 | 1200 | | 10 | 104 | 1.1 | 70-130 | 20 | 03/31/2019 2002 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | | | | |
| Bromofluorobenzene | | 97 | 70-130 | | | | | | | |
| Toluene-d8 | | 103 | 70-130 | | | | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - MB

Sample ID: UQ12018-001

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Ethane | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Ethene | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Methane | ND | | 1 | 10 | 2.5 | ug/L | 04/02/2019 1033 |
| Propane | ND | | 1 | 15 | 5.0 | ug/L | 04/02/2019 1033 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCS

Sample ID: UQ12018-002

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Ethane | 280 | 320 | | 1 | 113 | 70-130 | 04/02/2019 1002 |
| Ethene | 260 | 280 | | 1 | 107 | 70-130 | 04/02/2019 1002 |
| Methane | 150 | 170 | | 1 | 111 | 70-130 | 04/02/2019 1002 |
| Propane | 420 | 480 | | 1 | 116 | 70-130 | 04/02/2019 1002 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCSD

Sample ID: UQ12018-003

Matrix: Aqueous

Batch: 12018

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Ethane | 280 | 320 | | 1 | 113 | 0.43 | 70-130 | 30 | 04/02/2019 1014 |
| Ethene | 260 | 290 | | 1 | 109 | 2.6 | 70-130 | 30 | 04/02/2019 1014 |
| Methane | 150 | 170 | | 1 | 110 | 1.0 | 70-130 | 30 | 04/02/2019 1014 |
| Propane | 420 | 480 | | 1 | 115 | 1.2 | 70-130 | 30 | 04/02/2019 1014 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - MB

Sample ID: UQ12263-001

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Ethane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Ethene | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Methane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Propane | ND | | 1 | 15 | 5.0 | ug/L | 04/04/2019 1450 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCS

Sample ID: UQ12263-002

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 70-130 | 04/04/2019 1313 |
| Ethene | 520 | 550 | | 1 | 107 | 70-130 | 04/04/2019 1313 |
| Methane | 300 | 330 | | 1 | 111 | 70-130 | 04/04/2019 1313 |
| Propane | 810 | 900 | | 1 | 110 | 70-130 | 04/04/2019 1313 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Dissolved Gases - LCSD

Sample ID: UQ12263-003

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 0.77 | 70-130 | 30 | 04/04/2019 1326 |
| Ethene | 520 | 560 | | 1 | 108 | 0.97 | 70-130 | 30 | 04/04/2019 1326 |
| Methane | 300 | 330 | | 1 | 111 | 0.28 | 70-130 | 30 | 04/04/2019 1326 |
| Propane | 810 | 900 | | 1 | 111 | 0.93 | 70-130 | 30 | 04/04/2019 1326 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody
and
Miscellaneous Documents



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Number

91447

Client: **EARTHCON**
 Address: **1800 WEST OAK PKWY**
 City: **Monetta** State: **GA** Zip Code: **30007**
 Project Name: **Lennox International**
 Project No.: **02-20160378** P.O. No.:
 Sample ID / Description
 (Containers for each sample may be combined on one line.)

Report to Control: **Carol Northern**
 Sampling Signature: **Tiffany Messier**
 Printed Name: **Tiffany Messier**

Telephone No. / E-mail: **703-913-2100 carolnorthern@earthcon.com**
 Analysis (Attach list if more space is needed):
 VDC
 1,4-Dioxane
 Diss. Gases
 TDC
 NO3/NO2/CO/HC
 Sulfate

Quote No. _____ Page _____ of _____

LID: **UC26062** Remains / Cooler I.D.:

| Sample ID / Description | Date | Time | Matrix | | | | No. of Containers by Preservation Type | Possible Hazard Identification | | | QC Requirements (Specify) | | | | | | | |
|-------------------------|---------|------|-------------|----------|--------|----------|--|--------------------------------|-----------|---------------|---------------------------|---------|------|------|--|--|--|--|
| | | | As Received | Unopened | Opened | Reopened | | Non-Hazard | Flammable | Skin Irritant | Poison | Unknown | Date | Time | | | | |
| MW-1 | 3/26/17 | | | | | | 1 | | | | | | | | | | | |
| MW-1D | | | | | | | 1 | | | | | | | | | | | |
| MW-2 | | | | | | | 1 | | | | | | | | | | | |
| MW-2D | | | | | | | 1 | | | | | | | | | | | |
| DMP-01 | | | | | | | 1 | | | | | | | | | | | |
| MW-7 | 3/26/17 | | | | | | 1 | | | | | | | | | | | |
| TRIP blank LOT | 3/26/17 | | | | | | 2 | | | | | | | | | | | |

Turn-Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify)
 1. Relinquished by: **Tiffany Messier** Date: **3/26/17** Time: **1620**
 2. Relinquished by: _____ Date: _____ Time: _____
 3. Relinquished by: _____ Date: _____ Time: _____
 4. Relinquished by: _____ Date: _____ Time: _____

3. Received by: _____ Date: _____ Time: _____
 4. Laboratory received by: **Messier by Carol** Date: **3/26/17** Time: **1620**

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) **(Yes)** No Ice Pack Receipt Temp: **2.2** C

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: EARTHCON Cooler Inspected by/date: MEC / 03-26-2019 Lot #: UC26062

| | |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____ | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 1. Were custody seals present on the cooler? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 2. If custody seals were present, were they intact and unbroken? |
| pH Strip ID: <u>18-2225</u> Chlorine Strip ID: <u>19-152</u> Tested by: <u>LKH</u> | |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>LKII</u> <u>2.2 / 2.2</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C | |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C | |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 4. Is the commercial courier's packing slip attached to this form? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Were proper custody procedures (relinquished/received) followed? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 6. Were sample IDs listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 7. Were sample IDs listed on all sample containers? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 8. Was collection date & time listed on the COC? NO COLLECTION TIMES |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 9. Was collection date & time listed on all sample containers? NOT ALL |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. Did all container label information (ID, date, time) agree with the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 11. Were tests to be performed listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____ |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 13. Was adequate sample volume available? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 17. Were all DRO/metals/nutrient samples received at a pH of < 2? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 19. Were all applicable NH ₃ /TKN/cyanide/phcnol/625 (< 0.5mg/L) samples free of residual chlorine? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 21. Was the quote number listed on the container label? If yes, Quote # _____ |
| Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) | |
| Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u> . Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below. | |
| Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter. | |
| Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> . | |
| SR barcode labels applied by: <u>LKH</u> Date: <u>03-26-2019</u> | |

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Carol Northern

Project Name: Lennox International

Lot Number: **UC27069**
Date Completed: 04/05/2019



04/08/2019 2:13 PM
Approved and released by:
Lab Director - Greenville: Lucas Odom



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Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative EarthCon Consultants, Inc. Lot Number: UC27069

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs by GC/MS

The laboratory control sample (LCS) for analytical batch 11807 exceeded acceptance criteria for Dichlorodifluoromethane. This analyte is biased high but not detected in the samples affected.

Samples in batch UQ11807 were not analyzed with a MS/MSD due to an instrument error. The LCS passed criteria, and the data has been reported.

Sulfide

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 12039. An LCS/LCSD was run in lieu of an MS/MSD. A sample duplicate was performed alongside the LCS/LCSD.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary EarthCon Consultants, Inc. Lot Number: UC27069

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|-----------|---------|-----------------|---------------|
| 001 | MW-10 | Aqueous | 03/27/2019 1025 | 03/27/2019 |
| 002 | MW-14 | Aqueous | 03/27/2019 0910 | 03/27/2019 |
| 003 | MW-3 | Aqueous | 03/27/2019 1040 | 03/27/2019 |
| 004 | MW-3D | Aqueous | 03/27/2019 1000 | 03/27/2019 |
| 005 | TB-01 | Aqueous | 03/27/2019 | 03/27/2019 |

(5 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary EarthCon Consultants, Inc. Lot Number: UC27069

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|-----------|---------|--------------------------|---------------|--------|---|-------|------|
| 001 | MW-10 | Aqueous | Chloride | 9056A | 6.7 | | mg/L | 5 |
| 001 | MW-10 | Aqueous | Sulfate | 9056A | 19 | | mg/L | 5 |
| 001 | MW-10 | Aqueous | TOC | 9060A | 2.0 | | mg/L | 5 |
| 001 | MW-10 | Aqueous | Acetone | 8260B | 3.5 | J | ug/L | 5 |
| 001 | MW-10 | Aqueous | Methane | RSK - 175 | 65 | | ug/L | 7 |
| 002 | MW-14 | Aqueous | Chloride | 9056A | 2.0 | | mg/L | 8 |
| 002 | MW-14 | Aqueous | Sulfate | 9056A | 16 | | mg/L | 8 |
| 002 | MW-14 | Aqueous | TOC | 9060A | 0.81 | J | mg/L | 8 |
| 002 | MW-14 | Aqueous | Acetone | 8260B | 4.7 | J | ug/L | 8 |
| 002 | MW-14 | Aqueous | Methane | RSK - 175 | 100 | | ug/L | 10 |
| 003 | MW-3 | Aqueous | Chloride | 9056A | 33 | | mg/L | 11 |
| 003 | MW-3 | Aqueous | Sulfate | 9056A | 0.92 | J | mg/L | 11 |
| 003 | MW-3 | Aqueous | Sulfide | SM 4500-S2 F- | 3.5 | | mg/L | 11 |
| 003 | MW-3 | Aqueous | TOC | 9060A | 11 | | mg/L | 11 |
| 003 | MW-3 | Aqueous | 1,1-Dichloroethane | 8260B | 1100 | | ug/L | 11 |
| 003 | MW-3 | Aqueous | 1,1-Dichloroethene | 8260B | 540 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | cis-1,2-Dichloroethene | 8260B | 15000 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | trans-1,2-Dichloroethene | 8260B | 120 | J | ug/L | 12 |
| 003 | MW-3 | Aqueous | Ethylbenzene | 8260B | 310 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | Toluene | 8260B | 97 | J | ug/L | 12 |
| 003 | MW-3 | Aqueous | Vinyl chloride | 8260B | 900 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | Xylenes (total) | 8260B | 1200 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | 1,4-Dioxane | 8260B (SIM) | 310 | | ug/L | 12 |
| 003 | MW-3 | Aqueous | Ethane | RSK - 175 | 18 | J | ug/L | 13 |
| 003 | MW-3 | Aqueous | Ethene | RSK - 175 | 76 | | ug/L | 13 |
| 003 | MW-3 | Aqueous | Methane | RSK - 175 | 11000 | | ug/L | 13 |
| 004 | MW-3D | Aqueous | Chloride | 9056A | 17 | | mg/L | 14 |
| 004 | MW-3D | Aqueous | Nitrate - N | 9056A | 4.9 | | mg/L | 14 |
| 004 | MW-3D | Aqueous | Sulfate | 9056A | 2.8 | | mg/L | 14 |
| 004 | MW-3D | Aqueous | Acetone | 8260B | 2.8 | J | ug/L | 14 |
| 004 | MW-3D | Aqueous | Chloroform | 8260B | 0.46 | J | ug/L | 14 |
| 004 | MW-3D | Aqueous | Methane | RSK - 175 | 2.9 | J | ug/L | 16 |
| 005 | TB-01 | Aqueous | Acetone | 8260B | 2.8 | J | ug/L | 17 |

(33 detections)

Description: MW-10

Matrix: Aqueous

Date Sampled: 03/27/2019 1025

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1412 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 0947 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 0947 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 0947 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 0943 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 6.7 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 19 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 2.0 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0300 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 3.5 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 1.975 - 2.077

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-10

Matrix: Aqueous

Date Sampled: 03/27/2019 1025

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0300 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 93 | 70-130 |
| Toluene-d8 | | 104 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1235 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1607 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 65 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-14

Matrix: Aqueous

Date Sampled: 03/27/2019 0910

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1421 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1013 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1013 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1013 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1016 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.0 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 16 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.81 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0321 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 4.7 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.761 - 0.873

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0321 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 104 | 70-130 |
| Bromofluorobenzene | | 94 | 70-130 |
| Toluene-d8 | | 102 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1259 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1623 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 100 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1424 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1039 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1039 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1039 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1154 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 33 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 0.92 | J | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | 3.5 | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 11 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 200 | 04/01/2019 0510 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|------|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 4000 | 400 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 400 | 80 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 2000 | 400 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 400 | 80 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 200 | 100 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 200 | 80 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 400 | 120 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 1100 | | 200 | 80 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 200 | 80 | ug/L | 1 |

TOC Range: 11.005 - 11.627

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 200 | 04/01/2019 0510 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | 540 | | 200 | 80 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 15000 | | 200 | 80 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 120 | J | 200 | 80 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | 310 | | 200 | 80 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 2000 | 400 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 2000 | 400 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 1000 | 80 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 200 | 82 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | 97 | J | 200 | 80 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 200 | 84 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 200 | 80 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 900 | | 200 | 80 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | 1200 | | 200 | 80 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 5 | 04/01/2019 1955 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | 310 | | 15 | 5.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-3

Matrix: Aqueous

Date Sampled: 03/27/2019 1040

Date Received: 03/27/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|----------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 98 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 5 | 04/04/2019 1639 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|---------------|----------------------|--------|---|-----|----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | 18 | J | 50 | 13 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | 76 | | 50 | 13 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 11000 | | 50 | 13 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 75 | 25 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: MW-3D

Matrix: Aqueous

Date Sampled: 03/27/2019 1000

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1427 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1105 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1105 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1105 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1228 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 4.9 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 2.8 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0343 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 2.8 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | 0.46 | J | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.127 - 0.242

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0343 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|---------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 107 | 70-130 |
| Bromofluorobenzene | | 95 | 70-130 |
| Toluene-d8 | | 105 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1324 | JJG | | 11870 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

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Description: MW-3D

Matrix: Aqueous

Date Sampled: 03/27/2019 1000

Date Received: 03/27/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|----------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1655 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2.9 | J | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: TB-01

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 03/31/2019 2300 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 2.8 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,1,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 1 | 03/31/2019 2300 | KGT | | 11807 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 105 | 70-130 | | | | | | |
| Bromofluorobenzene | | 95 | 70-130 | | | | | | |
| Toluene-d8 | | 103 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

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QC Summary

Inorganic non-metals - MB

Sample ID: UQ11591-001

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Chloride | ND | | 1 | 1.0 | 0.20 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11591-002

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 20 | 20 | | 1 | 101 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11592-001

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-------------|--------|---|-----|-------|--------|-------|-----------------|
| Nitrate - N | ND | | 1 | 0.020 | 0.0050 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11592-002

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | 0.80 | 0.79 | | 1 | 99 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11593-001

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Sulfate | ND | | 1 | 1.0 | 0.20 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11593-002

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 20 | 20 | | 1 | 102 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11671-001

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| TOC | ND | | 1 | 1.0 | 0.42 | mg/L | 03/29/2019 2240 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11671-002

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | 20 | 20 | | 1 | 99 | 90-110 | 03/29/2019 2312 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12031-001

Matrix: Aqueous

Batch: 12031

Analytical Method: SM 2320B-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------|--------|---|-----|-----|----|-------|-----------------|
| Alkalinity | ND | | 1 | 20 | 20 | mg/L | 03/30/2019 1331 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ12031-002

Matrix: Aqueous

Batch: 12031

Analytical Method: SM 2320B-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | 100 | 110 | | 1 | 107 | 90-110 | 03/30/2019 1337 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - Duplicate

Sample ID: UC27069-001DU

Matrix: Aqueous

Batch: 12031

Analytical Method: SM 2320B-2011

| Parameter | Sample Amount (mg/L) | Result (mg/L) | Q | Dil | % RPD | % RPD Limit | Analysis Date |
|------------|----------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | ND | ND | | 1 | 0.00 | 20 | 03/30/2019 1416 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12039-001

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Sulfide | ND | | 1 | 1.0 | 1.0 | mg/L | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ12039-002

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfide | 10 | 9.3 | | 1 | 93 | 80-120 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCSD

Sample ID: UQ12039-003

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfide | 10 | 9.8 | | 1 | 98 | 5.2 | 80-120 | 20 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11807-001

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 03/31/2019 2156 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 03/31/2019 2156 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 03/31/2019 2156 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 03/31/2019 2156 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 03/31/2019 2156 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11807-001

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11807-002

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 100 | | 1 | 104 | 60-140 | 03/31/2019 2112 |
| Benzene | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| Bromodichloromethane | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 2112 |
| Bromoform | 50 | 46 | | 1 | 93 | 70-130 | 03/31/2019 2112 |
| Bromomethane (Methyl bromide) | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 2112 |
| 2-Butanone (MEK) | 100 | 110 | | 1 | 113 | 70-130 | 03/31/2019 2112 |
| Carbon disulfide | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 2112 |
| Carbon tetrachloride | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| Chlorobenzene | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| Chloroethane | 50 | 49 | | 1 | 99 | 70-130 | 03/31/2019 2112 |
| Chloroform | 50 | 56 | | 1 | 111 | 70-130 | 03/31/2019 2112 |
| Chloromethane (Methyl chloride) | 50 | 65 | | 1 | 130 | 60-140 | 03/31/2019 2112 |
| Cyclohexane | 50 | 64 | | 1 | 129 | 70-130 | 03/31/2019 2112 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 2112 |
| Dibromochloromethane | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,2-Dibromoethane (EDB) | 50 | 61 | | 1 | 122 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichlorobenzene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 2112 |
| 1,3-Dichlorobenzene | 50 | 53 | | 1 | 106 | 70-130 | 03/31/2019 2112 |
| 1,4-Dichlorobenzene | 50 | 53 | | 1 | 106 | 70-130 | 03/31/2019 2112 |
| Dichlorodifluoromethane | 50 | 77 | N | 1 | 153 | 60-140 | 03/31/2019 2112 |
| 1,1-Dichloroethane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichloroethane | 50 | 64 | | 1 | 128 | 70-130 | 03/31/2019 2112 |
| 1,1-Dichloroethene | 50 | 61 | | 1 | 121 | 70-130 | 03/31/2019 2112 |
| cis-1,2-Dichloroethene | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| trans-1,2-Dichloroethene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichloropropane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| cis-1,3-Dichloropropene | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| trans-1,3-Dichloropropene | 50 | 60 | | 1 | 119 | 70-130 | 03/31/2019 2112 |
| Ethylbenzene | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 2112 |
| 2-Hexanone | 100 | 110 | | 1 | 107 | 70-130 | 03/31/2019 2112 |
| Isopropylbenzene | 50 | 54 | | 1 | 107 | 70-130 | 03/31/2019 2112 |
| Methyl acetate | 50 | 63 | | 1 | 126 | 70-130 | 03/31/2019 2112 |
| Methyl tertiary butyl ether (MTBE) | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| 4-Methyl-2-pentanone | 100 | 110 | | 1 | 108 | 70-130 | 03/31/2019 2112 |
| Methylcyclohexane | 50 | 63 | | 1 | 126 | 70-130 | 03/31/2019 2112 |
| Methylene chloride | 50 | 57 | | 1 | 113 | 70-130 | 03/31/2019 2112 |
| Styrene | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| 1,1,2,2-Tetrachloroethane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| Tetrachloroethene | 50 | 53 | | 1 | 105 | 70-130 | 03/31/2019 2112 |
| Toluene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 61 | | 1 | 123 | 70-130 | 03/31/2019 2112 |
| 1,2,4-Trichlorobenzene | 50 | 42 | | 1 | 83 | 70-130 | 03/31/2019 2112 |
| 1,1,1-Trichloroethane | 50 | 59 | | 1 | 119 | 70-130 | 03/31/2019 2112 |
| 1,1,2-Trichloroethane | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11807-002

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------|---------------|---|-----|------------------|-------------|-----------------|
| Trichloroethene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| Trichlorofluoromethane | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| Vinyl chloride | 50 | 53 | | 1 | 105 | 70-130 | 03/31/2019 2112 |
| Xylenes (total) | 100 | 110 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| Surrogate | Q | % Rec | | | Acceptance Limit | | |
| 1,2-Dichloroethane-d4 | | 103 | | | 70-130 | | |
| Bromofluorobenzene | | 98 | | | 70-130 | | |
| Toluene-d8 | | 104 | | | 70-130 | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: UQ11870-001

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------------------|--------|-------|------------------|-----|-----|-------|-----------------|
| 1,4-Dioxane | ND | | 1 | 3.0 | 1.0 | ug/L | 04/01/2019 1140 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: UQ11870-002

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------------------|---------------------|---------------|---|-----|-------|------------------|-----------------|
| 1,4-Dioxane | 50 | 59 | | 1 | 117 | 70-130 | 04/01/2019 1051 |
| Surrogate | Q | % Rec | | | | Acceptance Limit | |
| 1,2-Dichloroethane-d4 | | 95 | | | | 70-130 | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MS

Sample ID: UC27069-003MS

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------------------|----------------------|---------------------|------------------|---|-----|-------|-------------|-----------------|
| 1,4-Dioxane | 310 | 250 | 510 | | 5 | 83 | 43-173 | 04/01/2019 2020 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | | |
| 1,2-Dichloroethane-d4 | | 103 | 70-130 | | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MSD

Sample ID: UC27069-003MD

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Sample Amount (ug/L) | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------------------|-------------------------|------------------------|---------------------|---|-----|-------|-------|----------------|----------------|-----------------|
| 1,4-Dioxane | 310 | 250 | 520 | | 5 | 85 | 0.68 | 43-173 | 20 | 04/01/2019 2044 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | | | | |
| 1,2-Dichloroethane-d4 | | 99 | 70-130 | | | | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - MB

Sample ID: UQ12263-001

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Ethane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Ethene | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Methane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Propane | ND | | 1 | 15 | 5.0 | ug/L | 04/04/2019 1450 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCS

Sample ID: UQ12263-002

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 70-130 | 04/04/2019 1313 |
| Ethene | 520 | 550 | | 1 | 107 | 70-130 | 04/04/2019 1313 |
| Methane | 300 | 330 | | 1 | 111 | 70-130 | 04/04/2019 1313 |
| Propane | 810 | 900 | | 1 | 110 | 70-130 | 04/04/2019 1313 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Dissolved Gases - LCSD

Sample ID: UQ12263-003

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 0.77 | 70-130 | 30 | 04/04/2019 1326 |
| Ethene | 520 | 560 | | 1 | 108 | 0.97 | 70-130 | 30 | 04/04/2019 1326 |
| Methane | 300 | 330 | | 1 | 111 | 0.28 | 70-130 | 30 | 04/04/2019 1326 |
| Propane | 810 | 900 | | 1 | 111 | 0.93 | 70-130 | 30 | 04/04/2019 1326 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Chain of Custody
and
Miscellaneous Documents

91448

Number

SHEALY ENVIRONMENTAL SERVICES, INC.
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.shealylab.com

Chain of Custody Record



| | | | |
|---|---|--|---------------------------|
| Client EPHRECAL | Report to Contact Coral Lippert | Telephone No. / E-mail 770-978-2100 c.lippert@ephracal.com | Quote No. 1 |
| Address 1880 Parkside West Oak Pkwy | Sampler's Signature <i>Tiffany Messier</i> | Analyst (Attach list if more analysts are needed) | Page 1 of 1 |
| City Marlatta | Printed Name Tiffany Messier | | |
| State GA | | | |
| Zip Code 30067 | | | |
| Project Name Lennex Interpersonal | | | |
| Project No. | P.C. No. | | |

| Sample ID / Description (Containers for each sample may be combined on one line.) | Date | Time | Matrix | | | | | | No. of Containers by Preservation Type | OC Requirements (Specify) | | | | | | | | | | |
|--|---------|-------|----------|------|-----|---------|-----|-----|---|---------------------------|----------|-------------|--|--|--|--|--|--|--|--|
| | | | Asbestos | Lead | PCB | Mercury | HCB | PAH | | | HCHO | NOX | | | | | | | | |
| MW-10 | 3/27/19 | 10:25 | | | | | | | 1 | 1 | VOC | 1/4 Dioxane | | | | | | | | |
| MW-14 | 3/27/19 | 09:10 | | | | | | | 1 | 1 | DIS. GAS | MS/SD/CH/PC | | | | | | | | |
| MW-3 | 3/27/19 | 10:40 | | | | | | | 1 | 1 | | | | | | | | | | |
| MW-3D | 3/27/19 | 10:00 | | | | | | | 1 | 1 | | | | | | | | | | |
| TB-01 | 3/27/19 | — | | | | | | | 2 | 2 | | | | | | | | | | |

| Turn Around Time Required (Prior lab approval required for expedited TAT.) | Sample Disposal | Positive Hazard Identification | OC Requirements (Specify) |
|--|--|---|---------------------------|
| Standard <input type="checkbox"/> Rush <input type="checkbox"/> (Specify) | Return to Client <input type="checkbox"/> Discard by Lab <input checked="" type="checkbox"/> | Non-Hazard <input checked="" type="checkbox"/> Flammable <input type="checkbox"/> Poison <input type="checkbox"/> Unknown | Date |
| 1. Relinquished by <i>Tiffany Messier</i> | 3/27/19 1730 | 1. Received by | Date |
| 2. Relinquished by | Time | 2. Received by | Date |
| 3. Relinquished by | Date | 3. Received by | Date |
| 4. Relinquished by | Date | 4. Laboratory received by <i>Eric Brown</i> | Date |

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) **(Yes)** No Ice Pack **(Yes)** No Receipt Temp. **13** °C

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: MF0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: EARTHICON Cooler Inspected by/date: LKH / 03-27-2019 Lot #: UC27069

| | |
|--|---|
| Means of receipt: <input type="checkbox"/> SESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____ | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 1. Were custody seals present on the cooler? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 2. If custody seals were present, were they intact and unbroken? |
| pH Strip ID: <u>18-2225</u> Chlorine Strip ID: <u>19-152</u> Tested by: <u>LKH</u> | |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>NA</u> | |
| <u>1.3 / 1.3</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C | |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C | |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 4. Is the commercial courier's packing slip attached to this form? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Were proper custody procedures (relinquished/received) followed? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 6. Were sample IDs listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 7. Were sample IDs listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. Was collection date & time listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. Was collection date & time listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. Did all container label information (ID, date, time) agree with the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 11. Were tests to be performed listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 13. Was adequate sample volume available? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 17. Were all DRO/metals/nutrient samples received at a pH of < 2? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 21. Was the quote number listed on the container label? If yes, Quote # |
| Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) | |
| Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u> . | |
| Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below. | |
| Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter. | |
| Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> . | |
| SR barcode labels applied by: <u>LKH</u> Date: <u>03-27-2019</u> | |

Comments:

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

EarthCon Consultants, Inc.
1880 West Oak Parkway
Building 100, Suite 106
Marietta, GA 30062
Attention: Carol Northern

Project Name: Lennox
Project Number: 02.20160378.00
Lot Number: **UC27071**
Date Completed: 04/05/2019



04/08/2019 2:15 PM
Approved and released by:
Lab Director - Greenville: Lucas Odom



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Shealy Environmental Services, Inc.
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SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative EarthCon Consultants, Inc. Lot Number: UC27071

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs by G/MS

The laboratory control sample (LCS) for analytical batch 11807 exceeded acceptance criteria for Dichlorodifluoromethane. This analyte is biased high but not detected in the samples affected.

Samples in batch UQ11807 were not analyzed with a MS/MSD due to an instrument error. The LCS passed criteria, and the data has been reported.

The continuing calibration verification (CCV) associated with samples UC27071-001, UC27071-003, UC27071-004, UC27071-005, UC27071-006 recovered Acetone above the upper control limit. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data has been reported.

The laboratory control sample (LCS) for analytical batch 12007 exceeded acceptance criteria for Acetone. This analytes is biased high but not detected in the samples affected.

Sulfide

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 12039. An LCS/LCSD was run in lieu of an MS/MSD. A sample duplicate was performed alongside the LCS/LCSD.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
EarthCon Consultants, Inc.
Lot Number: UC27071

| Sample Number | Sample ID | Matrix | Date Sampled | Date Received |
|---------------|-----------|---------|-----------------|---------------|
| 001 | MW-4 | Aqueous | 03/27/2019 1410 | 03/27/2019 |
| 002 | MW-4D | Aqueous | 03/27/2019 1450 | 03/27/2019 |
| 003 | MW-5 | Aqueous | 03/27/2019 1600 | 03/27/2019 |
| 004 | DUP-02 | Aqueous | 03/27/2019 | 03/27/2019 |
| 005 | TB-02 | Aqueous | 03/27/2019 | 03/27/2019 |
| 006 | MW-11 | Aqueous | 03/27/2019 1220 | 03/27/2019 |

(6 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Detection Summary EarthCon Consultants, Inc. Lot Number: UC27071

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|-----------|---------|--------------------------|-------------|--------|---|-------|------|
| 001 | MW-4 | Aqueous | Chloride | 9056A | 8.3 | | mg/L | 7 |
| 001 | MW-4 | Aqueous | Sulfate | 9056A | 12 | | mg/L | 7 |
| 001 | MW-4 | Aqueous | TOC | 9060A | 0.71 | J | mg/L | 7 |
| 001 | MW-4 | Aqueous | Acetone | 8260B | 4.2 | J | ug/L | 7 |
| 001 | MW-4 | Aqueous | cis-1,2-Dichloroethene | 8260B | 4.1 | | ug/L | 8 |
| 001 | MW-4 | Aqueous | Tetrachloroethene | 8260B | 2.4 | | ug/L | 8 |
| 001 | MW-4 | Aqueous | 1,1,2-Trichloroethane | 8260B | 0.67 | J | ug/L | 8 |
| 001 | MW-4 | Aqueous | Trichloroethene | 8260B | 4.6 | | ug/L | 8 |
| 001 | MW-4 | Aqueous | Methane | RSK - 175 | 3.3 | J | ug/L | 9 |
| 002 | MW-4D | Aqueous | Chloride | 9056A | 1.8 | | mg/L | 10 |
| 002 | MW-4D | Aqueous | Nitrate - N | 9056A | 0.065 | | mg/L | 10 |
| 002 | MW-4D | Aqueous | Sulfate | 9056A | 2.9 | | mg/L | 10 |
| 002 | MW-4D | Aqueous | Acetone | 8260B | 2.9 | J | ug/L | 10 |
| 002 | MW-4D | Aqueous | Tetrachloroethene | 8260B | 19 | | ug/L | 11 |
| 002 | MW-4D | Aqueous | Trichloroethene | 8260B | 0.53 | J | ug/L | 11 |
| 003 | MW-5 | Aqueous | Chloride | 9056A | 17 | | mg/L | 13 |
| 003 | MW-5 | Aqueous | Nitrate - N | 9056A | 0.61 | | mg/L | 13 |
| 003 | MW-5 | Aqueous | Sulfate | 9056A | 3.3 | | mg/L | 13 |
| 003 | MW-5 | Aqueous | TOC | 9060A | 0.52 | J | mg/L | 13 |
| 003 | MW-5 | Aqueous | 1,1-Dichloroethane | 8260B | 4.6 | J | ug/L | 13 |
| 003 | MW-5 | Aqueous | cis-1,2-Dichloroethene | 8260B | 320 | | ug/L | 14 |
| 003 | MW-5 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.9 | J | ug/L | 14 |
| 003 | MW-5 | Aqueous | Tetrachloroethene | 8260B | 130 | | ug/L | 14 |
| 003 | MW-5 | Aqueous | Trichloroethene | 8260B | 250 | | ug/L | 14 |
| 003 | MW-5 | Aqueous | Vinyl chloride | 8260B | 3.5 | J | ug/L | 14 |
| 003 | MW-5 | Aqueous | 1,4-Dioxane | 8260B (SIM) | 9.7 | | ug/L | 14 |
| 003 | MW-5 | Aqueous | Methane | RSK - 175 | 2200 | | ug/L | 15 |
| 004 | DUP-02 | Aqueous | Chloride | 9056A | 17 | | mg/L | 16 |
| 004 | DUP-02 | Aqueous | Nitrate - N | 9056A | 0.60 | | mg/L | 16 |
| 004 | DUP-02 | Aqueous | Sulfate | 9056A | 4.0 | | mg/L | 16 |
| 004 | DUP-02 | Aqueous | TOC | 9060A | 0.60 | J | mg/L | 16 |
| 004 | DUP-02 | Aqueous | 1,1-Dichloroethane | 8260B | 5.2 | | ug/L | 16 |
| 004 | DUP-02 | Aqueous | cis-1,2-Dichloroethene | 8260B | 310 | | ug/L | 17 |
| 004 | DUP-02 | Aqueous | trans-1,2-Dichloroethene | 8260B | 2.8 | J | ug/L | 17 |
| 004 | DUP-02 | Aqueous | Tetrachloroethene | 8260B | 120 | | ug/L | 17 |
| 004 | DUP-02 | Aqueous | Trichloroethene | 8260B | 240 | | ug/L | 17 |
| 004 | DUP-02 | Aqueous | Vinyl chloride | 8260B | 3.3 | J | ug/L | 17 |
| 004 | DUP-02 | Aqueous | 1,4-Dioxane | 8260B (SIM) | 11 | | ug/L | 17 |
| 004 | DUP-02 | Aqueous | Methane | RSK - 175 | 2200 | | ug/L | 18 |
| 005 | TB-02 | Aqueous | Acetone | 8260B | 5.9 | J | ug/L | 19 |
| 006 | MW-11 | Aqueous | Alkalinity | SM 2320B- | 59 | | mg/L | 21 |
| 006 | MW-11 | Aqueous | Chloride | 9056A | 2.8 | | mg/L | 21 |
| 006 | MW-11 | Aqueous | Sulfate | 9056A | 6.9 | | mg/L | 21 |
| 006 | MW-11 | Aqueous | TOC | 9060A | 3.8 | | mg/L | 21 |
| 006 | MW-11 | Aqueous | Acetone | 8260B | 6.5 | J | ug/L | 21 |

Detection Summary (Continued)

Lot Number: UC27071

| Sample | Sample ID | Matrix | Parameter | Method | Result | Q | Units | Page |
|--------|-----------|---------|-----------|-----------|--------|---|-------|------|
| 006 | MW-11 | Aqueous | Methane | RSK - 175 | 14 | | ug/L | 23 |

(46 detections)

Description: MW-4

Matrix: Aqueous

Date Sampled: 03/27/2019 1410

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1430 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1131 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1131 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1131 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1302 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 8.3 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 12 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.71 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1337 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 4.2 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.659 - 0.751

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-4

Matrix: Aqueous

Date Sampled: 03/27/2019 1410

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|--|--|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1337 | BWS | | 12007 | | | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | | | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 4.1 | | 1.0 | 0.40 | ug/L | 1 | | | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | | | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | | | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | | | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Tetrachloroethene | 127-18-4 | 8260B | 2.4 | | 1.0 | 0.40 | ug/L | 1 | | | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | 0.67 | J | 1.0 | 0.40 | ug/L | 1 | | | |
| Trichloroethene | 79-01-6 | 8260B | 4.6 | | 1.0 | 0.40 | ug/L | 1 | | | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | | | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 | | 93 | 70-130 | | | | | | | | |
| Bromofluorobenzene | | 98 | 70-130 | | | | | | | | |
| Toluene-d8 | | 94 | 70-130 | | | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1348 | JJG | | 11870 | | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1711 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 3.3 | J | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-4D

Matrix: Aqueous

Date Sampled: 03/27/2019 1450

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1445 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1157 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1157 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1157 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1336 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 1.8 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.065 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 2.9 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | ND | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0405 | KGT | | 11807 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 2.9 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 0.061 - 0.1

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/01/2019 0405 | KGT | | 11807 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 19 | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 0.53 | J | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 101 | 70-130 |
| Bromofluorobenzene | | 90 | 70-130 |
| Toluene-d8 | | 100 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1412 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 93 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1727 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-5

Matrix: Aqueous

Date Sampled: 03/27/2019 1600

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1447 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1223 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1223 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1223 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1409 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.61 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 3.3 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.52 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1729 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 4.6 | J | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 0.498 - 0.536

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: MW-5

Matrix: Aqueous

Date Sampled: 03/27/2019 1600

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1729 | BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 320 | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 2.9 | J | 5.0 | 2.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 130 | | 5.0 | 2.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 250 | | 5.0 | 2.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 3.5 | J | 5.0 | 2.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 93 | 70-130 | | | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | | | |
| Toluene-d8 | | 93 | 70-130 | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1437 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | 9.7 | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1743 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2200 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: DUP-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1450 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1249 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1249 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1249 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 03/30/2019 1443 | DMA | | 11671 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | ND | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 17 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | 0.60 | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 4.0 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 0.60 | J | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1752 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Acetone | 67-64-1 | 8260B | ND | | 100 | 10 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 50 | 10 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 5.0 | 2.5 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 10 | 3.0 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | 5.2 | | 5.0 | 2.0 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 |

TOC Range: 0.564 - 0.624

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 5 | 04/02/2019 1752 | BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | 310 | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | 2.8 | J | 5.0 | 2.0 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 50 | 10 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 25 | 2.0 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | 120 | | 5.0 | 2.0 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 5.0 | 2.1 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | 240 | | 5.0 | 2.0 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | 3.3 | J | 5.0 | 2.0 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 5.0 | 2.0 | ug/L | 1 | |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 | | | | | | |
| Bromofluorobenzene | | 98 | 70-130 | | | | | | |
| Toluene-d8 | | 95 | 70-130 | | | | | | |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1501 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | 11 | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|-------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1759 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 2200 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Description: TB-02

Matrix: Aqueous

Date Sampled: 03/27/2019

Date Received: 03/27/2019

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1205 | BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| Acetone | 67-64-1 | 8260B | 5.9 | J | 20 | 2.0 | ug/L | 1 | |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 | |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 | |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 | |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|-------------------|-----------------|---------|-----------|-------|-------|-----|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1205 | BWS | | 12007 | | |
| Parameter | | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 |
| 1,2,4-Trichlorobenzene | | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,1-Trichloroethane | | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,1,2-Trichloroethane | | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichloroethene | | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Trichlorofluoromethane | | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Vinyl chloride | | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Xylenes (total) | | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Surrogate | Q | Run 1 % Recovery | Acceptance Limits | | | | | | |
| 1,2-Dichloroethane-d4 | | 109 | 70-130 | | | | | | |
| Bromofluorobenzene | | 107 | 70-130 | | | | | | |
| Toluene-d8 | | 105 | 70-130 | | | | | | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-11

Matrix: Aqueous

Date Sampled: 03/27/2019 1220

Date Received: 03/27/2019

Inorganic non-metals

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-----------------------------|----------|-----------------|---------|-----------|-------|
| 1 | | (Alkalinity) SM 2320B-2011 | 1 | 03/30/2019 1456 | KFE | | 12031 |
| 1 | | (Chloride) 9056A | 1 | 03/28/2019 1407 | SLU | | 11591 |
| 1 | | (Nitrate - N) 9056A | 1 | 03/28/2019 1407 | SLU | | 11592 |
| 1 | | (Sulfate) 9056A | 1 | 03/28/2019 1407 | SLU | | 11593 |
| 1 | | (Sulfide) SM 4500-S2 F-2011 | 1 | 04/02/2019 1446 | HET | | 12039 |
| 1 | | (TOC) 9060A | 1 | 04/01/2019 2350 | DMA | | 11885 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-------------|------------|-------------------|--------|---|-------|--------|-------|-----|
| Alkalinity | | SM 2320B- | 59 | | 20 | 20 | mg/L | 1 |
| Chloride | | 9056A | 2.8 | | 1.0 | 0.20 | mg/L | 1 |
| Nitrate - N | | 9056A | ND | | 0.020 | 0.0050 | mg/L | 1 |
| Sulfate | | 9056A | 6.9 | | 1.0 | 0.20 | mg/L | 1 |
| Sulfide | 18496-25-8 | SM 4500-S2 F- | ND | | 1.0 | 1.0 | mg/L | 1 |
| TOC | | 9060A | 3.8 | | 1.0 | 0.42 | mg/L | 1 |

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1401 | BWS | | 12007 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|------------------------------------|------------|-------------------|--------|---|-----|------|-------|-----|
| Acetone | 67-64-1 | 8260B | 6.5 | J | 20 | 2.0 | ug/L | 1 |
| Benzene | 71-43-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromodichloromethane | 75-27-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromoform | 75-25-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Bromomethane (Methyl bromide) | 74-83-9 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| 2-Butanone (MEK) | 78-93-3 | 8260B | ND | | 10 | 2.0 | ug/L | 1 |
| Carbon disulfide | 75-15-0 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Carbon tetrachloride | 56-23-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chlorobenzene | 108-90-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloroethane | 75-00-3 | 8260B | ND | | 2.0 | 0.40 | ug/L | 1 |
| Chloroform | 67-66-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Chloromethane (Methyl chloride) | 74-87-3 | 8260B | ND | | 1.0 | 0.50 | ug/L | 1 |
| Cyclohexane | 110-82-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 96-12-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dibromochloromethane | 124-48-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dibromoethane (EDB) | 106-93-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichlorobenzene | 95-50-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,3-Dichlorobenzene | 541-73-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,4-Dichlorobenzene | 106-46-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| Dichlorodifluoromethane | 75-71-8 | 8260B | ND | | 2.0 | 0.60 | ug/L | 1 |
| 1,1-Dichloroethane | 75-34-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |
| 1,2-Dichloroethane | 107-06-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 |

TOC Range: 3.647 - 3.872

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL
 H = Out of holding time W = Reported on wet weight basis

Volatile Organic Compounds by GC/MS

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|---------------------------------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B | 1 | 04/02/2019 1401 | BWS | | 12007 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,1-Dichloroethene | 75-35-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,2-Dichloroethene | 156-59-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,2-Dichloroethene | 156-60-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,2-Dichloropropane | 78-87-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| cis-1,3-Dichloropropene | 10061-01-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| trans-1,3-Dichloropropene | 10061-02-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Ethylbenzene | 100-41-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 2-Hexanone | 591-78-6 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Isopropylbenzene | 98-82-8 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl acetate | 79-20-9 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Methyl tertiary butyl ether (MTBE) | 1634-04-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 4-Methyl-2-pentanone | 108-10-1 | 8260B | ND | | 10 | 2.0 | ug/L | 1 | |
| Methylcyclohexane | 108-87-2 | 8260B | ND | | 5.0 | 0.40 | ug/L | 1 | |
| Methylene chloride | 75-09-2 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Styrene | 100-42-5 | 8260B | ND | | 1.0 | 0.41 | ug/L | 1 | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Tetrachloroethene | 127-18-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Toluene | 108-88-3 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | 8260B | ND | | 1.0 | 0.42 | ug/L | 1 | |
| 1,2,4-Trichlorobenzene | 120-82-1 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,1-Trichloroethane | 71-55-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| 1,1,2-Trichloroethane | 79-00-5 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichloroethene | 79-01-6 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Trichlorofluoromethane | 75-69-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Vinyl chloride | 75-01-4 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |
| Xylenes (total) | 1330-20-7 | 8260B | ND | | 1.0 | 0.40 | ug/L | 1 | |

| Surrogate | Q | Run 1 % Recovery | Acceptance Limits |
|-----------------------|---|---------------------|----------------------|
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |
| Bromofluorobenzene | | 97 | 70-130 |
| Toluene-d8 | | 96 | 70-130 |

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch | | |
|-------------|-------------|-------------------|----------|-----------------|---------|-----------|-------|-----|--|
| 1 | 5030B | 8260B (SIM iso.) | 1 | 04/01/2019 1526 | JJG | | 11870 | | |
| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run | |
| 1,4-Dioxane | 123-91-1 | 8260B (SIM is | ND | | 3.0 | 1.0 | ug/L | 1 | |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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Description: MW-11

Matrix: Aqueous

Date Sampled: 03/27/2019 1220

Date Received: 03/27/2019

| Surrogate | Run 1 | | Acceptance Limits |
|-----------------------|-------|------------|----------------------|
| | Q | % Recovery | |
| 1,2-Dichloroethane-d4 | | 94 | 70-130 |

Dissolved Gases

| Run | Prep Method | Analytical Method | Dilution | Analysis Date | Analyst | Prep Date | Batch |
|-----|-------------|-------------------|----------|-----------------|---------|-----------|-------|
| 1 | | RSK - 175 | 1 | 04/04/2019 1815 | JJG | | 12263 |

| Parameter | CAS Number | Analytical Method | Result | Q | LOQ | DL | Units | Run |
|-----------|------------|-------------------|--------|---|-----|-----|-------|-----|
| Ethane | 74-84-0 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Ethene | 74-85-1 | RSK - 175 | ND | | 10 | 2.5 | ug/L | 1 |
| Methane | 74-82-8 | RSK - 175 | 14 | | 10 | 2.5 | ug/L | 1 |
| Propane | 74-98-6 | RSK - 175 | ND | | 15 | 5.0 | ug/L | 1 |

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

ND = Not detected at or above the DL

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and ≥ DL

H = Out of holding time

W = Reported on wet weight basis

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QC Summary

Inorganic non-metals - MB

Sample ID: UQ11591-001

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Chloride | ND | | 1 | 1.0 | 0.20 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11591-002

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 20 | 20 | | 1 | 101 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC27071-006MS

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Chloride | 2.8 | 20 | 22 | | 1 | 98 | 80-120 | 03/28/2019 1433 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC27071-006MD

Matrix: Aqueous

Batch: 11591

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Chloride | 2.8 | 20 | 23 | | 1 | 99 | 0.45 | 80-120 | 20 | 03/28/2019 1459 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11592-001

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-------------|--------|---|-----|-------|--------|-------|-----------------|
| Nitrate - N | ND | | 1 | 0.020 | 0.0050 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Inorganic non-metals - LCS

Sample ID: UQ11592-002

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | 0.80 | 0.79 | | 1 | 99 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC27071-006MS

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Nitrate - N | ND | 0.80 | 0.76 | | 1 | 95 | 80-120 | 03/28/2019 1433 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC27071-006MD

Matrix: Aqueous

Batch: 11592

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-------------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Nitrate - N | ND | 0.80 | 0.76 | | 1 | 95 | 0.00 | 80-120 | 20 | 03/28/2019 1459 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11593-001

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| Sulfate | ND | | 1 | 1.0 | 0.20 | mg/L | 03/28/2019 0829 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11593-002

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 20 | 20 | | 1 | 102 | 80-120 | 03/28/2019 0921 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: UC27071-006MS

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfate | 6.9 | 20 | 26 | | 1 | 97 | 80-120 | 03/28/2019 1433 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MSD

Sample ID: UC27071-006MD

Matrix: Aqueous

Batch: 11593

Analytical Method: 9056A

| Parameter | Sample Amount (mg/L) | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|----------------------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfate | 6.9 | 20 | 26 | | 1 | 96 | 0.38 | 80-120 | 20 | 03/28/2019 1459 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11671-001

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| TOC | ND | | 1 | 1.0 | 0.42 | mg/L | 03/29/2019 2240 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11671-002

Matrix: Aqueous

Batch: 11671

Analytical Method: 9060A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | 20 | 20 | | 1 | 99 | 90-110 | 03/29/2019 2312 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ11885-001

Matrix: Aqueous

Batch: 11885

Analytical Method: 9060A

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|------|-------|-----------------|
| TOC | ND | | 1 | 1.0 | 0.42 | mg/L | 04/01/2019 2246 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ11885-002

Matrix: Aqueous

Batch: 11885

Analytical Method: 9060A

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| TOC | 20 | 20 | | 1 | 99 | 90-110 | 04/01/2019 2318 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12031-001

Matrix: Aqueous

Batch: 12031

Analytical Method: SM 2320B-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------|--------|---|-----|-----|----|-------|-----------------|
| Alkalinity | ND | | 1 | 20 | 20 | mg/L | 03/30/2019 1331 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCS

Sample ID: UQ12031-002

Matrix: Aqueous

Batch: 12031

Analytical Method: SM 2320B-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Alkalinity | 100 | 110 | | 1 | 107 | 90-110 | 03/30/2019 1337 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MB

Sample ID: UQ12039-001

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Sulfide | ND | | 1 | 1.0 | 1.0 | mg/L | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Inorganic non-metals - LCS

Sample ID: UQ12039-002

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Sulfide | 10 | 9.3 | | 1 | 93 | 80-120 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - LCSD

Sample ID: UQ12039-003

Matrix: Aqueous

Batch: 12039

Analytical Method: SM 4500-S2 F-2011

| Parameter | Spike Amount (mg/L) | Result (mg/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Sulfide | 10 | 9.8 | | 1 | 98 | 5.2 | 80-120 | 20 | 04/02/2019 1446 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11807-001

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 03/31/2019 2156 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 03/31/2019 2156 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 03/31/2019 2156 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 03/31/2019 2156 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 03/31/2019 2156 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 03/31/2019 2156 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ11807-001

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 03/31/2019 2156 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 102 | 70-130 | | | | |
| Bromofluorobenzene | | 93 | 70-130 | | | | |
| Toluene-d8 | | 102 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11807-002

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 100 | | 1 | 104 | 60-140 | 03/31/2019 2112 |
| Benzene | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| Bromodichloromethane | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 2112 |
| Bromoform | 50 | 46 | | 1 | 93 | 70-130 | 03/31/2019 2112 |
| Bromomethane (Methyl bromide) | 50 | 57 | | 1 | 115 | 70-130 | 03/31/2019 2112 |
| 2-Butanone (MEK) | 100 | 110 | | 1 | 113 | 70-130 | 03/31/2019 2112 |
| Carbon disulfide | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 2112 |
| Carbon tetrachloride | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| Chlorobenzene | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| Chloroethane | 50 | 49 | | 1 | 99 | 70-130 | 03/31/2019 2112 |
| Chloroform | 50 | 56 | | 1 | 111 | 70-130 | 03/31/2019 2112 |
| Chloromethane (Methyl chloride) | 50 | 65 | | 1 | 130 | 60-140 | 03/31/2019 2112 |
| Cyclohexane | 50 | 64 | | 1 | 129 | 70-130 | 03/31/2019 2112 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 51 | | 1 | 101 | 70-130 | 03/31/2019 2112 |
| Dibromochloromethane | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,2-Dibromoethane (EDB) | 50 | 61 | | 1 | 122 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichlorobenzene | 50 | 52 | | 1 | 103 | 70-130 | 03/31/2019 2112 |
| 1,3-Dichlorobenzene | 50 | 53 | | 1 | 106 | 70-130 | 03/31/2019 2112 |
| 1,4-Dichlorobenzene | 50 | 53 | | 1 | 106 | 70-130 | 03/31/2019 2112 |
| Dichlorodifluoromethane | 50 | 77 | N | 1 | 153 | 60-140 | 03/31/2019 2112 |
| 1,1-Dichloroethane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichloroethane | 50 | 64 | | 1 | 128 | 70-130 | 03/31/2019 2112 |
| 1,1-Dichloroethene | 50 | 61 | | 1 | 121 | 70-130 | 03/31/2019 2112 |
| cis-1,2-Dichloroethene | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| trans-1,2-Dichloroethene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,2-Dichloropropane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| cis-1,3-Dichloropropene | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| trans-1,3-Dichloropropene | 50 | 60 | | 1 | 119 | 70-130 | 03/31/2019 2112 |
| Ethylbenzene | 50 | 56 | | 1 | 112 | 70-130 | 03/31/2019 2112 |
| 2-Hexanone | 100 | 110 | | 1 | 107 | 70-130 | 03/31/2019 2112 |
| Isopropylbenzene | 50 | 54 | | 1 | 107 | 70-130 | 03/31/2019 2112 |
| Methyl acetate | 50 | 63 | | 1 | 126 | 70-130 | 03/31/2019 2112 |
| Methyl tertiary butyl ether (MTBE) | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| 4-Methyl-2-pentanone | 100 | 110 | | 1 | 108 | 70-130 | 03/31/2019 2112 |
| Methylcyclohexane | 50 | 63 | | 1 | 126 | 70-130 | 03/31/2019 2112 |
| Methylene chloride | 50 | 57 | | 1 | 113 | 70-130 | 03/31/2019 2112 |
| Styrene | 50 | 55 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| 1,1,2,2-Tetrachloroethane | 50 | 58 | | 1 | 116 | 70-130 | 03/31/2019 2112 |
| Tetrachloroethene | 50 | 53 | | 1 | 105 | 70-130 | 03/31/2019 2112 |
| Toluene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 61 | | 1 | 123 | 70-130 | 03/31/2019 2112 |
| 1,2,4-Trichlorobenzene | 50 | 42 | | 1 | 83 | 70-130 | 03/31/2019 2112 |
| 1,1,1-Trichloroethane | 50 | 59 | | 1 | 119 | 70-130 | 03/31/2019 2112 |
| 1,1,2-Trichloroethane | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ11807-002

Matrix: Aqueous

Batch: 11807

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------------|------------------|---|-----|---------------------|----------------|-----------------|
| Trichloroethene | 50 | 59 | | 1 | 118 | 70-130 | 03/31/2019 2112 |
| Trichlorofluoromethane | 50 | 60 | | 1 | 120 | 70-130 | 03/31/2019 2112 |
| Vinyl chloride | 50 | 53 | | 1 | 105 | 70-130 | 03/31/2019 2112 |
| Xylenes (total) | 100 | 110 | | 1 | 110 | 70-130 | 03/31/2019 2112 |
| Surrogate | Q | % Rec | | | Acceptance Limit | | |
| 1,2-Dichloroethane-d4 | | 103 | | | 70-130 | | |
| Bromofluorobenzene | | 98 | | | 70-130 | | |
| Toluene-d8 | | 104 | | | 70-130 | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: UQ11870-001

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------------------|--------|-------|------------------|-----|-----|-------|-----------------|
| 1,4-Dioxane | ND | | 1 | 3.0 | 1.0 | ug/L | 04/01/2019 1140 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 95 | 70-130 | | | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: UQ11870-002

Matrix: Aqueous

Batch: 11870

Prep Method: 5030B

Analytical Method: 8260B (SIM iso.)

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------------------|---------------------|---------------|---|-----|-------|------------------|-----------------|
| 1,4-Dioxane | 50 | 59 | | 1 | 117 | 70-130 | 04/01/2019 1051 |
| Surrogate | Q | % Rec | | | | Acceptance Limit | |
| 1,2-Dichloroethane-d4 | | 95 | | | | 70-130 | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ12007-001

Matrix: Aqueous

Batch: 12007

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|---------------------------------------|--------|---|-----|-----|------|-------|-----------------|
| Acetone | ND | | 1 | 20 | 2.0 | ug/L | 04/02/2019 1123 |
| Benzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Bromodichloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Bromoform | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Bromomethane (Methyl bromide) | ND | | 1 | 2.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 2-Butanone (MEK) | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 1123 |
| Carbon disulfide | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Carbon tetrachloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Chlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Chloroethane | ND | | 1 | 2.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Chloroform | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Chloromethane (Methyl chloride) | ND | | 1 | 1.0 | 0.50 | ug/L | 04/02/2019 1123 |
| Cyclohexane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Dibromochloromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,2-Dibromoethane (EDB) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,2-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,3-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,4-Dichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Dichlorodifluoromethane | ND | | 1 | 2.0 | 0.60 | ug/L | 04/02/2019 1123 |
| 1,1-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,2-Dichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,1-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| cis-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| trans-1,2-Dichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,2-Dichloropropane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| cis-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| trans-1,3-Dichloropropene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Ethylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 2-Hexanone | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 1123 |
| Isopropylbenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Methyl acetate | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Methyl tertiary butyl ether (MTBE) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 4-Methyl-2-pentanone | ND | | 1 | 10 | 2.0 | ug/L | 04/02/2019 1123 |
| Methylcyclohexane | ND | | 1 | 5.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Methylene chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Styrene | ND | | 1 | 1.0 | 0.41 | ug/L | 04/02/2019 1123 |
| 1,1,2,2-Tetrachloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Tetrachloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Toluene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | ND | | 1 | 1.0 | 0.42 | ug/L | 04/02/2019 1123 |
| 1,2,4-Trichlorobenzene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,1,1-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| 1,1,2-Trichloroethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |

LOQ = Limit of Quantitation

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - MB

Sample ID: UQ12007-001

Matrix: Aqueous

Batch: 12007

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|------------------------|--------|-------|------------------|-----|------|-------|-----------------|
| Trichloroethene | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Trichlorofluoromethane | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Vinyl chloride | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Xylenes (total) | ND | | 1 | 1.0 | 0.40 | ug/L | 04/02/2019 1123 |
| Surrogate | Q | % Rec | Acceptance Limit | | | | |
| 1,2-Dichloroethane-d4 | | 96 | 70-130 | | | | |
| Bromofluorobenzene | | 100 | 70-130 | | | | |
| Toluene-d8 | | 96 | 70-130 | | | | |

LOQ = Limit of Quantitation

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Shealy Environmental Services, Inc.

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ12007-002

Matrix: Aqueous

Batch: 12007

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|---------------------------------------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Acetone | 100 | 190 | N | 1 | 192 | 60-140 | 04/02/2019 1011 |
| Benzene | 50 | 49 | | 1 | 97 | 70-130 | 04/02/2019 1011 |
| Bromodichloromethane | 50 | 47 | | 1 | 94 | 70-130 | 04/02/2019 1011 |
| Bromoform | 50 | 43 | | 1 | 87 | 70-130 | 04/02/2019 1011 |
| Bromomethane (Methyl bromide) | 50 | 54 | | 1 | 107 | 70-130 | 04/02/2019 1011 |
| 2-Butanone (MEK) | 100 | 130 | | 1 | 126 | 70-130 | 04/02/2019 1011 |
| Carbon disulfide | 50 | 53 | | 1 | 106 | 70-130 | 04/02/2019 1011 |
| Carbon tetrachloride | 50 | 49 | | 1 | 99 | 70-130 | 04/02/2019 1011 |
| Chlorobenzene | 50 | 44 | | 1 | 88 | 70-130 | 04/02/2019 1011 |
| Chloroethane | 50 | 43 | | 1 | 85 | 70-130 | 04/02/2019 1011 |
| Chloroform | 50 | 48 | | 1 | 96 | 70-130 | 04/02/2019 1011 |
| Chloromethane (Methyl chloride) | 50 | 52 | | 1 | 104 | 60-140 | 04/02/2019 1011 |
| Cyclohexane | 50 | 57 | | 1 | 113 | 70-130 | 04/02/2019 1011 |
| 1,2-Dibromo-3-chloropropane (DBCP) | 50 | 48 | | 1 | 96 | 70-130 | 04/02/2019 1011 |
| Dibromochloromethane | 50 | 45 | | 1 | 91 | 70-130 | 04/02/2019 1011 |
| 1,2-Dibromoethane (EDB) | 50 | 48 | | 1 | 97 | 70-130 | 04/02/2019 1011 |
| 1,2-Dichlorobenzene | 50 | 43 | | 1 | 86 | 70-130 | 04/02/2019 1011 |
| 1,3-Dichlorobenzene | 50 | 41 | | 1 | 83 | 70-130 | 04/02/2019 1011 |
| 1,4-Dichlorobenzene | 50 | 41 | | 1 | 83 | 70-130 | 04/02/2019 1011 |
| Dichlorodifluoromethane | 50 | 63 | | 1 | 126 | 60-140 | 04/02/2019 1011 |
| 1,1-Dichloroethane | 50 | 51 | | 1 | 102 | 70-130 | 04/02/2019 1011 |
| 1,2-Dichloroethane | 50 | 56 | | 1 | 112 | 70-130 | 04/02/2019 1011 |
| 1,1-Dichloroethene | 50 | 54 | | 1 | 107 | 70-130 | 04/02/2019 1011 |
| cis-1,2-Dichloroethene | 50 | 51 | | 1 | 102 | 70-130 | 04/02/2019 1011 |
| trans-1,2-Dichloroethene | 50 | 51 | | 1 | 102 | 70-130 | 04/02/2019 1011 |
| 1,2-Dichloropropane | 50 | 46 | | 1 | 92 | 70-130 | 04/02/2019 1011 |
| cis-1,3-Dichloropropene | 50 | 48 | | 1 | 96 | 70-130 | 04/02/2019 1011 |
| trans-1,3-Dichloropropene | 50 | 47 | | 1 | 94 | 70-130 | 04/02/2019 1011 |
| Ethylbenzene | 50 | 44 | | 1 | 89 | 70-130 | 04/02/2019 1011 |
| 2-Hexanone | 100 | 86 | | 1 | 86 | 70-130 | 04/02/2019 1011 |
| Isopropylbenzene | 50 | 45 | | 1 | 90 | 70-130 | 04/02/2019 1011 |
| Methyl acetate | 50 | 57 | | 1 | 113 | 70-130 | 04/02/2019 1011 |
| Methyl tertiary butyl ether (MTBE) | 50 | 52 | | 1 | 104 | 70-130 | 04/02/2019 1011 |
| 4-Methyl-2-pentanone | 100 | 89 | | 1 | 89 | 70-130 | 04/02/2019 1011 |
| Methylcyclohexane | 50 | 53 | | 1 | 107 | 70-130 | 04/02/2019 1011 |
| Methylene chloride | 50 | 51 | | 1 | 101 | 70-130 | 04/02/2019 1011 |
| Styrene | 50 | 44 | | 1 | 88 | 70-130 | 04/02/2019 1011 |
| 1,1,2,2-Tetrachloroethane | 50 | 45 | | 1 | 90 | 70-130 | 04/02/2019 1011 |
| Tetrachloroethene | 50 | 47 | | 1 | 94 | 70-130 | 04/02/2019 1011 |
| Toluene | 50 | 46 | | 1 | 92 | 70-130 | 04/02/2019 1011 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 50 | 56 | | 1 | 112 | 70-130 | 04/02/2019 1011 |
| 1,2,4-Trichlorobenzene | 50 | 41 | | 1 | 82 | 70-130 | 04/02/2019 1011 |
| 1,1,1-Trichloroethane | 50 | 50 | | 1 | 100 | 70-130 | 04/02/2019 1011 |
| 1,1,2-Trichloroethane | 50 | 45 | | 1 | 90 | 70-130 | 04/02/2019 1011 |

LOQ = Limit of Quantitation

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ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: UQ12007-002

Matrix: Aqueous

Batch: 12007

Prep Method: 5030B

Analytical Method: 8260B

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|------------------------|---------------------|---------------|---|-----|------------------|-------------|-----------------|
| Trichloroethene | 50 | 51 | | 1 | 101 | 70-130 | 04/02/2019 1011 |
| Trichlorofluoromethane | 50 | 51 | | 1 | 102 | 70-130 | 04/02/2019 1011 |
| Vinyl chloride | 50 | 50 | | 1 | 99 | 70-130 | 04/02/2019 1011 |
| Xylenes (total) | 100 | 90 | | 1 | 90 | 70-130 | 04/02/2019 1011 |
| Surrogate | Q | % Rec | | | Acceptance Limit | | |
| 1,2-Dichloroethane-d4 | | 97 | | | 70-130 | | |
| Bromofluorobenzene | | 97 | | | 70-130 | | |
| Toluene-d8 | | 94 | | | 70-130 | | |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Dissolved Gases - MB

Sample ID: UQ12263-001

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Result | Q | Dil | LOQ | DL | Units | Analysis Date |
|-----------|--------|---|-----|-----|-----|-------|-----------------|
| Ethane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Ethene | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Methane | ND | | 1 | 10 | 2.5 | ug/L | 04/04/2019 1450 |
| Propane | ND | | 1 | 15 | 5.0 | ug/L | 04/04/2019 1450 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCS

Sample ID: UQ12263-002

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % Rec Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 70-130 | 04/04/2019 1313 |
| Ethene | 520 | 550 | | 1 | 107 | 70-130 | 04/04/2019 1313 |
| Methane | 300 | 330 | | 1 | 111 | 70-130 | 04/04/2019 1313 |
| Propane | 810 | 900 | | 1 | 110 | 70-130 | 04/04/2019 1313 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Dissolved Gases - LCSD

Sample ID: UQ12263-003

Matrix: Aqueous

Batch: 12263

Analytical Method: RSK - 175

| Parameter | Spike Amount (ug/L) | Result (ug/L) | Q | Dil | % Rec | % RPD | % Rec Limit | % RPD Limit | Analysis Date |
|-----------|---------------------|---------------|---|-----|-------|-------|-------------|-------------|-----------------|
| Ethane | 550 | 620 | | 1 | 112 | 0.77 | 70-130 | 30 | 04/04/2019 1326 |
| Ethene | 520 | 560 | | 1 | 108 | 0.97 | 70-130 | 30 | 04/04/2019 1326 |
| Methane | 300 | 330 | | 1 | 111 | 0.28 | 70-130 | 30 | 04/04/2019 1326 |
| Propane | 810 | 900 | | 1 | 111 | 0.93 | 70-130 | 30 | 04/04/2019 1326 |

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

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Chain of Custody
and
Miscellaneous Documents

Number 95077

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-8700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

| | | | |
|---|---|--|--|
| Client EARTHCON 1580 West Oak Pkwy City Marietta GA 30067 | Report to Contact Carol Northern Sampler's Signature Anthony Masc Printed Name Anthony Masc | Telephone No. / E-mail 770-978-2106 cnorthern@earthcon.com | Quote No. Page 1 of 1 |
| Project No. 02-2011-0378.00 | P.O. No. 02-2011-0378.00 | Analyte (Attach list if more space is needed) VOC 1,4 Dioxane DIB. Gases TDC NOS/SOLIC/AE Sulfate | Barcode UC27071 L.O. Remarks / Cooler I.D. |
| Project Name LENNOX | Station BIA 30067 | Sampler's Signature Anthony Masc | |
| Project ID / Description (Circulars for each sample may be combined on one line.) | Date | Time | No. of Containers by Preservative Type |
| HW-4 | 3/27/19 | 14:10 | PH 11 NON 11 DI 11 |
| MW-4D | ↙ | 14:50 | PH 11 NON 11 DI 11 |
| MW-5 | | 16:00 | PH 11 NON 11 DI 11 |
| DUP-02 | | | PH 11 NON 2 DI 11 |
| TB-02 | 3/27/19 | | PH 11 NON 11 DI 11 |
| MW-11 | 3/27/19 | 12:20 | PH 11 NON 11 DI 11 |

| | |
|---|---------------------------------|
| Matrix ACROSS IN RECEIVED DATE | Analysis DATE TIME |
| | 3/27/19 17:30 |

Turn Around Time Required (Prior lab approval required for expedited TAT)
 Standard Rush (Specify)
 Requisitioned by: [Signature]
 Requisitioned by:

Sample Disposal
 Return to Client Disposed by Lab
 Date: 3/27/19 Time: 17:30

| | | |
|----------------------------------|--|--|
| OC Requirements (Specify) | Possible Hazard Identification | OC Requirements (Specify) |
| | <input checked="" type="checkbox"/> Toxic <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown 1. Received by 2. Received by 3. Received by 4. Laboratory received by: EEB | Date: 3-27-19 Time: 1730 Date: Date: Date: 3-27-19 Time: 1730 |

LAB USE ONLY
 Received on ice (Circled) Yes No
 Receptor Temp: 3.9 °C

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Clean Copy

Document Number: F-AD-133 Effective Date: 05-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: ME0018C-14

Page 1 of 1
Effective Date: 8/2/2018

Sample Receipt Checklist (SRC)

Client: **EARTHCON**

Cooler Inspected by/date: **LKH / 03-27-2019**

Lot #: **UC27071**

| | |
|---|---|
| Means of receipt: <input type="checkbox"/> SFESI <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 1. Were custody seals present on the cooler? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 2. If custody seals were present, were they intact and unbroken? |
| pH Strip ID: 18-2225 Chlorine Strip ID: 19-152 Tested by: LKH | |
| Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA | |
| 1.3 / 1.3 °C NA / NA °C NA / NA °C NA / NA °C | |
| Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C | |
| Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None | |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 4. Is the commercial courier's packing slip attached to this form? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. Were proper custody procedures (relinquished/received) followed? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 6. Were sample IDs listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 7. Were sample IDs listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. Was collection date & time listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 9. Was collection date & time listed on all sample containers? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 10. Did all container label information (ID, date, time) agree with the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 11. Were tests to be performed listed on the COC? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 13. Was adequate sample volume available? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 15. Were any samples containers missing/excess (circle one) samples Not listed on COC? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA | 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 17. Were all DRO/metals/nutrient samples received at a pH of < 2? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | 19. Were all applicable NH ₃ /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine? |
| <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA | 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS? |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 21. Was the quote number listed on the container label? If yes, Quote # |

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) **NA** were received incorrectly preserved and were adjusted accordingly in sample receiving with **NA** mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # **NA**.
Time of preservation **NA**. If more than one preservative is needed, please note in the comments below.

Sample(s) **NA** were received with bubbles >6 mm in diameter.

Samples(s) **NA** were received with TRC > 0.5 mg/L (If #19 is **no**) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na₂S₂O₃) with Shealy ID: **NA**.

SR barcode labels applied by: **LKH** Date: **03-27-2019**

Comments:

Appendix E

Groundwater Historical Data Summary

APPENDIX E: GROUNDWATER HISTORICAL DATA SUMMARY

| Well | Sample Date | Acetone | Benzene | 2-Butanone (MEK) | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Isopropylbenzene | MTBE | 4-Methyl-2-pentanone | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Vinyl Chloride | Xylenes | 1,1,1,2-Tetrachloroethane | n-Butylbenzene | sec-Butylbenzene | p-Isopropyltoluene | n-Propylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Naphthalene | 1,4-Dioxane | | | | | | | | | |
|------|-------------|---------|---------|------------------|------------------|----------------------|---------------|--------------|------------|---------------|----------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|--------------|------------------|------|----------------------|--------------------|---------|-------------------|---------|-----------------------|-----------------------|-----------------|----------------|---------|---------------------------|----------------|------------------|--------------------|-----------------|------------------------|------------------------|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|----|----|
| MW-1 | 09/01/99 | <10 | <2 | <10 | 10.6 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | 3.1 | 22.5 | 12,000 | 40.6 | 1,380 | 14.1 | -- | 17.3 | <10 | -- | 78.5 | 685 | <2 | <2 | 60.2 | 49.1 | 5,820 | <2 | <2 | <2 | <2 | 21.7 | 178 | 31.2 | 11.9 | -- | -- | | | | | | | | |
| | 09/24/99 | ND | 2.2 | ND | 9.2 | ND | ND | ND | ND | ND | ND | ND | 4.2 | 25.7 | 18,000 | 60.1 | 1,950 | 18 | ND | 23.8 | ND | -- | 15.8 | 1,050 | ND | ND | 24.6 | 43.1 | 8,260 | ND | ND | 3.8 | ND | 38.3 | 215 | 54.9 | 22.6 | -- | -- | | | | | | | | |
| | 05/16/00 | ND | 15.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 68.4 | 17,600 | 381 | 1,890 | ND | 27.1 | ND | ND | -- | ND | 979 | ND | ND | 29.4 | ND | 7,820 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | | |
| | 04/10/01 | ND | 1.28 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.31 | 27.4 | 10,600 | 46.4 | 1,050 | 13.3 | ND | ND | ND | -- | 16.4 | 436 | ND | ND | 24.1 | 105 | 4,260 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 06/27/01 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.2 | ND | 10.1 | 3,310 | 78 | 412 | 3.6 | ND | ND | ND | -- | 2.6 | 372 | ND | ND | 19.7 | 45 | 3,360 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| | 08/09/01 | ND | 1.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 | ND | 8,580 | 54 | 854 | 10.8 | ND | ND | ND | -- | 5.6 | 396 | ND | ND | 8.9 | 76 | 2,720 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| | 03/18/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4.5 | 12.4 | 6,900 | 22 | 635 | 5.4 | ND | ND | ND | -- | 4.6 | 317 | ND | ND | 8.0 | ND | 2,680 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 06/27/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 11.5 | 5,090 | 24 | ND | 6.0 | ND | ND | ND | ND | -- | 4.5 | ND | ND | ND | 4.6 | 29 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | |
| | 07/15/02 | ND | 1.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 | 13.1 | 6,550 | 63 | 813 | 8.6 | ND | ND | ND | -- | 4.8 | 344 | ND | ND | 7.3 | 65 | 3,349 | ND | ND | 1.6 | ND | 14.8 | 87.8 | 18.9 | 9.4 | -- | -- | -- | -- | -- | -- | -- | | |
| | 10/16/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.0 | 647 | 10 | 1,900 | 13.8 | ND | ND | ND | -- | 11.8 | 89 | ND | ND | 11.8 | 14.1 | 7 | 9,870 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 11/01/02 | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.6 | 2,010 | 12 | 1,380 | 7.6 | ND | ND | ND | -- | 17.5 | 106 | ND | ND | 13.4 | 15 | 7,230 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 12/12/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 19.1 | 3,630 | 80 | 613 | 3.4 | ND | ND | ND | -- | 4.1 | 201 | ND | ND | 5.4 | 18 | 2,454 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 03/11/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.5 | ND | 20.1 | 8,820 | 48 | 875 | 8.3 | ND | ND | -- | 4.4 | 265 | ND | ND | 5.0 | 99 | 3,130 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/17/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.0 | 16.3 | 6,810 | 47 | 938 | 8.3 | ND | ND | ND | -- | 2.2 | 239 | ND | ND | 3.6 | 110 | 4,040 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 08/14/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.3 | ND | 1.3 | 6,130 | 14.5 | 441 | ND | ND | ND | -- | ND | 19 | ND | ND | 5.77 | 2,193 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 02/13/04 | ND | 1.21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 153 | 1.93 | 21.3 | 10,200 | 153 | 1040 | 13.0 | ND | ND | -- | 5.96 | 355 | ND | ND | 4.23 | 92.8 | 4,970 | ND | 1.98 | 1.78 | 3.30 | 1.96 | 1.36 | 29.6 | 11.9 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 06/02/04 | ND | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.20 | 25.1 | 12,300 | 127 | 1,910 | 15.0 | ND | ND | ND | -- | 1.10 | 766 | ND | ND | 1.80 | 120 | 9,220 | ND | 3.20 | ND | 1.10 | 24.8 | 176 | 34.6 | 13.9 | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 10/07/04 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 17.5 | 5,200 | 49.3 | 680 | 8.0 | ND | ND | ND | -- | ND | 422 | ND | ND | 1.50 | 76.8 | 3,220 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/18/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 16.0 | 2,580 | 50.5 | 764 | 8.10 | ND | ND | ND | -- | 18.1 | 238 | ND | ND | 9.10 | 85.6 | 3,530 | ND | 2.30 | 1.20 | ND | 13.8 | 92.2 | 19.8 | 9.00 | -- | -- | -- | -- | -- | -- | -- | -- | | |
| | 06/02/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.0 | 8,200 | 57.5 | 820 | ND | ND | ND | -- | <5 | 264 | ND | ND | <5 | 75 | 3,940 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 09/28/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 17.8 | 12,400 | 133 | 1,380 | ND | ND | ND | -- | ND | 524 | ND | ND | ND | 112 | 6,580 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 12/20/05 | ND | 0.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 15.6 | 11,900 | 28 | 1,300 | ND | ND | ND | -- | 0.94 | 394 | ND | ND | 2.37 | 97.5 | 5,830 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/26/06 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5,280 | ND | 520 | ND | ND | ND | -- | ND | 110 | ND | ND | ND | ND | 75 | 2,430 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 09/27/06 | <2 | <1 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | 17.8 | 7,530 | 31.8 | 922 | 9.29 | <1 | <1 | <1 | -- | <1 | 209 | <1 | <1 | 1.49 | 104 | 3,910 | <1 | <1 | 1.90 | 2.54 | 13.9 | 91.6 | 19.4 | 6.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| | 03/29/07 | 14.3 | <10 | <20 | <10 | <10 | <10 | <10 | <20 | <10 | <10 | <10 | <10 | 7.4 | <10 | 13.5 | 3,120 | 14.1 | 159 | <10 | <10 | <10 | -- | 8.6 | 25.7 | <10 | <10 | 13.9 | 58.9 | 736 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | |
| | 09/07/07 | <100 | <5 | <50 | <5 | <5 | <5 | <5 | <10 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 700 | <5 | <5 | <5 | -- | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | | | |
| | 03/10/08 | <400 | <20 | <200 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 4,800 | 22 | 460 | <20 | <20 | <20 | -- | <20 | 64 | <20 | <20 | <20 | <20 | 86 | 1,900 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | | |
| | 09/22/08 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2,200 | ND | 94 | ND | ND | -- | ND | 28 | ND | ND | ND | ND | 32 | 460 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 04/20/09 | <200 | <10 | 120 | <10 | <10 | <10 | <10 | <20 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 2,800 | 15 | 270 | <10 | <10 | <10 | -- | <10 | 18 | <10 | <10 | <10 | <10 | 98 | 1,000 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | | |
| | 06/30/09 | <40 | <2 | <20 | <2 | <2 | <2 | <2 | <4 | <2 | <2 | <2 | <2 | 5.3 | 2,200 | 12 | 220 | <2 | <2 | <2 | <2 | -- | <2 | 11 | <2 | <2 | <2 | 84 | 900 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | | | |
| | 09/09/09 | <400 | <20 | <200 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 6,500 | 28 | 550 | <20 | <20 | <20 | -- | <20 | 69 | <20 | <20 | 150 | 2,300 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | | | | |
| | 03/02/10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5,300 | 21 | 450 | ND | ND</ | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX E: GROUNDWATER HISTORICAL DATA SUMMARY

| Well | Sample Date | Acetone | Benzene | 2-Butanone (MEK) | Carbon disulfide | Carbon Tetrachloride | Chlorobenzene | Chloroethane | Chloroform | Chloromethane | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Ethylbenzene | Isopropylbenzene | MTBE | 4-Methyl-2-pentanone | Methylene Chloride | Styrene | Tetrachloroethene | Toluene | 1,1,1-Trichloroethane | 1,1,2-Trichloroethane | Trichloroethene | Vinyl Chloride | Xylenes | 1,1,1,2-Tetrachloroethane | n-Butylbenzene | sec-Butylbenzene | p-Isopropyltoluene | n-Propylbenzene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Naphthalene | 1,4-Dioxane | | | | | | | | | | | | |
|------|-------------|---------|---------|------------------|------------------|----------------------|---------------|--------------|------------|---------------|----------------------|--------------------|--------------------|--------------------|------------------------|--------------------------|--------------|------------------|------|----------------------|--------------------|---------|-------------------|---------|-----------------------|-----------------------|-----------------|----------------|---------|---------------------------|----------------|------------------|--------------------|-----------------|------------------------|------------------------|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|----|
| MW-5 | 05/16/00 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.87 | ND | 2.87 | ND | 6.03 | ND | ND | ND | ND | ND | ND | 2,230 | ND | ND | ND | 1,970 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | | |
| | 07/10/01 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4.77 | ND | 3.5 | 636 | 7.63 | ND | ND | ND | ND | ND | ND | ND | 872 | ND | ND | 2.53 | 1,190 | 9.09 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | |
| | 02/21/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 | ND | 4.4 | 1140 | 10.7 | ND | ND | ND | ND | ND | ND | ND | 1,920 | ND | ND | ND | 2,710 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 9.5 | ND | | | |
| | 03/18/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 | ND | 4.4 | 1160 | 13.2 | ND | ND | ND | ND | ND | ND | ND | 2,470 | ND | ND | 1.2 | 3,380 | 8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 12.3 | ND | | |
| | 04/19/02 | ND | 15.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.2 | 5 | 953 | 11.1 | ND | ND | 12.3 | ND | ND | ND | ND | 1,240 | ND | ND | ND | 2,280 | 4.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7.4 | ND | | |
| | 06/27/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.88 | 1,280 | 21.9 | 25.1 | ND | ND | ND | ND | ND | ND | 1,700 | 1.56 | ND | ND | 2,560 | 4.41 | 144.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.03 | ND | | |
| | 07/15/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.46 | 1,290 | 21.4 | 1.63 | ND | ND | ND | ND | ND | ND | 1,350 | ND | ND | ND | 2,360 | 4.37 | 3.33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.11 | ND | | |
| | 12/16/02 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.62 | ND | 5.53 | 1,080 | 20.8 | ND | ND | ND | ND | ND | ND | 1,850 | ND | ND | ND | 1,780 | 7.48 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 03/11/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| | 06/17/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 978 | 23.7 | ND | ND | ND | ND | ND | ND | ND | 1,120 | ND | ND | ND | 1,560 | 1.22 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 08/14/03 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.64 | 1,110 | 15.8 | ND | ND | ND | ND | ND | ND | ND | 1,570 | ND | ND | 1.55 | 1,630 | 2.55 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 02/13/04 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.25 | ND | 288 | 1.70 | ND | ND | ND | ND | ND | ND | ND | 1,330 | ND | ND | ND | 604 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 06/02/04 | 123 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.60 | ND | ND | 4.40 | 1,120 | 14.0 | ND | ND | ND | ND | ND | ND | 1,160 | ND | ND | ND | 1,640 | 7.90 | 3.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 08/18/04 | 354 | ND | ND | 36.8 | ND | ND | ND | ND | ND | ND | 4.40 | ND | 5.10 | 1,510 | 21.4 | ND | ND | ND | ND | ND | ND | ND | 2,710 | ND | ND | ND | 2,210 | 7.20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 18.2 | ND |
| | 10/07/04 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 4.6 | 2,000 | 18.6 | ND | ND | ND | ND | ND | ND | ND | 1,820 | ND | ND | ND | 2,540 | 7.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 20.5 | ND |
| | 02/18/05 | 261 | ND | ND | 119 | ND | ND | ND | ND | ND | ND | ND | 6.00 | 1,040 | 26.3 | ND | ND | ND | ND | ND | ND | ND | ND | 630 | ND | ND | ND | 855 | 5.60 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 9.3 | ND | |
| | 06/02/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.00 | 1,860 | 20.9 | 1.5 | ND | ND | ND | ND | ND | ND | ND | 800 | ND | ND | ND | 1,870 | 7.00 | 6.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 18.8 | ND |
| | 09/28/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 6.79 | 3,010 | 26.2 | 2.53 | ND | ND | ND | ND | ND | ND | 253 | ND | ND | ND | 1,530 | 6.99 | 11.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 24.2 | ND |
| | 12/20/05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 7.91 | 2,860 | 19.7 | 2.97 | ND | ND | ND | ND | ND | ND | 184 | 0.25 | ND | ND | 764 | 5.08 | 12.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 28.6 | ND | |
| | 06/28/06 | 607 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2,850 | 17.1 | ND | ND | ND | ND | ND | ND | ND | 336 | ND | ND | ND | 778 | 7.25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/27/06 | 241 | <1 | 5.20 | <1 | <1 | <1 | <1 | 2.34 | <1 | 4.16 | <1 | 8.24 | 2,620 | 20.0 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 275 | <1 | <1 | <1 | 722 | 9.34 | 1.45 | <1 | <1 | 1.11 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 31.7 | ND | | |
| | 03/30/07 | 509 | <10 | <20 | <10 | <10 | <10 | <20 | <10 | <10 | <10 | <10 | 4.40 | <10 | 3,060 | 19.9 | <10 | <10 | <10 | <10 | <10 | <10 | 326 | <10 | <10 | <10 | 690 | 11.6 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 19.0 | ND | |
| | 09/07/07 | <400 | <20 | <200 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 3,500 | 24 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | | | |
| | 03/11/08 | <200 | <10 | <100 | <10 | <10 | <10 | <20 | <10 | <10 | <10 | <10 | <10 | <10 | 2,200 | 16 | <10 | <10 | <10 | <10 | <10 | <10 | 290 | <10 | <10 | <10 | 560 | 43 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | |
| | 09/23/08 | 360 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2,800 | 18.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 160 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 04/20/09 | <200 | <10 | <100 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 2,400 | 15 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | |
| | 09/09/09 | <200 | <10 | <100 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | 2,000 | 14 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | | |
| | 03/02/10 | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | 6.3 | ND | 5.9 | 2,100 | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 9.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 29 | ND |
| | 10/07/10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1,600 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 81 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 09/27/12 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | <25 | 750 | <25 | <25 | <25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX E: GROUNDWATER HISTORICAL DATA SUMMARY

Table with columns: Well, Sample Date, Acetone, Benzene, 2-Butanone (MEK), Carbon disulfide, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, Dibromochloromethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, Ethylbenzene, Isopropylbenzene, MTBE, 4-Methyl-2-pentanone, Methylene Chloride, Styrene, Tetrachloroethene, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethene, Vinyl Chloride, Xylenes, 1,1,1,2-Tetrachloroethane, n-Butylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Propylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Naphthalene, 1,4-Dioxane. Rows include 'WATER SUPPLY WELLS' and 'WS-1' with multiple sample dates and values such as ND, <1, <2, <10, 1.26, 1.23, 1.55, 0.92, 0.38, 2.98, 1.62, 0.97, 1.03, 1.19, 3.55, 37.4, 11.9, 2.5.

Notes:
Concentrations reported in micrograms per liter
< - concentration less than the stated reporting limit (RL), practical quantitation limit (PQL) or Limit of Quantitation (LOQ); detection limit for 1,4-dioxane is the detection limit (DL)
ND - not detected above the RL, PQL or LOQ (limits not provided)
J - estimated concentration
-- constituent not analyzed

Prepared by: JLF 4/12/19
Checked by: CDN 4/15/19

Appendix F

Ricker Method® Plume Stability Analysis Input Data and Metrics Summary

Ricker Method® Plume Stability Analysis Input Data

Ricker Method® Input Data: PCE Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|
| MW-1 | 79 | <2.0 | 16 | 5.6 | 4.6 | 18 | 4.4 | <2.0 |
| MW-2 | 6.9 | 8.0 | NS (7.4) | 7.1 | 7.2 | 8.8 | 4.0 | 3.6 |
| MW-3 | 4,700 | <2.0 | NS (198) | 297 | 125 | 147 | 709 | 41 |
| MW-4 | 2.4 | <2.0 | NS (2.6) | NS (2.8) | 3.1 | 1.2 | <2.0 | <2.0 |
| MW-5 | NA | 2,230 | NS (1,327) | 872 | 2,470 | 1,850 | 1,120 | 1,570 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 7,860 | 5.1 | 16,400 | 11,700 | 1,280 | NS (7,273) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | 3.3 | NS (2.7) | <2.0 |
| MW-10 | NA | NA | NA | 8.6 | 8.7 | NS (13) | 17 | 4.4 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: PCE Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 6.0 | <2.0 | 18 | 0.94 | <1.0 | <1.0 | 8.6 | <5.0 |
| MW-2 | 4.0 | 4.4 | 4.2 | 2.7 | 1.3 | NS (1.3) | NS (1.3) | NS (1.3) |
| MW-3 | 273 | 251 | 455 | 763 | 108 | 187 | 35 | <100 (100) |
| MW-4 | 1.7 | 1.8 | <5.0 | 5.3 | <1.0 | <1.0 | 2.1 | 2.4 |
| MW-5 | 1,330 | 2,710 | 800 | 253 | 336 | 275 | 326 | <20 (20) |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 13,200 | 12,300 | 6,440 | 6,560 | 6,060 | 2,900 | 3,530 | <100 (100) |
| MW-8 | <2.0 | <2.0 | 51 | <5.0 | 1.9 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | 1.5 | <1.0 | <1.0 | 4.3 | <1.0 |
| MW-10 | 11 | 6.0 | 2.6 | 1.5 | 2.7 | 4.1 | 7.5 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | 1.1 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: PCE Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | <20 (5.0) | <1.0 | <2.0 | <20 (2.0) | <1.0 | <1.0 |
| MW-2 | NS (1.3) | NS (1.3) | NS (1.3) | NS (1.3) | 1.3 | <1.0 |
| MW-3 | 290 | 760 | 1,500 | 320 | 290 | 380 |
| MW-4 | <1.0 | 11 | <1.0 | 4.0 | <1.0 | 3.1 |
| MW-5 | 290 | <1.0 | <10 | <10 (1.0) | <1.0 | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA |
| MW-7 | 41 | <1.0 | <10 | <10 (1.0) | <1.0 | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: PCE Upper Shallow

| | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|--------------|-----------|------------|------------|------------|------------|------------|
| MW-1 | <100 (1.0) | <1.0 | <20 (3.1) | <10 (3.7) | <5.0 | <20 (4.5) | 4.9 |
| MW-2 | <5.0 | <1.0 | 4.8 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | <2,500 (191) | 2.4 | <200 (2.0) | <100 (2.0) | <200 (2.0) | <500 (2.0) | <200 (2.0) |
| MW-4 | <5.0 | 4.0 | 0.67 | 2.4 | 4.6 | 2.0 | 2.4 |
| MW-5 | 70 | NS (93) | 120 | 110 | 85 | 130 | 130 |
| MW-6R | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <100 (1.0) | <1.0 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | <5.0 | <1.0 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: TCE Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 |
|--------------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| MW-1 | 60 | 29 | 24 | 8.9 | 8.0 | 14 | 5.0 |
| MW-2 | <2.0 | 2.0 | NS (2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 60 | <2.0 | NS (58) | 87 | 2,180 | 1,610 | 3,870 |
| MW-4 | 7.4 | <2.0 | NS (2.1) | NS (2.2) | 2.2 | <2.0 | <2.0 |
| MW-5 | NA | 1,970 | NS (1,451) | 1,190 | 3,380 | 2,360 | 1,560 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 4,150 | 9.6 | 3,690 | 7,700 | 1,030 |
| MW-8 | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | 2.8 | NS (2.4) |
| MW-10 | NA | NA | NA | 3.6 | 3.5 | 1.2 | 3.3 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA |
| MW-14 | NA | NA | NA | NA | NA | NA | NA |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

-  Non-Sampled well assumed non-detect
-  Interpolated between two sampling events.

Ricker Method® Input Data: TCE Upper Shallow

| | Sep. 2003 | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 |
|--------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <2.0 | 4.2 | 1.5 | 9.1 | 2.4 | <1.0 | 1.5 |
| MW-2 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-3 | 51 | 185 | 197 | 181 | 521 | 185 | 77 |
| MW-4 | <2.0 | 1.6 | <2.0 | <5.0 | 3.0 | <1.0 | <1.0 |
| MW-5 | 1,630 | 1,640 | 2,540 | 1,870 | 1,530 | 878 | 722 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NS (3,152) | 5,250 | 5,900 | 3,090 | 5,390 | 4,640 | 3,220 |
| MW-8 | NA | <2.0 | <2.0 | 40 | <5.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | 2.4 | 1.4 | 1.0 | 1.4 | <1.0 | 1.1 |
| MW-11 | <2.0 | <2.0 | <2.0 | <5.0 | 0.44 | <1.0 | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-13 | <2.0 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-14 | <2.0 | 2.6 | NS (2.3) | 2.1 | 2.2 | 1.7 | NS (1.6) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

| | |
|--|---|
| | Non-Sampled well assumed non-detect |
| | Interpolated between two sampling events. |

Ricker Method® Input Data: TCE Upper Shallow

| | Mar. 2007 | Sep. 2007 | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 14 | <5.0 | <20 (2.0) | <1.0 | <2.0 | <20 (2.0) | <1.0 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 |
| MW-3 | 484 | 2,400 | 1,000 | 2,900 | 5,600 | 1,400 | 1,000 |
| MW-4 | 4.4 | 2.2 | <1.0 | 19 | <1.0 | 5.0 | <1.0 |
| MW-5 | 690 | <20 (20) | 560 | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 5,850 | 1,300 | 250 | 38 | <10 (1.0) | <10 (1.0) | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | 12 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | 24 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (1.5) | NS (1.4) | NS (1.3) | NS (1.2) | NS (1.1) | <1.0 | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: TCE Upper Shallow

| | Sep. 2010 | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 |
|--------------|-----------|--------------|-----------|-----------|-----------|------------|-----------|
| MW-1 | <1.0 | <100 (1.0) | <1.0 | <20 (3.9) | <10 (4.6) | <5.0 (5.1) | <20 (5.8) |
| MW-2 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 1,600 | <2,500 (808) | 18 | <200 (20) | <100 (20) | <200 (20) | <500 (20) |
| MW-4 | 3.3 | <5.0 | 4.9 | 1.3 | 5.3 | 5.9 | 4.7 |
| MW-5 | <1.0 | 244 | NS (211) | 170 | 190 | 230 | 220 |
| MW-6R | NA | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <1.0 | <100 (1.0) | <1.0 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) |
| MW-8 | <1.0 | <5.0 | <1.0 | NS (<1.0) | <1.0 | <1.0 | <1.0 |
| MW-9 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | NA | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | <1.0 | <1.0 | <1.0 |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: TCE Upper Shallow

| | Mar. 2019 |
|-------|-----------|
| MW-1 | 6.3 |
| MW-2 | <1.0 |
| MW-3 | <200 (20) |
| MW-4 | 4.6 |
| MW-5 | 250 |
| MW-6R | <1.0 |
| MW-7 | <5.0 |
| MW-8 | <1.0 |
| MW-9 | NS (<1.0) |
| MW-10 | <1.0 |
| MW-11 | <1.0 |
| MW-12 | NS (<1.0) |
| MW-13 | NS (<1.0) |
| MW-14 | <1.0 |
| MW-15 | <1.0 |
| MW-16 | <1.0 |

Ricker Method® Input Data: cis-1,2-DCE Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|------------|-----------|-----------|-----------|-----------|------------|
| MW-1 | 18,000 | 17,600 | 10,600 | 8,580 | 5,090 | 6,550 | 8,820 | 6,130 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 660 | 2,540 | NS (1,895) | 1,570 | 6,800 | 20,600 | 17,700 | 2,760 |
| MW-4 | 4.5 | <2.0 | NS (3.2) | NS (3.7) | 4.3 | <2.0 | <2.0 | 1.2 |
| MW-5 | NA | <2.0 | NS (424) | 636 | 1,280 | 1,290 | 978 | 1,110 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 5,880 | 10,900 | 4,140 | 8,480 | 2,480 | NS (4,581) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | 2.3 | 5.5 | 4.3 | 1.7 | 3.4 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | 37 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

-  Non-Sampled well assumed non-detect
-  Interpolated between two sampling events.

Ricker Method® Input Data: cis-1,2-DCE Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 12,300 | 5,200 | 8,200 | 12,400 | 5,280 | 7,530 | 3,120 | 700 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 1,600 | 1,920 | 2,060 | 3,500 | 2,840 | 2,450 | 13,100 | 29,000 |
| MW-4 | 2.3 | <2.0 | <5.0 | 2.5 | <1.0 | 1.2 | 10 | 2.7 |
| MW-5 | 1,120 | 2,000 | 1,860 | 3,010 | 2,850 | 2,620 | 3,060 | 3,500 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 6,660 | 6,500 | 2,690 | 5,290 | 2,930 | 2,480 | 5,810 | 21,000 |
| MW-8 | <2.0 | <2.0 | 21 | <5.0 | <1.0 | <1.0 | 12 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | 0.28 | <1.0 | <1.0 | 7.7 | <1.0 |
| MW-10 | 1.5 | 2.0 | 1.0 | 1.9 | <1.0 | 1.3 | 20 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | 0.32 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | 12 | NS (7.4) | 3.0 | 2.7 | 1.7 | NS | NS | NS |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | 0.54 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: cis-1,2-DCE Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 4,800 | 2,200 | 2,800 | 6,500 | 5,300 | 1,200 | 1,650 | 734 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 21,000 | 46,000 | 42,000 | 45,000 | 45,000 | 41,000 | 46,100 | 9,460 |
| MW-4 | <1.0 | 11 | <1.0 | 5.8 | <1.0 | 2.6 | <5.0 | 4.8 |
| MW-5 | 2,200 | 2,800 | 2,400 | 2,000 | 2,100 | 1,600 | 750 | NS (750) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | 3,900 | 7,300 | 550 | 340 | 870 | 850 | 1,890 | 200 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: cis-1,2-DCE Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|-------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 1,800 | 1,100 | 420 | 890 | 1,400 |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 11,000 | 7,300 | 16,000 | 24,000 | 15,000 |
| MW-4 | 1.1 | 6.8 | 6.8 | 5.9 | 4.1 |
| MW-5 | 800 | 490 | 280 | 300 | 320 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 640 | 1,100 | 1,700 | 3,100 | 440 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS | NS | NS | NS | NS |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: trans-1,2-DCE Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 60 | 361 | 78 | 54 | 24 | 80 | 48 | 15 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 14 | 40 | NS (15) | <2.0 | 123 | 240 | 190 | 88 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | 6.0 | NS (7.1) | 7.6 | 22 | 21 | 24 | 16 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 69 | 54 | 46 | 103 | 62 | NS (80) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: trans-1,2-DCE Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 153 | 49 | 58 | 133 | <1.0 | 32 | 14 | <5.0 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 53 | 35 | 31 | 19 | 35 | 36 | 140 | 220 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 14 | 21 | 26 | 26 | 17 | 20 | 20 | 24 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 97 | 150 | 35 | 44 | <1.0 | 16 | 24 | <100 (16) |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: trans-1,2-DCE Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|
| MW-1 | 22 | <1.0 | 15 | 28 | 21 | 5.6 | <100 (5.0) | 4.3 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 170 | 300 | 370 | 320 | 270 | 320 | <2,500 (250) | 179 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-5 | 16 | 18 | 15 | 14 | 10 | 9.2 | <25 (9.2) | NS (9.2) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | <20 (8.7) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <100 (1.0) | 1.6 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: trans-1,2-DCE Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|-------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <20 (9.6) | 11 | 2.0 | <20 (3.6) | 4.8 |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 85 | 53 | 170 | 270 | 120 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 9.2 | 6.6 | 2.6 | 3.4 | 2.9 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCE Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 26 | 68 | 27 | <2.0 | 12 | 19 | 20 | 1.3 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 40 | 247 | NS (194) | 167 | 1,220 | 2,560 | 2,740 | 176 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | 2.9 | NS (3.3) | 3.5 | 5.0 | 5.5 | <2.0 | 2.6 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 2.9 | 24 | 12 | 22 | 5.1 | NS (6.5) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCE Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 25 | 18 | 16 | 18 | <1.0 | 18 | 14 | <5.0 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 480 | 270 | 189 | 186 | 195 | 164 | 954 | 2,300 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 4.4 | 5.1 | 6.0 | 7.9 | <1.0 | 8.2 | <10 (5.0) | <20 (5.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 7.9 | 12 | 7.5 | 13 | <1.0 | 8.6 | 15 | <100 (10) |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCE Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|
| MW-1 | <20 | <1.0 | 5.3 | <20 | <1.0 | 2.0 | <100 (1.0) | 1.8 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 1,700 | 3,000 | 3,800 | 2,500 | 2,400 | 2,100 | <2,500 (1,250) | 616 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-5 | <10 (5.0) | <1.0 | <10 | <10 | 5.9 | <1.0 | <25 (2.5) | NS (<2.5) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | <20 (2.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCE Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|-------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <20 (1.0) | <10 (1.0) | <5.0 | <20 (1.0) | <10 (1.0) |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 420 | 330 | 690 | 950 | 540 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <5.0 | <10 (5.0) | 6.6 | 1.7 | <5.0 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: vinyl chloride Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 49 | <2.0 | 105 | 76 | 29 | 65 | 110 | 5.8 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 63 | 325 | NS (110) | <2.0 | 1,420 | 1,260 | 1,810 | 136 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (6.7) | 9.1 | 8.0 | 7.5 | 1.2 | 2.6 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 190 | 69 | 240 | 294 | 103 | NS (373) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: vinyl chloride Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 120 | 77 | 86 | 112 | 75 | 104 | 59 | 19 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 195 | 154 | 99 | 63 | 154 | 259 | 817 | 1,400 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 7.9 | 7.3 | 7.0 | 7.0 | 7.3 | 9.3 | 12 | 79 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 641 | 137 | 104 | 156 | 120 | 81 | 132 | 350 |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: vinyl chloride Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|
| MW-1 | 86 | 32 | 98 | 150 | 170 | 28 | <100 (10) | 22 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 1,100 | 1,600 | 1,700 | 710 | 1,700 | 2,200 | <2,500 (1,250) | 709 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-5 | 43 | 160 | <10 | 480 | 9.2 | 81 | <25 (25) | NS (17) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | 170 | 400 | 340 | 450 | 730 | 140 | 472 | 319 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: vinyl chloride Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 67 | 58 | 8.4 | 56 | 33 |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 700 | 520 | 1,200 | 2,000 | 900 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 6.6 | 6.7 | 3.4 | 5.7 | 3.5 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 200 | 710 | 460 | 510 | 200 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:

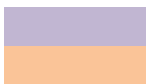
All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.



Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,1-TCA Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 20 | 383 | NS (130) | <2.0 | 1,740 | 451 | 4,600 | 145 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | <2.0 | <2.0 | <2.0 | 10 | <2.0 | NS (<2.0) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,1-TCA Upper Shallow

| Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 | Mar. 2008 |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <10 (1.0) | <5.0 | <20 (1.0) |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| 316 | <2.0 | 102 | <5.0 | 50 | 28 | 734 | 2,600 | 1,700 |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <10 (1.0) | <20 (1.0) | <10 (1.0) |
| NA | NA | NA | NA | NA | NA | NA | NA | NA |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | 1.2 | <100 (1.0) | <20 (1.0) |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| NA | NA | NA | NA | NA | NA | NA | NA | NA |
| NA | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,1-TCA Upper Shallow

| Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 |
|-----------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|
| <1.0 | <2.0 | <20 (1.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 | <20 (1.0) | <10 (1.0) |
| NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| 2,900 | 4,400 | 2,400 | 2,400 | 1,400 | <2,500 (1,250) | 20 | <200 (20) | <100 (20) |
| <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <25 (1.0) | NS (<1.0) | <5.0 | <10 (1.0) |
| NA | NA | NA | NA | NA | <5.0 | <1.0 | <1.0 | <1.0 |
| <1.0 | <10 | <10 | <1.0 | <1.0 | <100 (1.0) | <1.0 | <5.0 | <20 (1.0) |
| <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | NS (<1.0) | <1.0 |
| <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 | <1.0 | <1.0 |
| NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 | <1.0 | <1.0 |
| NA | NA | NA | NA | NA | <5.0 | <1.0 | <1.0 | <1.0 |
| NA | NA | NA | NA | NA | NA | NA | NA | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,1-TCA Upper Shallow

| Mar. 2018 | Oct. 2018 | Mar. 2019 |
|------------------|------------------|------------------|
| <5.0 | <20 (1.0) | <10 (1.0) |
| <1.0 | <1.0 | <1.0 |
| <200 (20) | <500 (20) | <200 (20) |
| <1.0 | <1.0 | <1.0 |
| <5.0 | <1.0 | <5.0 |
| <1.0 | <1.0 | <1.0 |
| <20 (1.0) | <50 (1.0) | <5.0 |
| <1.0 | <1.0 | <1.0 |
| NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <1.0 | <1.0 | <1.0 |
| <1.0 | <1.0 | <1.0 |
| NS (<1.0) | NS (<1.0) | NS (<1.0) |
| NS (<1.0) | NS (<1.0) | NS (<1.0) |
| <1.0 | <1.0 | <1.0 |
| <1.0 | <1.0 | <1.0 |
| <1.0 | <1.0 | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,2-TCA Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 12 | <2.0 | <2.0 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 20 | <2.0 | NS (53) | 78 | 727 | 231 | 1,670 | 105 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (2.4) | 2.5 | 1.2 | <2.0 | <2.0 | 1.6 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | <2.0 | <2.0 | 7.7 | 12 | <2.0 | NS (<2.0) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,2-TCA Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| MW-1 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <10 (1.0) | <5.0 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 144 | <2.0 | 90 | <5.0 | 73 | 22 | 407 | 1,200 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <10 | <20 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | <2.0 | <2.0 | 3.9 | <5.0 | <1.0 | 3.2 | 4.9 | <100 (2.5) |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,2-TCA Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| MW-1 | <20 (1.0) | <1.0 | <2.0 | <20 (2.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 690 | 3,200 | 4,200 | 3,800 | 3,100 | 2,700 | 2,860 | 88 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-5 | <10 | <1.0 | <10 | <10 | <1.0 | <1.0 | <25 (1.0) | NS (<1.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | <20 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (1.0) | NS (1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (1.0) | NS (1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1,2-TCA Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | <20 | <10 | <5.0 | <20 (1.0) | <10 (1.0) |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | <200 (100) | <100 (50) | <200 (50) | <500 (50) | <200 (50) |
| MW-4 | <1.0 | 0.84 | 0.99 | 0.67 | 0.67 |
| MW-5 | <5.0 | <10 | 2.1 | 1.0 | <5.0 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCA Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <2.0 | <2.0 | 2.2 | <2.0 | <2.0 | <2.0 | 1.5 | 1.3 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 127 | 460 | NS (243) | 133 | 1,900 | 3,040 | 3,060 | 214 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | 6.9 | NS (5.5) | 4.8 | 1.9 | 1.6 | <2.0 | <2.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | NS (<2.0) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCA Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| MW-1 | 153 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | 7.4 | <5.0 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 486 | <2.0 | 208 | <5.0 | 339 | 235 | 1,200 | 2,400 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 2.3 | 4.4 | <5.0 | <5.0 | <1.0 | 4.2 | 4.4 | <20 (2.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <100 (1.0) |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-13 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCA Upper Shallow

| | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| MW-1 | <20 (2.0) | <1.0 | <2.0 | <20 (2.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-3 | 1,800 | 3,900 | 4,100 | 4,000 | 3,800 | 3,900 | 4,140 | 908 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-5 | <10 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | 6.3 | <1.0 | <25 (1.0) | NS (<1.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-7 | <20 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <100 (1.0) | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <5.0 | <1.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | <5.0 | <1.0 |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,1-DCA Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|-------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <20 (1.0) | <10 (1.0) | <5.0 | <20 (1.0) | <10 (1.0) |
| MW-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | 890 | 680 | 1,200 | 1,800 | 1,100 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | 3.7 | <10 (5.0) | 6.6 | 5.3 | 4.6 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,2-DCA Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 4.2 | <2.0 | 2.3 | 1.9 | 4.5 | 1.9 | 1.0 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 7.8 | <2.0 | NS (8.1) | 11 | 57 | 26 | 69 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (<2.0) | <2.0 | 1.2 | <2.0 | <2.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | <2.0 | 2.0 | <2.0 | <2.0 | <2.0 |
| MW-8 | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA |
| MW-14 | NA | NA | NA | NA | NA | NA | NA |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: 1,2-DCA Upper Shallow

| | Sep. 2003 | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <2.0 | 2.2 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-2 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-3 | 17 | 5.7 | <2.0 | 7.3 | <5.0 | 12 | 12 |
| MW-4 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-5 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NS (<2.0) | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-8 | NA | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 |
| MW-13 | <2.0 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-14 | <2.0 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: 1,2-DCA Upper Shallow

| | Mar. 2007 | Sep. 2007 | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 |
|--------------|-----------|------------|-----------|-----------|------------|------------|-----------|-----------|
| MW-1 | <10 (1.0) | <5.0 | <20 (1.0) | <1.0 | <2.0 | <20 (2.0) | <1.0 | <1.0 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 |
| MW-3 | 32 | <100 (30) | 34 | <1.0 | <200 (1.0) | <200 (1.0) | <1.0 | <1.0 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <10 (1.0) | <20 (1.0) | <10 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | <1.0 | <100 (1.0) | <20 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:


All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: 1,2-DCA Upper Shallow

| | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <100 (1.0) | <1.0 | <20 (1.0) | <10 (1.0) | <5.0 | <20 (1.0) | <10 (1.0) |
| MW-2 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | <2,500 (25) | 28 | <200 (40) | 43 | <200 (43) | <500 (43) | <200 (43) |
| MW-4 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <25 (1.0) | NS (<1.0) | <5.0 | <10 (1.0) | <5.0 | 0.75 | <5.0 |
| MW-6R | <5.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <100 (1.0) | <1.0 | <5.0 | <20 (1.0) | <20 (1.0) | <50 (1.0) | <5.0 |
| MW-8 | <5.0 | <1.0 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <5.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:

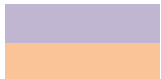
All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.



Non-Sampled well assumed non-detect

Interpolated between two sampling events.

Ricker Method® Input Data: Toluene Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 1,050 | 979 | 436 | 396 | 317 | 344 | 265 | 19 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | <2.0 | 7.9 | NS (4.9) | 3.3 | 121 | 228 | 253 | 4.5 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (<2.0) | <2.0 | 1.6 | <2.0 | <2.0 | <2.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 69 | 446 | 70 | 116 | 19 | NS (67) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 | <2.0 | 2.5 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | 2.5 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Toluene Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 766 | 422 | 264 | 524 | 110 | 209 | 26 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-3 | <2.0 | <2.0 | <5.0 | 1.8 | <1.0 | 3.9 | 68 |
| MW-4 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <2.0 | <2.0 | <5.0 | 0.25 | <1.0 | <1.0 | <10 (1.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 114 | 57 | 35 | 59 | <1.0 | 23 | 39 |
| MW-8 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) |
| MW-13 | <2.0 | NS (2.0) | 2.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-14 | 11 | NS (8.2) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Toluene Upper Shallow

| | Sep. 2007 | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <5.0 | 64 | 28 | 18 | 69 | 20 | 2.5 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 |
| MW-3 | 220 | 170 | 400 | 520 | 380 | 390 | 350 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <20 (1.0) | <10 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | <100 (10) | <20 (10) | 27 | <10 | 25 | 33 | 7.2 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

-  Non-Sampled well assumed non-detect
-  Interpolated between two sampling events.

Ricker Method® Input Data: Toluene Upper Shallow

| | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|--------------|-----------|------------|-----------|-----------|------------|-----------|
| MW-1 | <100 (5.0) | 7.8 | 15 | 5.0 | <5.0 | <20 (2.5) | <10 (5.0) |
| MW-2 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-3 | <2,500 (250) | 77 | <200 (100) | <100 | 110 | <500 (110) | 97 |
| MW-4 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <25 (1.0) | NS (<1.0) | <5.0 | <10 (1.0) | <5.0 | <1.0 | <5.0 |
| MW-6R | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | <100 (5.0) | 2.8 | <5.0 | <20 (2.5) | <20 (2.5) | <50 (2.5) | <5.0 |
| MW-8 | <5.0 | <1.0 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: Ethylbenzene Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 | Mar. 2003 | Sep. 2003 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| MW-1 | 1,950 | 1,890 | 1,050 | 854 | 635 | 1,900 | 938 | 441 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-3 | 250 | 21 | NS (14) | 10.0 | 386 | 900 | 669 | 13 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (<2.0) | <2.0 | 25 | 1.6 | <2.0 | <2.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 1,020 | 1,010 | 1,580 | 1,900 | 356 | NS (1,278) |
| MW-8 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 | NS (<2.0) | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 |
| MW-12 | NA | NA | NA | NA | <2.0 | 2.0 | 1.5 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-14 | NA | NA | NA | NA | NA | NA | NA | <2.0 |
| MW-15 | NA | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: Ethylbenzene Upper Shallow

| | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 | Mar. 2006 | Sep. 2006 | Mar. 2007 |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 1,910 | 680 | 820 | 1,380 | 520 | 922 | 159 |
| MW-2 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-3 | 1.3 | <2.0 | 4.0 | 4.9 | <1.0 | 13 | 339 |
| MW-4 | <2.0 | <2.0 | <5.0 | 0.66 | <1.0 | <1.0 | <1.0 |
| MW-5 | <2.0 | <2.0 | 1.5 | 3.0 | <1.0 | <1.0 | <10 (1.0) |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 2,190 | 2,140 | 1,110 | 1,350 | 1,020 | 625 | 1,240 |
| MW-8 | <2.0 | <2.0 | 9.1 | <5.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | 1.9 |
| MW-10 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | 3.2 |
| MW-11 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | <2.0 | <2.0 | <5.0 | <5.0 | <1.0 | <1.0 | NS (<1.0) |
| MW-13 | 2.2 | NS (2.4) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-14 | <2.0 | NS (<2.0) | <5.0 | <5.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l


NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Ethylbenzene Upper Shallow

| | Sep. 2007 | Mar. 2008 | Sep. 2008 | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 |
|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 13 | 460 | 94 | 270 | 550 | 450 | 45 |
| MW-2 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 |
| MW-3 | 820 | 580 | 1,200 | 1,300 | 920 | 1,100 | 920 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <20 (1.0) | <10 (1.0) | <1.0 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA | NA |
| MW-7 | 1,900 | 340 | 810 | 200 | 750 | 1,300 | 210 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA | NA |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: Ethylbenzene Upper Shallow

| | Sep. 2012 | Sep. 2014 | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | <100 (10) | 33 | 81 | 10 | <5.0 | 33 | 32 |
| MW-2 | <5.0 | <1.0 | <1.0 | 0.46 | <1.0 | <1.0 | <1.0 |
| MW-3 | <2,500 (250) | 196 | 130 | 90 | 330 | 530 | 310 |
| MW-4 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <25 (1.0) | NS (<1.0) | <5.0 | <10 (1.0) | <5.0 | <1.0 | <5.0 |
| MW-6R | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 431 | 104 | 84 | 130 | 100 | 200 | 79 |
| MW-8 | <5.0 | <1.0 | NS (<1.0) | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:



All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect
 Interpolated between two sampling events.

Ricker Method® Input Data: Xylenes Upper Shallow

| | Sep. 1999 | Mar. 2000 | Mar. 2001 | Sep. 2001 | Mar. 2002 | Sep. 2002 |
|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| MW-1 | 8,260 | 7,820 | 4,260 | 2,720 | 2,680 | 9,870 |
| MW-2 | <2.0 | <2.0 | NS (<2.0) | <2.0 | <2.0 | <2.0 |
| MW-3 | 1,480 | 69 | NS (64) | 62 | 1,530 | 3,828 |
| MW-4 | <2.0 | <2.0 | NS (<2.0) | NS (<2.0) | <2.0 | <2.0 |
| MW-5 | NA | <2.0 | NS (<2.0) | <2.0 | 145 | 3.3 |
| MW-6R | NA | NA | NA | NA | NA | NA |
| MW-7 | NA | NA | 3,430 | 3,016 | 8,000 | 10,950 |
| MW-8 | NA | NA | NA | NA | NA | NA |
| MW-9 | NA | NA | NA | NA | <2.0 | <2.0 |
| MW-10 | NA | NA | NA | <2.0 | <2.0 | <2.0 |
| MW-11 | NA | NA | NA | NA | <2.0 | NS (<2.0) |
| MW-12 | NA | NA | NA | NA | <2.0 | <2.0 |
| MW-13 | NA | NA | NA | NA | NA | NA |
| MW-14 | NA | NA | NA | NA | NA | NA |
| MW-15 | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Xylenes Upper Shallow

| | Mar. 2003 | Sep. 2003 | Mar. 2004 | Sep. 2004 | Mar. 2005 | Sep. 2005 |
|-------|-----------|------------|-----------|-----------|-----------|-----------|
| MW-1 | 4,040 | 2,193 | 9,220 | 3,220 | 3,940 | 6,580 |
| MW-2 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 |
| MW-3 | 2,912 | 60 | 8.4 | 2.0 | 43 | 43 |
| MW-4 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | 2.5 |
| MW-5 | <2.0 | <2.0 | 3.5 | <2.0 | 6.4 | 13 |
| MW-6R | NA | NA | NA | NA | NA | NA |
| MW-7 | 1,606 | NS (5,710) | 9,770 | 9,000 | 4,170 | 5,440 |
| MW-8 | NA | NA | <2.0 | <2.0 | 33 | <5.0 |
| MW-9 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <5.0 | <5.0 |
| MW-10 | <2.0 | <2.0 | <2.0 | <2.0 | <5.0 | 0.39 |
| MW-11 | NS (<2.0) | <2.0 | <2.0 | <2.0 | <5.0 | 0.36 |
| MW-12 | <2.0 | 1.9 | <2.0 | <2.0 | <5.0 | <5.0 |
| MW-13 | NA | <2.0 | <2.0 | NS (<1.0) | <5.0 | <5.0 |
| MW-14 | NA | <2.0 | <2.0 | NS (<1.0) | <5.0 | <5.0 |
| MW-15 | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Xylenes Upper Shallow

| | Mar. 2006 | Sep. 2006 | Mar. 2007 | Sep. 2007 | Mar. 2008 | Sep. 2008 |
|--------------|------------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 2,430 | 3,910 | 736 | 5.2 | 1,900 | 460 |
| MW-2 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-3 | 16 | 72 | 1,400 | 3,300 | 2,300 | 4,500 |
| MW-4 | <1.0 | <1.0 | 3.3 | <1.0 | <1.0 | <1.0 |
| MW-5 | <1.0 | 1.5 | <10 (1.0) | <20 (1.0) | <10 (1.0) | <1.0 |
| MW-6R | NA | NA | NA | NA | NA | NA |
| MW-7 | 4,040 | 2,350 | 4,650 | 7,300 | 1,500 | 3,400 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.9 |
| MW-9 | <1.0 | <1.0 | 7.6 | <1.0 | <1.0 | <1.0 |
| MW-10 | <1.0 | <1.0 | 12 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-12 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-15 | NA | NA | NA | NA | NA | NA |
| MW-16 | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Xylenes Upper Shallow

| | Mar. 2009 | Sep. 2009 | Mar. 2010 | Sep. 2010 | Sep. 2012 | Sep. 2014 |
|-------|-----------|-----------|-----------|-----------|----------------|-----------|
| MW-1 | 1,000 | 2,300 | 1,900 | 160 | 403 | 99 |
| MW-2 | NS (<1.0) | NS (<1.0) | <1.0 | <1.0 | <15 (2.0) | <2.0 |
| MW-3 | 4,800 | 3,600 | 4,600 | 3,600 | <7,500 (3,750) | 817 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <15 (2.0) | <2.0 |
| MW-5 | <10 (1.0) | <10 (1.0) | <1.0 | <1.0 | <75 (1.0) | NS (<1.0) |
| MW-6R | NA | NA | NA | NA | <15 (2.0) | <2.0 |
| MW-7 | 790 | 3,300 | 5,700 | 870 | 1,720 | 373 |
| MW-8 | <1.0 | <1.0 | <1.0 | <1.0 | <15 (2.0) | <2.0 |
| MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <15 (2.0) | <2.0 |
| MW-11 | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <15 (2.0) | <2.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | NS (<1.0) | <1.0 | NS (<1.0) | NS (<1.0) | <15 (2.0) | <2.0 |
| MW-15 | NA | NA | NA | NA | <15 (2.0) | <2.0 |
| MW-16 | NA | NA | NA | NA | NA | NA |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Input Data: Xylenes Upper Shallow

| | Feb. 2017 | Oct. 2017 | Mar. 2018 | Oct. 2018 | Mar. 2019 |
|--------------|------------------|------------------|------------------|------------------|------------------|
| MW-1 | 380 | 53 | 12 | 140 | 200 |
| MW-2 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 |
| MW-3 | 530 | 320 | 1,300 | 2,100 | 1,200 |
| MW-4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-5 | <5.0 | <10 (1.0) | <5.0 | <1.0 | <5.0 |
| MW-6R | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-7 | 320 | 420 | 310 | 960 | 210 |
| MW-8 | NS (<2.0) | <1.0 | <1.1 | <1.1 | <1.0 |
| MW-9 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-10 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-11 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-12 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-13 | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) | NS (<1.0) |
| MW-14 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-15 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| MW-16 | NA | <1.0 | <1.0 | <1.0 | <1.0 |

Notes:

All concentrations in µg/l

NA: Well not installed, abandoned or otherwise not utilized.

<5.00: Analyte not detected. (In general, non-detect values were used in the analysis at one-half the reported detection limit.)

<100 (21.0): Analyte not detected. Elevated detection limit, interpolated or extrapolated value shown.

NS: Well not sampled, interpolated or extrapolated value shown - refer to shading for more specific explanation.

 Non-Sampled well assumed non-detect

 Interpolated between two sampling events.

Ricker Method® Plume Stability Analysis Metrics Summary

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| PCE Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 16.6 | 497 | 67.3 |
| Mar-2000 | 12.7 | 72 | 7.4 |
| Mar-2001 | 19.6 | 347 | 55.4 |
| Sep-2001 | 19.5 | 72 | 11.5 |
| Mar-2002 | 18.8 | 144 | 22.1 |
| Sep-2002 | 18.6 | 155 | 23.5 |
| Mar-2003 | 18.7 | 140 | 21.3 |
| Sep-2003 | 17.0 | 80 | 11.1 |
| Mar-2004 | 17.1 | 158 | 22.1 |
| Sep-2004 | 16.7 | 161 | 21.9 |
| Mar-2005 | 17.4 | 170 | 24.1 |
| Sep-2005 | 15.2 | 150 | 18.5 |
| Mar-2006 | 13.7 | 66 | 7.3 |
| Sep-2006 | 13.5 | 69 | 7.5 |
| Mar-2007 | 14.7 | 64 | 7.7 |
| Sep-2007 | 12.5 | 31 | 3.2 |
| Mar-2008 | 14.0 | 69 | 7.8 |
| Sep-2008 | 8.1 | 131 | 8.6 |
| Mar-2009 | 7.7 | 205 | 12.8 |
| Sep-2009 | 7.6 | 65 | 4.0 |
| Mar-2010 | 6.3 | 60 | 3.1 |
| Sep-2010 | 7.0 | 75 | 4.3 |
| Sep-2012 | 10.5 | 29 | 2.5 |
| Sep-2014 | 6.3 | 14 | 0.7 |
| Feb-2017 | 6.7 | 17 | 0.9 |
| Oct-2017 | 6.5 | 16 | 0.8 |
| Mar-2018 | 7.1 | 14 | 0.8 |
| Oct-2018 | 6.9 | 17 | 1.0 |
| Mar-2019 | 7.1 | 17 | 1.0 |

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| TCE Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 14.9 | 36 | 4.3 |
| Mar-2000 | 14.4 | 71 | 8.4 |
| Mar-2001 | 17.0 | 230 | 32.0 |
| Sep-2001 | 17.4 | 62 | 8.8 |
| Mar-2002 | 17.0 | 397 | 55.0 |
| Sep-2002 | 16.8 | 374 | 51.2 |
| Mar-2003 | 16.7 | 438 | 59.8 |
| Sep-2003 | 16.5 | 73 | 9.9 |
| Mar-2004 | 15.8 | 124 | 16.0 |
| Sep-2004 | 15.6 | 132 | 16.9 |
| Mar-2005 | 17.1 | 128 | 17.9 |
| Sep-2005 | 15.5 | 178 | 22.5 |
| Mar-2006 | 13.9 | 90 | 10.3 |
| Sep-2006 | 13.9 | 64 | 7.3 |
| Mar-2007 | 15.7 | 228 | 29.2 |
| Sep-2007 | 12.5 | 322 | 32.9 |
| Mar-2008 | 14.0 | 157 | 17.9 |
| Sep-2008 | 9.8 | 384 | 30.7 |
| Mar-2009 | 8.2 | 597 | 39.7 |
| Sep-2009 | 8.3 | 201 | 13.7 |
| Mar-2010 | 7.1 | 153 | 8.8 |
| Sep-2010 | 7.7 | 227 | 14.3 |
| Sep-2012 | 12.6 | 71 | 7.3 |
| Sep-2014 | 10.4 | 22 | 1.9 |
| Feb-2017 | 10.7 | 19 | 1.7 |
| Oct-2017 | 11.2 | 22 | 2.0 |
| Mar-2018 | 11.4 | 24 | 2.3 |
| Oct-2018 | 11.4 | 23 | 2.2 |
| Mar-2019 | 11.5 | 25 | 2.4 |

| Ricker Method® Plume Stability Characteristics cis-1,2-DCE Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 15.6 | 2,658 | 337 |
| Mar-2000 | 13.9 | 4,222 | 479 |
| Mar-2001 | 16.7 | 2,190 | 298 |
| Sep-2001 | 17.0 | 2,397 | 333 |
| Mar-2002 | 17.2 | 1,913 | 268 |
| Sep-2002 | 16.9 | 3,718 | 512 |
| Mar-2003 | 16.7 | 3,244 | 442 |
| Sep-2003 | 16.7 | 1,355 | 185 |
| Mar-2004 | 16.5 | 1,708 | 230 |
| Sep-2004 | 16.6 | 1,455 | 197 |
| Mar-2005 | 17.1 | 1,425 | 198 |
| Sep-2005 | 16.4 | 2,446 | 326 |
| Mar-2006 | 15.7 | 1,693 | 217 |
| Sep-2006 | 15.8 | 1,737 | 223 |
| Mar-2007 | 17.0 | 3,362 | 467 |
| Sep-2007 | 15.9 | 4,664 | 605 |
| Mar-2008 | 15.6 | 4,350 | 554 |
| Sep-2008 | 16.1 | 7,049 | 924 |
| Mar-2009 | 15.6 | 5,157 | 658 |
| Sep-2009 | 16.1 | 6,206 | 813 |
| Mar-2010 | 15.6 | 6,129 | 782 |
| Sep-2010 | 15.7 | 4,635 | 595 |
| Sep-2012 | 15.5 | 1,607 | 203 |
| Sep-2014 | 15.6 | 614 | 78 |
| Feb-2017 | 15.2 | 708 | 88 |
| Oct-2017 | 15.5 | 401 | 51 |
| Mar-2018 | 15.3 | 440 | 55 |
| Oct-2018 | 15.4 | 629 | 79 |
| Mar-2019 | 15.3 | 515 | 64 |

| Ricker Method® Plume Stability Characteristics trans-1,2-DCE Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 12.3 | 22 | 2.26 |
| Mar-2000 | 13.9 | 87 | 9.85 |
| Mar-2001 | 13.5 | 26 | 2.81 |
| Sep-2001 | 9.6 | 18 | 1.44 |
| Mar-2002 | 14.8 | 35 | 4.27 |
| Sep-2002 | 15.0 | 66 | 8.09 |
| Mar-2003 | 15.0 | 52 | 6.30 |
| Sep-2003 | 14.3 | 28 | 3.31 |
| Mar-2004 | 13.7 | 42 | 4.66 |
| Sep-2004 | 13.9 | 29 | 3.33 |
| Mar-2005 | 19.1 | 22 | 3.37 |
| Sep-2005 | 19.1 | 23 | 3.66 |
| Mar-2006 | 8.4 | 12 | 0.85 |
| Sep-2006 | 12.4 | 21 | 2.11 |
| Mar-2007 | 12.4 | 37 | 3.77 |
| Sep-2007 | 12.0 | 44 | 4.28 |
| Mar-2008 | 12.2 | 41 | 4.10 |
| Sep-2008 | 9.8 | 48 | 3.81 |
| Mar-2009 | 11.7 | 60 | 5.68 |
| Sep-2009 | 11.8 | 57 | 5.52 |
| Mar-2010 | 11.3 | 49 | 4.58 |
| Sep-2010 | 10.5 | 52 | 4.41 |
| Sep-2012 | 9.5 | 25 | 1.96 |
| Sep-2014 | 9.2 | 21 | 1.59 |
| Feb-2017 | 9.6 | 15 | 1.20 |
| Oct-2017 | 8.0 | 11 | 0.72 |
| Mar-2018 | 5.1 | 18 | 0.77 |
| Oct-2018 | 6.6 | 22 | 1.18 |
| Mar-2019 | 6.0 | 15 | 0.73 |

| Ricker Method® Plume Stability Characteristics 1,1-DCE Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 10.92 | 24 | 2.1 |
| Mar-2000 | 11.94 | 86 | 8.3 |
| Mar-2001 | 10.68 | 43 | 3.8 |
| Sep-2001 | 8.17 | 49 | 3.3 |
| Mar-2002 | 11.00 | 161 | 14.4 |
| Sep-2002 | 11.84 | 284 | 27.5 |
| Mar-2003 | 10.37 | 313 | 26.5 |
| Sep-2003 | 6.77 | 46 | 2.5 |
| Mar-2004 | 10.56 | 89 | 7.6 |
| Sep-2004 | 10.46 | 59 | 5.0 |
| Mar-2005 | 11.94 | 43 | 4.1 |
| Sep-2005 | 12.98 | 42 | 4.5 |
| Mar-2006 | 5.32 | 51 | 2.2 |
| Sep-2006 | 10.34 | 42 | 3.5 |
| Mar-2007 | 10.08 | 146 | 12.0 |
| Sep-2007 | 9.55 | 282 | 22.0 |
| Mar-2008 | 8.26 | 225 | 15.2 |
| Sep-2008 | 6.91 | 399 | 22.5 |
| Mar-2009 | 9.18 | 408 | 30.6 |
| Sep-2009 | 8.27 | 303 | 20.4 |
| Mar-2010 | 7.97 | 295 | 19.2 |
| Sep-2010 | 7.11 | 294 | 17.1 |
| Sep-2012 | 7.65 | 93 | 5.8 |
| Sep-2014 | 5.90 | 54 | 2.6 |
| Feb-2017 | 5.27 | 44 | 1.9 |
| Oct-2017 | 4.55 | 30 | 1.1 |
| Mar-2018 | 5.61 | 42 | 1.9 |
| Oct-2018 | 4.69 | 56 | 2.1 |
| Mar-2019 | 4.44 | 40 | 1.5 |

| Ricker Method® Plume Stability Characteristics Vinyl Chloride Upper Shallow | | | |
|--|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 14.2 | 31 | 3.6 |
| Mar-2000 | 11.6 | 45 | 4.2 |
| Mar-2001 | 15.3 | 65 | 8.1 |
| Sep-2001 | 14.0 | 17 | 1.9 |
| Mar-2002 | 15.3 | 162 | 20.2 |
| Sep-2002 | 15.3 | 164 | 20.4 |
| Mar-2003 | 13.6 | 215 | 23.8 |
| Sep-2003 | 13.4 | 32 | 3.5 |
| Mar-2004 | 14.6 | 79 | 9.5 |
| Sep-2004 | 14.5 | 50 | 6.0 |
| Mar-2005 | 14.5 | 40 | 4.7 |
| Sep-2005 | 14.5 | 37 | 4.4 |
| Mar-2006 | 14.5 | 49 | 5.8 |
| Sep-2006 | 14.8 | 67 | 8.1 |
| Mar-2007 | 14.9 | 130 | 15.8 |
| Sep-2007 | 16.0 | 186 | 24.2 |
| Mar-2008 | 15.8 | 177 | 22.9 |
| Sep-2008 | 16.4 | 227 | 30.4 |
| Mar-2009 | 14.8 | 248 | 30.0 |
| Sep-2009 | 16.9 | 209 | 28.8 |
| Mar-2010 | 14.8 | 291 | 35.0 |
| Sep-2010 | 16.1 | 248 | 32.5 |
| Sep-2012 | 15.3 | 57 | 7.2 |
| Sep-2014 | 15.5 | 45 | 5.7 |
| Feb-2017 | 14.5 | 46 | 5.5 |
| Oct-2017 | 14.3 | 35 | 4.1 |
| Mar-2018 | 13.0 | 37 | 4.0 |
| Oct-2018 | 14.3 | 62 | 7.2 |
| Mar-2019 | 13.5 | 36 | 3.9 |

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| Total Chloroethenes Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 17.09 | 28,978 | 1,833 |
| Mar-2000 | 19.57 | 33,353 | 2,415 |
| Mar-2001 | 19.58 | 24,164 | 1,751 |
| Sep-2001 | 19.73 | 22,788 | 1,664 |
| Mar-2002 | 18.84 | 25,051 | 1,746 |
| Sep-2002 | 18.82 | 42,527 | 2,962 |
| Mar-2003 | 18.71 | 38,582 | 2,671 |
| Sep-2003 | 17.46 | 15,253 | 986 |
| Mar-2004 | 17.75 | 20,171 | 1,325 |
| Sep-2004 | 17.54 | 17,368 | 1,127 |
| Mar-2005 | 19.08 | 15,998 | 1,129 |
| Sep-2005 | 19.09 | 24,502 | 1,731 |
| Mar-2006 | 15.69 | 19,476 | 1,131 |
| Sep-2006 | 15.76 | 20,244 | 1,180 |
| Mar-2007 | 17.08 | 39,671 | 2,507 |
| Sep-2007 | 16.07 | 54,835 | 3,261 |
| Mar-2008 | 15.81 | 50,317 | 2,943 |
| Sep-2008 | 16.48 | 78,961 | 4,816 |
| Mar-2009 | 15.66 | 62,972 | 3,650 |
| Sep-2009 | 16.92 | 67,211 | 4,209 |
| Mar-2010 | 15.65 | 70,363 | 4,074 |
| Sep-2010 | 16.10 | 53,607 | 3,193 |
| Sep-2012 | 15.62 | 18,551 | 1,073 |
| Sep-2014 | 15.81 | 7,440 | 435 |
| Feb-2017 | 15.82 | 8,125 | 476 |
| Oct-2017 | 15.67 | 4,923 | 286 |
| Mar-2018 | 15.41 | 5,415 | 309 |
| Oct-2018 | 15.51 | 7,804 | 448 |
| Mar-2019 | 15.53 | 6,114 | 351 |

| Ricker Method® Plume Stability Characteristics 1,1,2-TCA Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 4.81 | 8.2 | 0.32 |
| Mar-2000 | 0.00 | 5.0 | 0.00 |
| Mar-2001 | 6.46 | 13.2 | 0.70 |
| Sep-2001 | 6.96 | 16.3 | 0.93 |
| Mar-2002 | 8.60 | 64.3 | 4.51 |
| Sep-2002 | 10.94 | 30.3 | 2.70 |
| Mar-2003 | 8.62 | 118.0 | 8.30 |
| Sep-2003 | 6.66 | 19.5 | 1.06 |
| Mar-2004 | 7.19 | 23.3 | 1.36 |
| Sep-2004 | 0.00 | 5.0 | 0.00 |
| Mar-2005 | 7.75 | 17.3 | 1.10 |
| Sep-2005 | 0.00 | 5.0 | 0.00 |
| Mar-2006 | 4.87 | 16.3 | 0.65 |
| Sep-2006 | 3.24 | 8.6 | 0.23 |
| Mar-2007 | 6.79 | 46.6 | 2.58 |
| Sep-2007 | 7.20 | 98.2 | 5.77 |
| Mar-2008 | 6.69 | 67.0 | 3.66 |
| Sep-2008 | 7.44 | 200.5 | 12.18 |
| Mar-2009 | 7.99 | 241.5 | 15.75 |
| Sep-2009 | 7.96 | 224.1 | 14.54 |
| Mar-2010 | 7.43 | 195.9 | 11.88 |
| Sep-2010 | 7.37 | 176.8 | 10.63 |
| Sep-2012 | 7.36 | 125.5 | 7.53 |
| Sep-2014 | 4.33 | 15.6 | 0.55 |
| Feb-2017 | 4.47 | 16.6 | 0.61 |
| Oct-2017 | 3.14 | 11.3 | 0.29 |
| Mar-2018 | 3.22 | 11.2 | 0.30 |
| Oct-2018 | 2.76 | 11.5 | 0.26 |
| Mar-2019 | 2.51 | 11.6 | 0.24 |

| Ricker Method® Plume Stability Characteristics 1,1,1-TCA Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 4.79 | 8.1 | 0.32 |
| Mar-2000 | 7.92 | 43.3 | 2.80 |
| Mar-2001 | 7.22 | 22.1 | 1.30 |
| Sep-2001 | 0.00 | 5.0 | 0.00 |
| Mar-2002 | 8.64 | 121.5 | 8.57 |
| Sep-2002 | 8.96 | 45.9 | 3.35 |
| Mar-2003 | 8.99 | 248.5 | 18.22 |
| Sep-2003 | 7.21 | 23.5 | 1.38 |
| Mar-2004 | 7.78 | 37.8 | 2.40 |
| Sep-2004 | 0.00 | 5.0 | 0.00 |
| Mar-2005 | 6.87 | 19.0 | 1.07 |
| Sep-2005 | 0.00 | 5.0 | 0.00 |
| Mar-2006 | 4.39 | 13.2 | 0.47 |
| Sep-2006 | 3.48 | 9.7 | 0.27 |
| Mar-2007 | 6.77 | 69.9 | 3.86 |
| Sep-2007 | 7.36 | 172.1 | 10.33 |
| Mar-2008 | 7.16 | 126.3 | 7.38 |
| Sep-2008 | 7.40 | 186.4 | 11.26 |
| Mar-2009 | 8.01 | 250.1 | 16.34 |
| Sep-2009 | 7.32 | 162.2 | 9.69 |
| Mar-2010 | 7.32 | 162.2 | 9.69 |
| Sep-2010 | 7.07 | 109.8 | 6.33 |
| Sep-2012 | 8.13 | 70.7 | 4.69 |
| Sep-2014 | 2.15 | 8.2 | 0.14 |
| Feb-2017 | 2.13 | 8.1 | 0.14 |
| Oct-2017 | 1.62 | 8.0 | 0.11 |
| Mar-2018 | 1.62 | 8.0 | 0.11 |
| Oct-2018 | 1.62 | 8.0 | 0.11 |
| Mar-2019 | 1.44 | 8.1 | 0.09 |

| Ricker Method® Plume Stability Characteristics 1,2-DCA Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 3.08 | 5.79 | 0.15 |
| Mar-2000 | 0.00 | 5.00 | 0.00 |
| Mar-2001 | 1.32 | 5.88 | 0.06 |
| Sep-2001 | 2.34 | 6.59 | 0.13 |
| Mar-2002 | 6.85 | 13.57 | 0.76 |
| Sep-2002 | 4.87 | 9.30 | 0.37 |
| Mar-2003 | 5.86 | 15.39 | 0.74 |
| Sep-2003 | 3.77 | 7.78 | 0.24 |
| Mar-2004 | 0.13 | 5.22 | 0.01 |
| Sep-2004 | 0.00 | 5.00 | 0.00 |
| Mar-2005 | 1.08 | 5.67 | 0.05 |
| Sep-2005 | 0.00 | 5.00 | 0.00 |
| Mar-2006 | 1.50 | 6.76 | 0.08 |
| Sep-2006 | 1.59 | 6.84 | 0.09 |
| Mar-2007 | 3.73 | 10.46 | 0.32 |
| Sep-2007 | 3.62 | 10.09 | 0.30 |
| Mar-2008 | 3.82 | 10.76 | 0.34 |
| Sep-2008 | 0.00 | 5.00 | 0.00 |
| Mar-2009 | 0.00 | 5.00 | 0.00 |
| Sep-2009 | 0.00 | 5.00 | 0.00 |
| Mar-2010 | 0.00 | 5.00 | 0.00 |
| Sep-2010 | 0.00 | 5.00 | 0.00 |
| Sep-2012 | 3.33 | 8.98 | 0.24 |
| Sep-2014 | 2.70 | 9.27 | 0.20 |
| Feb-2017 | 3.26 | 10.79 | 0.29 |
| Oct-2017 | 2.66 | 10.75 | 0.23 |
| Mar-2018 | 2.42 | 10.82 | 0.21 |
| Oct-2018 | 2.55 | 10.78 | 0.22 |
| Mar-2019 | 2.39 | 10.84 | 0.21 |

| Ricker Method® Plume Stability Characteristics 1,1-DCA Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 7.94 | 21 | 1.37 |
| Mar-2000 | 9.87 | 45 | 3.61 |
| Mar-2001 | 9.32 | 30 | 2.30 |
| Sep-2001 | 8.53 | 21 | 1.48 |
| Mar-2002 | 8.63 | 130 | 9.14 |
| Sep-2002 | 8.67 | 184 | 13.03 |
| Mar-2003 | 8.62 | 185 | 13.02 |
| Sep-2003 | 7.12 | 30 | 1.74 |
| Mar-2004 | 11.43 | 65 | 6.03 |
| Sep-2004 | 0.00 | 5 | 0.00 |
| Mar-2005 | 8.24 | 28 | 1.91 |
| Sep-2005 | 0.00 | 5 | 0.00 |
| Mar-2006 | 6.24 | 42 | 2.12 |
| Sep-2006 | 7.26 | 31 | 1.82 |
| Mar-2007 | 10.02 | 89 | 7.28 |
| Sep-2007 | 9.08 | 151 | 11.19 |
| Mar-2008 | 7.65 | 129 | 8.08 |
| Sep-2008 | 7.52 | 232 | 14.26 |
| Mar-2009 | 7.98 | 237 | 15.45 |
| Sep-2009 | 7.97 | 233 | 15.15 |
| Mar-2010 | 9.24 | 203 | 15.26 |
| Sep-2010 | 7.52 | 232 | 14.26 |
| Sep-2012 | 7.50 | 162 | 9.89 |
| Sep-2014 | 6.31 | 57 | 2.95 |
| Feb-2017 | 7.41 | 54 | 3.26 |
| Oct-2017 | 6.85 | 36 | 2.00 |
| Mar-2018 | 8.39 | 48 | 3.27 |
| Oct-2018 | 7.47 | 63 | 3.85 |
| Mar-2019 | 6.95 | 48 | 2.71 |

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| Total Chloroethanes Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 7.90 | 314 | 9 |
| Mar-2000 | 9.82 | 721 | 26 |
| Mar-2001 | 9.27 | 516 | 18 |
| Sep-2001 | 8.49 | 337 | 11 |
| Mar-2002 | 9.24 | 2,642 | 90 |
| Sep-2002 | 11.11 | 2,007 | 83 |
| Mar-2003 | 8.94 | 4,658 | 154 |
| Sep-2003 | 7.25 | 652 | 17 |
| Mar-2004 | 11.38 | 965 | 41 |
| Sep-2004 | 0.00 | 0 | 0 |
| Mar-2005 | 8.20 | 542 | 16 |
| Sep-2005 | 0.00 | 0 | 0 |
| Mar-2006 | 6.20 | 610 | 14 |
| Sep-2006 | 7.22 | 394 | 11 |
| Mar-2007 | 9.97 | 1,546 | 57 |
| Sep-2007 | 9.04 | 3,231 | 108 |
| Mar-2008 | 7.61 | 2,719 | 77 |
| Sep-2008 | 7.48 | 5,272 | 146 |
| Mar-2009 | 7.97 | 6,140 | 181 |
| Sep-2009 | 7.93 | 5,204 | 153 |
| Mar-2010 | 9.19 | 4,236 | 144 |
| Sep-2010 | 7.48 | 4,473 | 124 |
| Sep-2012 | 8.21 | 2,914 | 89 |
| Sep-2014 | 6.26 | 728 | 17 |
| Feb-2017 | 7.36 | 692 | 19 |
| Oct-2017 | 6.80 | 462 | 12 |
| Mar-2018 | 8.33 | 564 | 17 |
| Oct-2018 | 7.42 | 727 | 20 |
| Mar-2019 | 6.89 | 571 | 15 |

| Ricker Method® Plume Stability Characteristics Toluene Upper Shallow | | | |
|---|-------------------------|---|-------------------------------------|
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 10.61 | 145.8 | 12.62 |
| Mar-2000 | 11.66 | 145.6 | 13.85 |
| Mar-2001 | 10.40 | 44.2 | 3.75 |
| Sep-2001 | 9.73 | 84.3 | 6.70 |
| Mar-2002 | 12.47 | 58.3 | 5.94 |
| Sep-2002 | 12.81 | 83.7 | 8.75 |
| Mar-2003 | 12.71 | 69.6 | 7.22 |
| Sep-2003 | 7.22 | 11.0 | 0.65 |
| Mar-2004 | 7.90 | 47.3 | 3.05 |
| Sep-2004 | 7.39 | 32.1 | 1.93 |
| Mar-2005 | 5.13 | 25.4 | 1.06 |
| Sep-2005 | 5.47 | 37.8 | 1.69 |
| Mar-2006 | 2.76 | 14.1 | 0.32 |
| Sep-2006 | 6.78 | 20.9 | 1.16 |
| Mar-2007 | 9.22 | 28.3 | 2.13 |
| Sep-2007 | 8.42 | 47.3 | 3.25 |
| Mar-2008 | 9.83 | 47.8 | 3.83 |
| Sep-2008 | 9.82 | 82.3 | 6.60 |
| Mar-2009 | 9.55 | 91.2 | 7.11 |
| Sep-2009 | 10.17 | 86.2 | 7.15 |
| Mar-2010 | 9.67 | 80.0 | 6.31 |
| Sep-2010 | 7.96 | 66.1 | 4.29 |
| Sep-2012 | 7.01 | 25.7 | 1.47 |
| Sep-2014 | 6.45 | 13.7 | 0.72 |
| Feb-2017 | 7.46 | 15.9 | 0.97 |
| Oct-2017 | 4.91 | 14.0 | 0.56 |
| Mar-2018 | 6.00 | 14.2 | 0.70 |
| Oct-2018 | 4.16 | 15.4 | 0.52 |
| Mar-2019 | 5.86 | 13.5 | 0.64 |

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| Ethylbenzene Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 14.54 | 443 | 52.6 |
| Mar-2000 | 12.79 | 266 | 27.8 |
| Mar-2001 | 12.37 | 166 | 16.8 |
| Sep-2001 | 11.95 | 153 | 14.9 |
| Mar-2002 | 15.26 | 192 | 23.9 |
| Sep-2002 | 13.19 | 354 | 38.1 |
| Mar-2003 | 13.18 | 204 | 21.9 |
| Sep-2003 | 12.04 | 66 | 6.5 |
| Mar-2004 | 7.71 | 164 | 10.3 |
| Sep-2004 | 7.69 | 108 | 6.8 |
| Mar-2005 | 8.82 | 84 | 6.1 |
| Sep-2005 | 9.71 | 111 | 8.8 |
| Mar-2006 | 5.94 | 81 | 3.9 |
| Sep-2006 | 9.77 | 83 | 6.6 |
| Mar-2007 | 10.46 | 161 | 13.7 |
| Sep-2007 | 9.77 | 192 | 15.3 |
| Mar-2008 | 10.90 | 198 | 17.6 |
| Sep-2008 | 10.58 | 267 | 23.1 |
| Mar-2009 | 10.90 | 276 | 24.5 |
| Sep-2009 | 11.01 | 296 | 26.6 |
| Mar-2010 | 10.98 | 342 | 30.6 |
| Sep-2010 | 10.30 | 180 | 15.1 |
| Sep-2012 | 8.71 | 28 | 2.0 |
| Sep-2014 | 9.24 | 25 | 1.9 |
| Feb-2017 | 9.47 | 24 | 1.9 |
| Oct-2017 | 6.93 | 15 | 0.8 |
| Mar-2018 | 7.22 | 24 | 1.4 |
| Oct-2018 | 8.80 | 36 | 2.6 |
| Mar-2019 | 8.08 | 26 | 1.7 |

| Ricker Method® Plume Stability Characteristics | | | |
|---|-------------------------|---|-------------------------------------|
| Xylene Upper Shallow | | | |
| Event | Area (acres) | Average Concentration (µg/L) | Mass Indicator (lbs) |
| Sep-1999 | 14.92 | 2,026 | 246.6 |
| Mar-2000 | 13.41 | 986 | 107.9 |
| Mar-2001 | 13.30 | 554 | 60.1 |
| Sep-2001 | 13.22 | 451 | 48.6 |
| Mar-2002 | 16.16 | 739 | 97.5 |
| Sep-2002 | 13.99 | 1,418 | 161.9 |
| Mar-2003 | 13.53 | 726 | 80.2 |
| Sep-2003 | 13.03 | 237 | 25.2 |
| Mar-2004 | 11.84 | 481 | 46.4 |
| Sep-2004 | 8.41 | 341 | 23.4 |
| Mar-2005 | 13.71 | 262 | 29.3 |
| Sep-2005 | 13.92 | 382 | 43.4 |
| Mar-2006 | 10.18 | 224 | 18.6 |
| Sep-2006 | 11.17 | 289 | 26.3 |
| Mar-2007 | 11.58 | 635 | 60.0 |
| Sep-2007 | 9.65 | 559 | 44.0 |
| Mar-2008 | 11.38 | 699 | 64.9 |
| Sep-2008 | 11.31 | 880 | 81.2 |
| Mar-2009 | 11.35 | 902 | 83.5 |
| Sep-2009 | 11.45 | 1,050 | 98.0 |
| Mar-2010 | 11.43 | 1,264 | 117.9 |
| Sep-2010 | 10.90 | 602 | 53.5 |
| Sep-2012 | 11.61 | 202 | 19.2 |
| Sep-2014 | 10.98 | 68 | 6.1 |
| Feb-2017 | 10.80 | 65 | 5.7 |
| Oct-2017 | 8.87 | 34 | 2.4 |
| Mar-2018 | 9.34 | 53 | 4.0 |
| Oct-2018 | 9.84 | 95 | 7.6 |
| Mar-2019 | 10.44 | 71 | 6.1 |

Appendix G

Groundwater Plume Analytics® Presentation.pptx

(on disc)