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QUARTERLY GROUNDWATER MONITORING PROGRESS REPORT – OCTOBER 2103

FOR

R.D. PATE ESTATE

101 East Main Street
Pikeville, Wayne County, North Carolina

SITE ID: NONCD0002795

Latitude: 35° 29' 51.46" North Longitude: 77° 58' 59.91" West

November 13, 2013

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R.D. Pate Estate
101 East Main Street
Pikeville, Wayne County, North Carolina
EA Site No. 07-7019.9 IHSB SITE ID: NONCD0002795
November 13, 2013

1.0 INTRODUCTION

The Remedial Action Plan (RAP), dated May 7, 2013, approved and implemented at the site (**Figure 1**) includes natural attenuation monitoring (MNA) to remediate the chlorinated solvent-contaminated soil and groundwater at the site. It is anticipated that biodegradation of chlorinated solvents will result in a reduction of volatile organic compounds (VOC) concentrations to below the 15A NCAC 2L Standards and inhibit downgradient migration of contaminants.

The purpose and objectives of the MNA remediation strategy is to reduce and/or monitor the contaminant concentration of the dissolved VOC constituents in the groundwater and prevent the groundwater contaminant plume from migrating further off-site and affecting any nearby receptors (i.e., water supply wells and creeks). The target clean-up concentrations/objectives for the groundwater are the remediation goals in the Guidance document, which are the same as the current version of NCDENR 15A NCAC 2L Ground Water Quality Standards (NCAC 2L Groundwater Standards). The NCAC 2L Groundwater Standards are listed in **Table 4**.

The most recent quarterly monitoring event occurred on October 8 and 9, 2013. In summary, laboratory analysis for the October 2013 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fifteen (15) of the groundwater samples (MW-1, MW-2, MW-5 through MW-13, MW-18, MW-20, MW-21 and MW-1X) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, and MW-5 through MW-13).

The concentrations of chlorinated solvents detected in the groundwater monitoring wells during the October 2013 sampling event indicated an overall decrease in total concentrations compared to the last sampling event in March 2013. Several wells exhibited increasing and decreasing fluctuations of specific solvent concentrations, however, they were slight fluctuations and appear to be related to seasonal fluctuations and not indicative of long term trends. The extent of the groundwater contamination continues to be reasonably defined. The highest concentrations of 1,1,2,2-TCA and TCE were detected in groundwater monitoring well MW-18 (closer to the original source area) during the October 2013 sampling event compared to MW-11 during the 2011 and 2013 sampling events. The sample from MW-18 indicated a slight increase in concentrations of both 1,1,2,2-TCA and TCE during the October 2013 sampling event compared the March 2013 sampling event. However, the recent concentrations detected in MW-18 were less compared to concentrations in MW-11 from the previous March 2013 and historical events.

Information collected during the recent October 2013 Quarterly Groundwater Monitoring event revealed a general decrease (or no change in historical non-detects) in concentrations of chlorinated solvent constituents <u>and</u> total VOCs in groundwater samples MW-1 through MW-17, MW-19, MW-20 and MW-22 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a general increase in concentrations of chlorinated solvent constituents <u>and</u> total VOCs in groundwater samples MW-18 and MW-21.

As discussed below, the results of the most recent sampling event (October 2013) continue to support the conclusions stated in the previous RI and RAP reports:

- Based on the historical and recent October 2013 groundwater sampling results, several on-site and off-site monitoring wells continue to exhibit chlorinated solvent concentrations that exceed 15A NCAC 2L Groundwater Standards. However, the lateral and vertical extent of the solvent-related groundwater contaminant plume continues to be reasonably defined by several non-detect sentinel monitoring wells upgradient (MW-7* and MW-14), cross-gradient (MW-3, MW-15 and MW-17), and downgradient (MW-16, MW1X and MW-19 through MW-22). *The groundwater sample from MW-7 revealed 1,1,2,2-TCA slightly above the 2L Groundwater Standards in October 2013. This slight increase may be attributed to seasonal/temporal water table fluctuations and laboratory method detection limits. MW-7 will continue to function and be monitored as a sentinel well.

- The horizontal migration of solvent (and petroleum) contaminants appears to be primarily influenced by the direction of groundwater flow along with seasonal and temporal fluctuations. The vertical migration of solvent contaminants appears to be primarily influenced and limited by the clay confining unit to less than 50 feet below grade as evidenced by current and historical non-detects in vertical extent well DW-2, located downgradient and/or within the source area wells (MW-1, MW-11, MW-12, MW-13,and MW-18). Underground utility pathways along SE Railroad Street may also be influencing contaminant migration to the south near MW-6.

- The solvent constituents (TCE, 1,1,2,2- Tetrachloroethane, 1,1,2-TCA, PCE, cis-1,2-Dichloroethene and vinyl chloride) continue to be detected at varying levels in the groundwater in several of the monitoring wells in October 2013; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation continues to occur in the aquifer.

- Based on the nature of the contaminants, the hydrogeologic properties of the site, and the nature and distance of the nearby receptors, it does not appear that the current contaminant plume has impacted the nearby surface water receptors or water supply wells.

- Since MNA met the remedial objectives of the RAP and recent groundwater chemistry data for October 2013 indicate that anaerobic biodegradation continues to occur at the site, it remains supportable as the groundwater remedy for the Site.

2.0 QUARTERLY REMEDIATION MONITORING ACTIVITIES

On October 8 and 9, 2013, groundwater samples were collected from on-site and off-site monitoring wells MW-1 through MW-22, DW-2 and monitoring well MW-1X (arbitrarily named by EA) The monitoring wells were purged and sampled using low flow sampling techniques using a peristaltic pump and new, clean, dedicated teflon tubing inserted into the wells. Prior to purging, the depth to water level reading was taken from the top of casing of each well with a static water level meter. The well construction and water table data are provided in **Table 1**

Prior to collecting groundwater quality samples, field measurements were obtained utilizing portable electronic equipment to monitor natural attenuation progress including: pH, specific conductivity, temperature, dissolved oxygen (DO), oxygen reduction potential (ORP), and turbidity were monitored and

recorded at five-minute intervals. The field data readings are presented in the Field Parameters Measurements Table (**Table 2**). Once field readings stabilized for three (3) consecutive readings/intervals, groundwater samples were collected for laboratory analysis. The groundwater samples were collected using new gloves, placed into laboratory-prepared containers (some with preservatives), labeled with identifying numbers and sample information, placed into coolers containing ice, and then transported to Pace Analytical in Huntersville, North Carolina for analysis of VOCs by EPA Method 8260. Quality control and quality assurance samples were collected and analyzed for similar constituents. Chain-of-custody forms were maintained with the samples.

Groundwater samples collected from monitoring wells MW-1, MW-6, MW-7, MW-12 and MW-22 were also analyzed for geochemical natural attenuation parameters (alkalinity, chloride, ethane/ethene, ferrous iron – Fe2+, methane, nitrate, sulfate, sulfide, total organic carbon (TOC). Laboratory results are summarized in the Geochemical/Natural Attenuation Parameters Table (**Table 3)** and results are discussed below.

Current and historical groundwater analytical results are presented in **Table 4** and analytical results for October 2013 are depicted on **Figure 2**. Groundwater Isoconcentration Maps - October 2013 are included as **Figures 3**, **4** and **5**. A groundwater Potentiometric Contour Map – October 2013 is included as **Figure 6.** Copies of the field data sheets are included in **Appendix B**. Copies of the laboratory analytical reports and chain of custodies are included in **Appendix D**.

2.1 Hydrogeologic Evaluation

Field personnel performed activities to determine the groundwater flow direction, hydraulic gradient and velocity at the subject Site. On October 8, 2013, field personnel measured the depth to groundwater levels in all 24 monitoring wells. The depth to water in all wells (except deep well DW-2) ranged from 2.75 feet bgs (MW-9) to 6.69 feet bgs (MW-7). The depth to water during the October 2013 event was from 1-3 feet deeper compared to the March 2013 event and likely reflects typical seasonal fluctuations due to varying annual precipitation rates.

Using the water table depths, EA then calculated the relative water table elevations at each well point. The casing and water table data are provided on **Table 1**. As shown on the Potentiometric Contour Map (**Figure 6)** the generalized direction of shallow groundwater flow at the Site is generally to the southwest overall and similar to historical data. However, groundwater elevation data for October 2013 indicate potential subdued mounding conditions in the immediate area of the Site likely attributed to seasonal/temporal water table fluctuations.

Based on the potentiometric map for the October 8, 2013 event, shallow groundwater flow beneath the Site is generally towards the southwest overall with an average hydraulic gradient of 0.011 feet/foot. Hydraulic gradients ranged from 0.005 ft/ft to 0.016 ft/ft across Site and vicinity. In addition, separate localized or temporal groundwater flow components may exist to the north and southeast. Seasonal variables, the underlying slope, subsurface variations of the permeable sand/clay unit interface, and slow recharge rates for several wells may also locally influence shallow groundwater flow characteristics. From the water-level data obtained on October 8, 2013 and information in **Table 1**, the vertical gradients in the vicinity of deep well DW-2 along with shallow wells MW-2, MW-3 and MW-18 represents a downward flow direction which is consistent with previous events. Historical groundwater elevation data is also presented in **Table 1**.

2.2 Quarterly Remediation Monitoring Results

In summary, laboratory analysis for the October 2013 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fifteen (15) of the groundwater samples (MW-1, MW-2, MW-5 through MW-13, MW-18, MW-20, MW-21 and MW-1X) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, and MW-5 through MW-13).

During the latest groundwater sampling event in October 2013, chlorinated solvent constituents 1,1,2,2,-Tetrachloroethane (1,1,2,2-TCA), trichloroethene (TCE), 1,1,2-Trichloroethane (1,1,2-TCA), Tetrachloroethane (PCE) and Vinyl Chloride were detected in the groundwater in several monitoring wells at concentrations exceeding their respective NCAC 2L Groundwater Standards as summarized below:

Concentrations of 1,1,2,2-TCA exceeding the NCAC 2L Groundwater Standard of 0.2 ug/L ranged from 0.56J ug/L in MW-7 to 117 ug/L in MW-18 during the October 2013 groundwater sampling event. Groundwater samples collected from monitoring wells MW-1(21.1 ug/L), MW-5(1.9 ug/L), MW-6(0.76J), MW-8 (2.6 ug/L), MW-9(7.3 ug/L), MW-10(8.9 ug/L), MW-11(101 ug/L), MW-12(23.6 ug/L), and MW-13(91.3 ug/L) also revealed concentrations of 1,1,2,2-TCA exceeding the 0.2 ug/L NCAC 2L Groundwater Standard for 1,1,2,2-TCA.

Concentrations of TCE exceeding the NCAC 2L Groundwater Standard of 3.0 ug/L ranged from 7.9 ug/L in MW-1 to 24.1 ug/L in MW-11. Groundwater samples collected from MW-12(21.1 ug/L), MW-13(11.8 ug/L) and MW-18(23.4 ug/L) also revealed concentrations of TCE exceeding the 3.0 ug/L NCAC 2L Groundwater Standard for TCE.

Concentrations of 1,1,2-TCA exceeding the NCAC 2L Groundwater Standard of 0.6 ug/L were detected in groundwater samples MW-11 (0.94J ug/L), MW-12(0.67J ug/L), MW-13 (0.92J ug/L) and MW-18 (1.1 ug/L).

Concentrations of PCE exceeding the NCAC 2L Groundwater Standard of 0.7 ug/L were detected in one groundwater sample MW-18 (0.96J ug/L).

Concentrations of Vinyl Chloride exceeding the NCAC 2L Groundwater Standard of 0.03 ug/L were detected in one groundwater sample MW-12 (7.8 ug/L).

Concentrations of cis-1,2-Dichloroethene (cis-1,2-DCE) continue to be detected in several groundwater samples (MW-1, MW-2, MW-6, MW-11, MW-12, MW-13 and MW-18), however they do not exceed the NCAC 2L Groundwater Standard of 70 ug/L. The cis-1,2-DCE concentrations ranged from 0.27 J ug/L in MW-1 and MW-6 to 21 ug/L in MW-12.

The “J” values indicate a concentration detected above the laboratory method detection limit but below the laboratory reporting limit.

Concentrations of one or more petroleum constituents exceeding their respective NCAC 2L Groundwater Standards were detected in groundwater samples MW-2, MW-6, MW-12, MW-18, MW-20, MW-21 and MW-1X. Concentrations of Benzene exceeding the NCAC 2L Groundwater Standard of 1.0 ug/L were detected

in groundwater samples MW-2 (735 ug/L) and MW-12 (44 ug/L). Concentrations of Naphthalene exceeding the NCAC 2L Groundwater Standard of 6 ug/L were detected in groundwater samples MW-2 (395 ug/L), MW-6 (16.3 ug/L), MW-1X (7.8 ug/L) and MW-20 (520 ug/L). Concentrations of tert-Butyl Alcohol exceeding the NCAC 2L Groundwater Standard of 10 ug/L were detected in groundwater samples MW-6 (49.4J ug/L), MW-12 (46.2J ug/L), MW-18 (45.6J ug/L), MW-20 (255 ug/L) and MW-21 (45.6 ug/L). In addition, groundwater sample MW-2 revealed Ethylbenzene (643 ug/L), Methylene Chloride (37.4 ug/L) and 1,2,4-Trimethylbenzene (490 ug/L) exceeding the NCAC 2L Groundwater Standards of 600 ug/L, 5 ug/L and 400 ug/L, respectively.

Groundwater sample MW-1X revealed Naphthalene exceeding the respective NCAC 2L Groundwater Standard (and additional petroleum constituents); however the constituents detected in groundwater sample MW-1X appear to be associated with former petroleum release incident # 5738 near the former Pikeville Medical Supply property.

Groundwater sample MW-20 revealed Naphthalene and tert-Butyl Alcohol exceeding their respective NCAC 2L Groundwater Standards (and additional petroleum constituents); however, the concentrations detected in groundwater sample MW-20 appear to be associated with a petroleum release from an existing UST in the concrete sidewalk and asphalt roadway (Northwest Railroad Street) to the east of the Howell Brothers Grocery property at 101 West Main Street. The UST was discovered during the installation of groundwater monitoring well MW-20 in March 2013 and is being addressed separately by the UST Section.

Laboratory analysis of groundwater samples MW-3, MW-4, DW-2, MW-14 through MW-17, MW-19 and MW-22 did not reveal concentrations of target analytes exceeding NCAC 2L Groundwater Standards. Duplicate groundwater samples from MW-13 and MW-16 revealed constituent concentrations that were similar to the actual groundwater sample. Quality control and quality assurance trip blank, field blanks and rinseate blank samples (TB-1, TB-2, RB-1, RB-2, FB-1 and FB-2) did not reveal detectable concentrations of target analytes.

Based on the historical and recent October 2013 groundwater sampling results, several on-site and off-site monitoring wells exhibit chlorinated solvent concentrations that exceeded 15A NCAC 2L Groundwater Standards. Based on sampling results, Groundwater Potentiometric and Isoconcentration Maps, the lateral and vertical extent of the solvent-related groundwater contaminant plume remains reasonably defined by several non-detect sentinel monitoring wells upgradient (MW-7 andMW-14), cross-gradient (MW-3, MW-15 and MW-17), and downgradient (MW-16, MW1X and MW-19 through MW-22). *The groundwater sample from MW-7 revealed 1,1,2,2-TCA slightly above the 2L Groundwater Standards in October 2013. This slight increase may be attributed to seasonal water table fluctuations and laboratory method detection limits. MW-7 will continue to function and be monitored as a sentinel well.

The horizontal migration of solvent (and petroleum) contaminants appears to be primarily influenced by the direction of groundwater flow along with seasonal and temporal fluctuations. The vertical migration of solvent contaminants appears to be primarily influenced and limited by the clay confining unit to less than 50 feet below grade as evidenced by current and historical non-detects in vertical extent well DW-2, located downgradient and/or within the source area wells (MW-1, MW-11, MW-12, MW-13,and MW-18). Underground utility pathways along SE Railroad Street may also be influencing contaminant migration to the south near MW-6.

Graphs of contaminant Concentration vs Time for several key monitoring wells are included in **Appendix C**.

The graphs depict key detected contaminants, sampling dates and trends. The graphs for monitoring wells with early historical data (MW-1 through MW-7) generally show an overall decline over time to date for most contaminants of concern. Graphs for monitoring wells with less historical data (MW-8 through MW-13) show decreasing and increasing trends over time to date for several contaminants of concern. Graphs for monitoring wells with limited historical data (MW-14 through MW-22) show decreasing and increasing values over time to date for several contaminants of concern, however, additional data points are required to determine actual long term trends.

Based on the laboratory analytical results of groundwater monitoring for October 2013, constituent plume maps for 1,1,2,2-Tetrachloroethane, TCE, and total VOCs in groundwater were prepared (see **Figures 3 through 5**). As shown on the current and historical maps, the horizontal extent of VOCs detected in the groundwater is reasonably defined. The vertical extent of VOCs in the groundwater appears to be reasonably defined by Type III vertical extent monitoring well DW-2 to less than 50 feet (casing depth) and no VOC concentrations have been historically detected in this well to date.

3.0 EFFECTIVENESS OF REMEDIATION

3.1 Summary and Update of Groundwater Modeling

The purpose and objective of the Monitored Natural Attenuation (MNA) remediation strategy is to reduce and/or monitor the contaminant concentration of contamination in the dissolved VOC constituents in the groundwater and prevent the groundwater contaminant plume from migrating further off-site and affecting any nearby receptors (i.e., water supply wells and creeks). The target clean-up concentrations/objectives for the groundwater are the remediation goals in the Guidance document, which are the same as the current version of NCDENR 15A NCAC 2L Ground Water Quality Standards (NCAC 2L Groundwater Standards). The NCAC 2L Groundwater Standards are listed in **Table 4**.

BIOCHLOR and SourceDK models were used in the RAP to evaluate wells MW-1, MW-11, and MW-12 because these wells these wells have been sampled several times and they indicated a decreasing concentration trend over the last few sampling events. The degradation of 1,1,2,2-TCA and TCE was modeled for these three wells. The 1,1,2,2-TCA concentration in the wells was predicted to achieve the North Carolina groundwater standard of 0.2 ug/l in seven to 18 years (2020 to 2031). The TCE concentrations in the wells were predicted to achieve the North Carolina groundwater standard of 3 ug/L in five to seven years (2018 to 2020); the concentration of TCE in sampling events in 2008 and 2011 were below the standard.

Based on the outputs of the BIOCHLOR and Source DK models, the concentrations of 1,1,2,2-TCA and TCE appear to be decreasing at a rate which indicates some diminution processes are at work in some of the wells. Daughter products (TCE, cis-1,2-DCE, 1,1,2-TCA, and vinyl chloride) which are produced as a result of either abiotic or microbial-mediated degradation were detected along the centerline of the plume in several wells. The petroleum constituents (BTEX) detected in many of the wells at or near the sources may provide a source of carbon to be used as energy for microbes, thereby allowing reductive dechlorination to take place in the wells. It is also possible that the historical fluctuation but overall decrease in 1,1,2,2-TCA, PCE, and TCE in the main portion of the plume is a result of dilution and dispersion.

3.2 Hydrogeologic and Geochemical Data Parameters

The BIOCHLOR program includes a Natural Attenuation Screening Protocol, based on the USEPA *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater* (USEPA 1998). The screening protocol evaluates the evidence of anaerobic biodegradation. Table 2.3 of the USEPA technical protocol (USEPA 1998) indicates the parameters which should be evaluated in order to determine if anaerobic biodegradation is likely to occur. A subset of that table including those parameters applicable to determining if reductive dechlorination will occur at the Site is provided in **Appendix A**. The analytical parameters from the screening protocol which have been evaluated at the Site are provided in a table in **Appendix A** which provides a qualitative evaluation of whether analytical results predict a condition which would support anaerobic biodegradation.

In March 2013 (initially) and October 2013 (recently), field personnel collected field data and analyzed several monitoring wells for degradation parameters. As shown in **Table 2** and **Table 3** and in the tables in **Appendix A**, several of the parameters analyzed were generally within the recommended range for natural attenuation throughout the site groundwater for both events:

- pH
- ORP
- Ferrous Iron
- Nitrate
- Sulfate
- Methane

In addition, degradation products (TCE, 1,1,2-trichloroethane, cis 1,2-DCE, and vinyl chloride) were detected in several of the monitoring wells in March and October 2013.

The screening protocol assigns a point value for each parameter based on the results. The total point value can be interpreted as follows:

- 0 – 5 Inadequate evidence of anaerobic biodegradation
- 6 – 14 Limited evidence of anaerobic biodegradation
- 15 – 20 Adequate evidence of anaerobic biodegradation
- >20 Strong evidence of anaerobic biodegradation

The tables in **Appendix A** presents the preliminary and recent screening results. Based on the initial March 2013 data collected**,** the site score in various areas across the contaminant plume varied from 3 to 21 and the well in the middle of the contaminant plume (MW-12) scored a 21 indicating that **there is evidence of anaerobic biodegradation at the subject site.** Based on the recent October 2013 data collected**,** the site score in various areas across the contaminant plume varied from 1 to 24 and the well in the middle of the contaminant plume (MW-12) scored 24 indicating that **there continues to be limited to strong evidence of anaerobic biodegradation activity at the subject site.**

Based on the initial and recent current datasets, there is adequate evidence to defensibly support that anaerobic biodegradation is occurring naturally at the site. Also, the presence of PCE and 1,1,2,2-

tetrachloroethane degradation daughter products in several other monitoring wells indicates that enhanced biodegradation continues to be a viable technology for reducing contaminant concentrations.

Summary

Based on the information presented above, MNA continues to meet the remedial objectives for the Site as follows:

- Source Control – The contaminant sources were removed and additional contaminated soil will be removed. The BIOCHLOR modeling indicated a reduction over time, and the groundwater plume has not migrated, therefore, the secondary source is under control.
- Protection of Human Health - Current concentrations of 1,1,2,2-tetrachloroethane, TCE and VC exceed the risk-based screening levels off-site and extend onto commercial properties. The SourceDK model indicated that the chlorinated solvent concentrations in some wells would not decrease to the level protective of human health for up to approximately 20 years. However, there are no water supply wells in use for potable water in the immediate area. The nearest well in use is located 1,100 feet to the northeast (upgradient) of the source area. The nearest surface water feature is located 1,500 feet southeast of the source area. Based on site conditions, contaminant migration will not result in a violation of applicable surface water or groundwater standards at existing or foreseeable receptors.
- Protection of Groundwater - Off-site groundwater concentrations to the south-southeast currently exceed the North Carolina standards, however, the contaminant concentrations appear to be decreasing overall in some wells and the groundwater is not used in the area. Based on the recent sampling event and initial modeling, contaminants have the capacity to degrade or attenuate under current site conditions. Also, based on the modeling and apparent lack of plume movement, the time and direction of contaminant travel can be predicted with reasonable certainty.
- Protection of Surface Water – There are no surface water features within 1,500 feet of the source area. Based on site conditions and modeling, the contaminant plume is not expected to intercept surface waters and the groundwater discharge will not possess contaminant concentrations that would result in violations of standards for surface waters contained in 15A NCAC 2B .0200.

The solvent constituents (TCE, 1,1,2,2- Tetrachloroethane, 1,1,2-TCA, PCE, cis-1,2-Dichloroethene and vinyl chloride) continue to be detected at varying levels in the groundwater in several of the monitoring wells in October 2013; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation continues to occur in the aquifer.

Since MNA met the remedial objectives of the RAP and recent groundwater chemistry data for October 2013 indicate that anaerobic biodegradation continues to occur at the site, it remains supportable as the groundwater remedy for the Site.

4.0 TECHNICAL METHODS, QUALITY ASSURANCE/QUALITY CONTROL, HEALTH AND SAFETY

Field sample collection techniques and procedures were conducted in general accordance with those described

in the Field Sampling and Analysis Plan (FSAP) and analytical information and information concerning the QA/QC process are included in the Quality Assurance Site Plan (QAPP), both previously prepared for implementation as part of the original *Remedial Investigation WorkPlan* dated March 31, 2010 and *Remedial Investigation WorkPlan- Addendum dated June 11, 2012*.

The procedures for sample collection, preservation, handling, chain of custody, field-equipment operation, decontamination and preventive maintenance were conducted in general accordance with the USEPA, Region IV, Science and Ecosystem Support Division (SESD) *Field Branches Quality System and Technical Procedures* (FBQSTP). The FBQSTP supersedes the *Environmental Investigations Standard Operating Procedures and Quality Assurance Manual* (EISOPQAM), dated November 2001. The most recent version of the FBQSTP is located at www.epa.gov/region4/sesd/fbqstp. Additionally, the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch (IHSB), Inactive Hazardous Site Program *Guidelines for Assessment and Cleanup*, dated August 2011, were followed.

A Site-Specific Health and Safety Plan (HASP) was previously been prepared as part of implementation of the original WorkPlan dated March 31, 2010. The HASP procedures were adhered to during the Remedial Investigation and subsequent field and sampling activities in order eliminate or minimize job hazards to Site workers and the surrounding community.

4.1 Investigation Derived Waste

Investigation derived waste includes purge water generated from the groundwater sampling events. Purge water is containerized in 55 gallon steel drums and stored at the Site for future disposal. The drum contents of purge water were previously determined to be non-hazardous material.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the most recent October 2013 sampling event continue to support the conclusions stated in the previous RI and RAP reports:

- The most recent quarterly monitoring event occurred on October 8 and 9, 2013. In summary, laboratory analysis for the October 2013 sampling event revealed concentrations of VOC target analytes exceeding NCAC 2L Groundwater Standards in fifteen (15) of the groundwater samples (MW-1, MW-2, MW-5 through MW-13, MW-18, MW-20, MW-21 and MW-1X) collected. Concentrations of chlorinated solvent constituents exceeding NCAC 2L Groundwater Standards were identified in ten (10) groundwater samples (MW-1, and MW-5 through MW-13).

- The concentrations of chlorinated solvents detected in the groundwater monitoring wells during the October 2013 sampling event indicated an overall decrease in total concentrations compared to the last sampling event in March 2013. Several wells exhibited increasing and decreasing fluctuations of specific solvent concentrations, however, they were slight fluctuations and appear to be related to seasonal fluctuations and not indicative of long term trends. The extent of the groundwater contamination continues to be reasonably defined. The highest concentrations of 1,1,2,2-TCA and TCE were detected in groundwater monitoring well MW-18 (closer to the original source area) during the

October 2013 sampling event compared to MW-11 during the 2011 and 2013 sampling events. The sample from MW-18 indicated a slight increase in concentrations of both 1,1,2,2-TCA and TCE during the October 2013 sampling event compared the March 2013 sampling event. However, the recent concentrations detected in MW-18 were less compared to concentrations in MW-11 from the previous March 2013 and historical events.

- Information collected during the recent October 2013 Quarterly Groundwater Monitoring event revealed a general decrease (or no change in historical non-detects) in concentrations of chlorinated solvent constituents and total VOCs in groundwater samples MW-1 through MW-17, MW-19, MW-20 and MW-22 compared to the previous groundwater sampling event and/or historical data. Laboratory analysis revealed a general increase in concentrations of chlorinated solvent constituents and total VOCs in groundwater samples MW-18 and MW-21.

- Based on the historical and recent October 2013 groundwater sampling results, several on-site and off-site monitoring wells continue to exhibit chlorinated solvent concentrations that exceed 15A NCAC 2L Groundwater Standards. However, the lateral and vertical extent of the solvent-related groundwater contaminant plume continues to be reasonably defined by several non-detect sentinel monitoring wells upgradient (MW-7* and MW-14), cross-gradient (MW-3, MW-15 and MW-17), and downgradient (MW-16, MW1X and MW-19 through MW-22). *The groundwater sample from MW-7 revealed 1,1,2,2-TCA slightly above the 2L Groundwater Standards in October 2013. This slight increase may to be attributed to seasonal water table fluctuations and laboratory method detection limits. MW-7 will continue to function and be monitored as a sentinel well.

- The solvent constituents (TCE, 1,1,2,2- Tetrachloroethane, 1,1,2-TCA, PCE and vinyl chloride) were detected in the groundwater in several of the monitoring wells; these constituents are a combination of primary solvents and degradation products and their presence (in addition to the petroleum constituents) in the source area, fringe and downgradient of the contaminant plume appears to indicate that bioremediation/natural degradation is occurring in the aquifer.

- Based on the nature of the contaminants, the hydrogeologic properties of the site, and the nature and distance of the nearby receptors, it does not appear that the current contaminant plume has impacted the nearby surface water receptors or water supply wells.

No additional assessment of the contaminant plume is recommended at this time. If future groundwater sampling events indicate that the constituent concentrations are increasing in perimeter and/or deeper wells, then we recommend installing additional monitoring wells to further define the contaminant plume.

The next quarterly groundwater monitoring event and evaluation of natural attenuation is scheduled for January 2014.

6.0 CERTIFICATIONS

For Remediating Party and REC certification statements, please review the following pages.

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2

IHSB SITE NAME R.D. Pate Estate

DATE & NAME OF DOCUMENT Quarterly Groundwater Monitoring Report - October 2013 November 2013

TYPE OF SUBMITTAL (circle all that apply) Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Branch Banking and Trust Company, Trustee
Ever Owens, Vice President, Personal Trust Specialist
Name of Remediating Party

Signature of Remediating Party 11.14.2013
Date

NOTARIZATION

North Carolina (Enter State)

Wake **COUNTY**

I, Megan Karlock, a Notary Public of said County and State, do hereby certify that Ever Owens did personally appear and sign before me this day, produced proper identification in the form of personally known, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 14 day of November, 2013.

Notary Public (signature)

(OFFICIAL SEAL)

MEGAN KARLOCK NOTARY PUBLIC DURHAM COUNTY, NC

My commission expires: 9.17.14.

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME R.D. Pate Estate
DATE & NAME OF DOCUMENT Quarterly Groundwater Monitoring Report - Oct 2013 November 2013
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement; Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

GARY K. SAWYER
Name of Registered Site Manager

Signature of Registered Site Manager

11-15-2013
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

GARY K. SAWYER
Name of Registered Site Manager

Signature of Registered Site Manager

11-15-2013
Date

NOTARIZATION

North Carolina (Enter State)

UNION COUNTY

I, Addie J. Wynn, a Notary Public of said County and State, do hereby certify that Gary K. Sawyer did personally appear and sign before me this day, produced proper identification in the form of N.C. drivers License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 15th day of November, 2013.

(OFFICIAL SEAL)

Notary Public (signature)

My commission expires: November 08, 2015

ADDIE J. WYNN NOTARY PUBLIC UNION COUNTY, NC

Document Certification Form No. DC - II
(Revised 8/11)

TABLES

TABLE 1

MONITORING WELL CONSTRUCTION/WATER LEVEL INFORMATION
R.D. PATE ESTATE
IHSB Site ID NUMBER: NONCD0002795
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS - PROJECT NO. 07-7019.9

Well I.D.	Installation Date	Well Inner Diameter (in.)	Total Well Depth (ft., bgs)	Screened Interval (ft., bgs)	Top of Casing Relative Elevation (ft.)	DTW 9/11/07 (ft., TOC)	Relative Water Table Elevation (ft.) 9/11/2007	DTW 4/5/2011 (ft., TOC)	Relative Water Table Elevation (ft.) 4/5/2011	DTW 2/19/2013 (ft., TOC)	Relative Water Table Elevation (ft.) 2/19/2013	DTW 3/18/2013 (ft., TOC)	Relative Water Table Elevation (ft.) 3/18/2013	DTW 10/8/2013 (ft., TOC)	Relative Water Table Elevation (ft.) 10/8/2013
MW-1	9/5/2007	2	14	4 to 14	136.15	6.59	129.56	3.70	132.45	3.34	132.81	3.44	132.71	5.84	130.31
MW-2	9/5/2007	2	14	4 to 14	135.45	5.88	129.57	3.50	131.95	nm	nm	3.16	132.29	5.08	130.37
MW-3	9/5/2007	2	14	4 to 14	135.70	6.10	129.60	3.89	131.81	3.22	132.48	2.82	132.88	5.26	130.44
MW-4	9/5/2007	2	14	4 to 14	135.75	5.70	130.05	2.43	133.32	nm	nm	2.00	133.75	5.42	130.33
MW-5	6/3/2008	1	14	4 to 14	136.30	na	na	3.85	132.45	nm	nm	3.38	132.92	6.11	130.19
MW-6	6/3/2008	1	14	4 to 14	135.16	na	na	3.94	131.22	3.93	131.23	4.22	130.94	5.03	130.13
MW-7	7/15/2008	2	15	5 to 15	136.76	na	na	4.13	132.63	3.59	133.17	3.79	132.97	6.69	130.07
MW-8	3/30/2011	1	28	18 to 28	135.81	na	na	19.15	116.66	4.25	131.56	9.61	126.20	3.48	132.33
MW-9	3/30/2011	1	28	18 to 28	136.60	na	na	14.43	122.17	4.92	131.68	8.37	128.23	2.75	133.85
MW-10	3/30/2011	1	28	18 to 28	136.45	na	na	21.54	114.91	nm	nm	12.45	124.00	2.93	133.52
MW-11	3/31/2011	1	28	18 to 28	136.26	na	na	10.51	125.75	4.32	131.94	5.05	131.21	4.37	131.89
MW-12	3/31/2011	1	15	5 to 15	136.20	na	na	4.56	131.64	4.21	131.99	4.39	131.81	5.86	130.34
MW-13	3/31/2011	1	28	18 to 28	136.38	na	na	18.66	117.72	nm	nm	10.58	125.80	3.91	132.47
MW-14	3/15/2013	1	15	5 to 15	136.35	na	na	na	na	na	na	3.36	132.99	6.29	130.06
MW-15	3/15/2013	1	15	5 to 15	135.66	na	na	na	na	na	na	3.51	132.15	5.03	130.63
MW-16	3/15/2013	1	15	5 to 15	134.82	na	na	na	na	na	na	3.89	130.93	4.29	130.53
MW-17	3/15/2013	1	15	5 to 15	136.54	na	na	na	na	na	na	3.89	132.65	6.30	130.24
MW-18	3/16/2013	1	15	5 to 15	136.17	na	na	na	na	na	na	5.44	130.73	4.97	131.20
MW-19	3/16/2013	1	15	5 to 15	135.46	na	na	na	na	na	na	10.52	124.94	3.79	131.67
MW-20	3/16/2013	1	15	5 to 15	135.31	na	na	na	na	na	na	3.65	131.66	4.16	131.15
MW-21	3/16/2013	1	15	5 to 15	135.20	na	na	na	na	na	na	4.50	130.70	5.02	130.18
MW-22	3/16/2013	1	15	5 to 15	134.96	na	na	na	na	na	na	5.30	129.66	5.56	129.40
DW-2*	7/15/2008	2	60	55 to 60	135.79	na	na	7.17	128.62	7.17	128.62	6.40	129.39	9.49	126.30
MW-1X	old existing	2	13	3 to 13	135.71	na	na	na	na	na	na	3.27	132.44	5.03	130.68

TOC = top of casing.

DTW = depth to water.

bgs = below ground surface

* = Type III Monitoring Well (Well identified on Well Construction Record as DMW-1; however, well has always been designed as DW-2 since installation

TABLE 2

SUMMARY OF GROUNDWATER SAMPLING - FIELD PARAMETER MEASUREMENTS

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
SITE ID: NONCD0002795
ENVIROASSESSMENTS PROJECT NO. 07-7019.9

Parameter		T (^{0}C)		EC (uS/cm)		ORP (mV)		DO (mg/L) (%)		pH		Turbidity (NTU)	
Well ID	Date	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge	pre-purge	post-purge
MW-1 Plume Fringe/Near Source	4/5/2011	16.96	17.24	125	224	-71.0	-135.3	45.0	2.6	6.34	5.81	203.1	8.13
	3/19/2013	13.97	14.02	167	161	207.2	229.3	91.2	60.7	5.67	5.78	77.37	21.33
	10/9/2013	24.0	25.4	189.6	185.5	232.6	247.8	0.90	0.59	5.55	5.51	92.30	6.78
MW-2	4/5/2011	17.78	17.24	219	224	-118.4	-135.3	6.8	2.6	5.94	5.81	10.88	8.13
	3/16/2013	17.90	17.64	249	249	-32.4	-21.6	62.0	19.1	6.03	5.89	14.40	10.58
	10/9/2013	24.8	26.0	264.1	272.5	8.4	-33.2	0.93	0.25	6.08	6.09	4.94	0.01
MW-3	4/1/2011	16.03	16.76	204	211	-7.1	-112.5	14.6	5.8	6.54	6.36	14.90	10.65
	3/16/2013	19.00	17.81	44	41	77.6	173.1	121.2	70.8	5.85	5.01	189.9	121.4
	10/8/2013	23.1	23.8	370.4	372.4	10.8	-4.9	0.81	0.32	6.45	6.46	27.30	8.18
MW-4	4/1/2011	15.26	15.01	68	65	70.7	-8.9	99.7	84.9	6.36	6.05	311.8	163.8
	3/15/2013	15.74	14.82	43	42	118.7	194.5	76.6	74.6	5.87	4.88	292.8	189.6
	10/9/2013	22.7	23.4	75.9	79.0	77.9	111.1	1.10	0.5	5.93	5.84	328.6	90.82
MW-5	3/30/2011	15.50	16.18	219	205	-5.6	-159.1	11.2	1.5	5.37	5.28	43.44	2.51
	3/16/2013	20.12	17.66	404	365	44.1	71.6	97.2	48.2	5.56	4.88	251.3	79.83
	10/8/2013	22.8	23.6	344.2	422.5	265.2	252.2	1.00	0.37	4.93	5.20	431.0	39.18
MW-6 Plume Fringe/Downgradient	4/5/2011	16.04	16.44	135	137	-64.9	-100.6	12.8	2.1	5.16	5.44	61.54	9.56
	3/18/2013	14.22	14.50	143	127	144.0	81.1	38.6	3.1	4.69	4.98	205.8	40.40
	10/9/2013	22.5	22.5	130.1	144.3	80.2	-13.8	19.1	0.50	5.23	5.28	247.1	11.32
MW-7 Upgradient	4/1/2011	13.76	14.04	181	175	30.5	-71.6	42.0	6.2	5.84	5.88	241.3	41.55
	3/18/2013	12.55	12.83	133	138	38.5	145.8	38.4	27.4	5.70	5.38	105.3	88.18
	10/9/2013	22.0	22.4	132	128.7	253.2	250.1	1.23	0.32	5.15	5.24	199.5	27.74
MW-8	4/6/2011	18.95	19.05	121	86	83.3	-57.2	45.0	33.7	6.50	6.03	20.25	2.21
	3/15/2013	19.21	18.97	56	53	129.8	172.8	43.7	23.3	5.08	4.52	15.31	12.04
	10/8/2013	22.9	22.3	51.9	65.7	193.3	210.3	1.38	1.58	5.00	4.59	8.10	12.64
MW-9	4/6/2011	18.96	19.37	194	194	-58.6	-73.5	37.4	37.8	6.23	6.24	28.18	28.26
	3/15/2013	16.04	16.20	68	67	185.1	221.2	26.5	22.3	4.58	4.42	26.36	8.65
	10/8/2013	21.8	21.6	64.2	66.3	240.4	262	11.10	12.3	4.72	4.74	67.27	89.3
MW-10	4/5/2011	19.73	19.25	136	136	7.7	-12.7	35.1	24.7	5.36	5.12	86.08	188.6
	3/16/2013	19.33	22.70	59	57	147.5	148.6	22.7	20.6	3.89	4.29	21.50	21.74
	10/8/2013	23.5	21.2	78.9	79.4	225.4	238.4	1.19	1.00	5.00	5.02	22.76	18.46
MW-11	4/6/2011	19.49	20.26	115	110	-10.9	-43.2	41.5	33.8	5.72	5.62	21.06	12.96
	3/19/2013	13.62	14.58	45	45	139.3	190.0	48.60	18.0	4.52	4.45	9.29	7.64
	10/9/2013	21.8	22.6	47.9	59.4	214.6	222.1	0.92	0.74	5.19	5.45	16.99	7.39
MW-12 Source/Plume Interior	4/6/2011	17.28	17.55	171	204	-28.6	-53.0	98.2	38.5	5.53	5.81	47.1	19.01
	3/19/2013	16.93	16.31	223	427	53.8	-44.9	27.9	8.0	5.87	6.09	17.31	3.46
	10/9/2013	22.9	21.4	190.6	220.7	-26.9	-59.5	0.83	0.67	5.63	5.79	12.31	9.04
MW-13	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/16/2013	19.75	21.10	52	52	176.4	182.5	20.2	14.1	3.69	4.16	16.38	3.19
	10/9/2013	21.5	20.4	71.2	76.7	230.6	271.3	0.96	1.12	4.80	4.64	4.19	0.00
MW-14	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	16.12	15.68	155	143	161.2	115.3	82.4	44.1	4.65	5.11	82.18	30.16
	10/8/2013	23.0	23.1	179.0	159.1	271.1	261.7	0.39	0.36	4.85	4.74	110.1	94.52
MW-15	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	17.02	15.56	200	187	62.2	71.5	157.0	126.2	6.35	5.69	44.73	23.90
	10/8/2013	23.0	22.7	115.7	138.3	208.5	244.1	0.93	0.40	5.02	4.76	5.03	0.20
MW-16	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	15.90	15.90	129	132	149.3	172.1	82.2	72.1	6.03	5.70	44.12	62.56
	10/8/2013	22.0	21.2	142.2	191.2	53.1	139.2	0.95	0.76	5.09	5.31	4.27	10.61
MW-17	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/17/2013	14.36	13.83	259	280	126.6	168.4	70.1	76.2	5.16	4.63	139.1	18.64
	10/8/2013	22.7	23.2	245.3	273.4	241.8	278.4	4.54	4.51	4.71	4.31	260.0	36.74
MW-18	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	12.86	13.00	525	561	94.6	98.9	90.8	75.7	6.39	6.48	60.90	3.57
	10/9/2013	24.1	22.5	351.4	421.1	220.0	197.0	0.78	0.83	5.91	6.15	5.22	0.00
MW-19	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm	nm
	10/8/2013	24.3	24.1	150.2	180.8	59.8	31.3	1.00	0.81	5.43	5.54	23.88	3.72
MW-20	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/19/2013	16.40	16.78	194	210	25.8	-8.0	11.2	4.0	5.88	5.98	239.4	33.85
	10/8/2013	29.0	26.4	142.1	167.6	20.5	-56.2	1.33	0.23	5.80	6.09	8.88	105.9
MW-21	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	14.98	15.74	161	105	112.5	101.1	61.2	13.9	6.15	5.11	369.8	11.36
	10/8/2013	23.8	23.6	134.6	95.2	239.1	246.3	1.17	0.22	5.63	5.12	51.61	36.61
MW-22 Downgradient	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	15.91	16.57	180	160	143.1	104.2	26.8	9.5	5.35	4.91	41.78	6.41
	10/9/2013	22.0	22.5	175.2	172.1	220.7	240.1	10.60	0.60	4.62	4.62	8.50	2.88
DW-2	4/6/2011	18.60	19.31	148	132	-68.1	-98.9	12.7	4.1	4.98	4.85	11.99	12.32
	3/16/2013	19.77	20.51	127	120	126.2	52.1	42.7	14.0	4.50	4.72	76.53	16.27
	10/8/2013	21.0	21.1	147.9	147.9	239.0	291.1	2.74	0.95	4.58	4.47	2.45	6.30
MW-1X	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/18/2013	13.36	13.94	126	127	-87.3	-134.7	93.4	13.2	6.02	5.96	9.66	5.22
	10/8/2013	23.3	24.0	105.8	106.2	8.0	-57.0	0.66	0.26	5.73	5.67	24.62	6.83
Values Favorable for Natural Attenuation		>20		--		<50		(<12%) <0.5 mg/L		5 - 9		--	

Notes:

SU Standard Units
EC Electrical Conductivity
uS/cm Micro Seimens per centimeter (0-1,999)
T Temperature
^{0}C Degrees Celsius
DO Dissolved Oxygen
mg/L Milligrams per liter
mV Millivolts
ORP Oxidation-Reduction Potential
nm Not Measured

pre-purge = initial measurements prior to beginning monitoring well purging
post-purge = final measurements after well purging complete and prior to sampling

42.7 = DO measured in percent (%) with favorable Natural Attenuation < 12%

= Indicates conditions favorablefor bioremediation
[anaerobic biodegradation (i.e., reductive dechorination)]

TABLE 3

SUMMARY OF GROUNDWATER SAMPLING RESULTS - GEOCHEMICAL / NATURAL ATTENUATION PARAMETERS

R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS PROJECT NO. 07-7019.9

Sample ID		**MW-7**		**MW-1**		**MW-12**		**MW-6**		**MW-22**		**Values Conducive to Bioremediation**
Screen Interval or (Sample Depth) - ft		5-15		4-14		5-15		4-14		5-15		
Sample Date		3/18/2013	10/9/2013	3/19/2013	10/9/2013	3/19/2013	10/9/2013	3/18/2013	10/9/2013	3/18/2013	10/9/2013	
Constituent	Method											
Ethane (ug/L)	RSK 175	**< 0.86**	**< 6.2**	**< 0.86**	**< 6.2**	**< 0.86**	**< 6.2**	**< 0.86**	**< 6.2**	**< 0.86**	**< 6.2**	<10 / <100
Ethene (ug/L)	RSK 175	**< 0.79**	**< 6.2**	**< 0.79**	**< 6.2**	**< 0.79**	**< 6.2**	**< 0.79**	**< 6.2**	**< 0.79**	**< 6.2**	<10 / <100
Methane (ug/L)	RSK 175	< 3.3	**14.2**	< 3.3	< 6.6	**1030**	**765**	**261**	**478**	< 3.3	< 6.6	>500 / >10
Nitrogen, Nitrate - NO3 (mg/L)	EPA 353.2	**0.44**	**0.53**	4.6	6.0	**< 0.020**	**< 0.020**	**< 0.020**	**< 0.020**	4.0	3.9	<1
Nitrogen, Nitrite - NO2 (mg/L)	EPA 353.2	0.034	< 0.020	< 0.020	< 0.040	< 0.020	0.06	< 0.020	< 0.020	< 0.020	< 0.020	NE
Nitrogen, NO2 Plus NO3 (mg/L)	EPA 353.2	0.47	0.53	4.6	6.0	< 0.020	0.02	< 0.020	< 0.020	4.0	3.9	NE
Sulfate (mg/L)	EPA 300.0	35.1	31.1	24.1	**21.7**	**6.5**	**9.8**	**16.3**	**12.2**	23.4	**21.5**	<20
Total Organic Carbon - TOC (mg/L)	SM 5310B	13.7	10.8	5.1	6.5	**19.9**	10.2	6.8	7.2	3.8	**22.5**	>20
Ferrous Iron - Fe+2 (mg/L)	Colorimetric kit	0.0	0.4	0	0.2	**6.1**	**1.8**	**5.9**	**1.1**	**0.9**	0	>1
Carbon Dioxide - CO2 (mg/L)	Digital titration kit	**166**	132	85	136	**363**	**435**	**176**	**219**	86	103	>2X Background*
Relative Well Location From Source		**Upgradient**		**Plume Fringe/ Near Source**		**Source/Plume Interior**		**Plume Fringe/ Downgradient**		**Downgradient**		

Notes:
ug/L - micrograms per liter
mg/L - milligrams per liter
NE - not established
< = concentration is below the lesser of the adjusted laboratory Reporting Limit (RL) and/or adjusted Method Detection Limit (MDL).

= Indicates conditions favorable for bioremediation (anaerobic biodegradation / reductive dechorination)
= Indicates conditions plausible for bioremediation (anaerobic biodegradation / reductive dechorination)

TABLE 4

GROUNDWATER ANALYTICAL RESULTS (2007 - 2013)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.9

Sample ID	Analytical	MW-1						MW-2					MW-3						MW-4					North Carolina 2L Groundwater	Gross Contamination Levels for
Collection Date	Method	9/11/2007	6/3/2008	4/5/2011	2/19/2013	3/19/2013	10/9/2013	9/11/2007	6/3/2008	4/6/2011	3/16/2013	10/9/2013	9/11/2007	6/3/2008	4/1/2011	2/19/2013	3/16/2013	10/8/2013	9/11/2007	6/3/2008	4/1/2011	3/15/2013	10/8/2013	Quality Standards	Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																									
Acetone	8260B	< 10.0	< 10.0	< 25.0	< 25.0	< 25.0	<10.0	< 10.0	< 20.0	334	< 25.0	<50.0	< 100.0	< 10.0	< 25.0	< 25.0	< 25.0	< 10.0	< 10.0	< 10.0	< 25.0	< 25.0	< 10.0	6000	6000000
Acrolein	8260B	< 10.0*	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	< 10.0*	< 20.0*	< 8.0*	< 1.6	<8.0	< 100.0*	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	< 10.0*	< 10.0*	< 1.6	< 1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	**418**	**1850**	**946**	**836**	**735**	**155**	**103**	**21.1**	**54.3**	< 1.0	0.85J	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	1	5000
Bromodichloromethane	8260B	< 0.60	< 0.60	< 0.18	< 0.18	< 0.18	<0.18	< 0.60	< 20.0*	< 0.90*	< 0.18	<0.90	< 6.0*	< 0.60	< 0.18	< 0.18	< 0.18	< 0.18	< 0.60	< 0.60	< 0.18	< 0.18	< 0.18	0.6	NE
2-Butanone (MEK)	8260B	< 10.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 10.0	< 20.0	98.0	< 5.0	<4.8	< 100.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 10.0	< 10.0	< 5.0	< 5.0	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	na	na	<3.6	na	na	na	na	<18.1	na	na	na	na	na	<3.6	na	na	na	na	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 20.0	< 5.0	< 1.0	<2.0	< 10.0	2.61	< 1.0	< 1.0	< 1.0	<0.41	24	< 1.0	< 1.0	< 1.0	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 20.0	< 5.0	< 1.0	<1.9	< 10.0	1.64	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	< 1.0	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 20.0	< 5.0	< 1.0	<2.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 10.0	< 20.0	< 5.0	< 1.0	<1.2	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	0.18J	< 1.0	<0.14	< 1.0	< 20.0	< 5.0	< 1.0	<0.70	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 20.0	< 5.0	< 1.0	<1.8	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	100	NE
Dibromochloromethane	8260B	< 1.0*	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 1.0*	< 20.0*	< 0.21	< 0.21	<1.0	< 10.0*	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 1.0*	< 1.0*	< 0.21	< 0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 20.0	< 5.0	< 1.0	<1.0	< 10.0	< 1.0	0.38 J	1.5	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	1000	140000
1,2-Dichloroethane	8260B	< 1.0*	< 1.0*	< 0.12	< 0.12	< 0.12	<0.12	< 1.0*	< 20.0*	< 0.60*	< 0.12	<0.60	< 10.0*	< 1.0*	< 0.12	0.31J	< 1.0	<0.12	< 1.0*	< 1.0*	< 0.12	< 0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	1.4	0.22J	0.27J	< 1.0	< 20.0	17.6	22.3	12.3	< 10.0	< 1.0	1.0	1.5	< 1.0	<0.19	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 1.0	< 20.0	10.2	10.2	4.8J	< 10.0	< 1.0	0.89 J	0.91J	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.12	< 1.0	< 20.0	57.8	42	23.3	**73.5**	NT	20.9	37.3	< 1.0	20.7	< 1.0	< 1.0	< 1.0	< 1.0	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.30	96.4	**982**	**732**	**614**	**643**	75.4	281	0.30 J	19.4	< 1.0	0.37J	166	15.5	< 1.0	< 1.0	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	39.6	38.4	43.0	32.8	< 10.0	15.4	0.92 J	1.6	< 1.0	<0.40	15.1	1.28	< 1.0	< 1.0	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	< 20.0	< 5.0	< 1.0	<1.6	< 10.0	3.66	< 1.0	< 1.0	< 1.0	<0.31	2.94	< 1.0	< 1.0	< 1.0	<0.31	25	11700
Methylene Chloride	8260B	< 5.0	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 5.0	< 20.0*	**8.2 J**	< 2.0	**37.4**	< 50.0*	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 5.0	< 5.0	< 2.0	< 2.0	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 10.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 10.0	< 20.0	< 25.0	< 5.0	<1.6	< 100.0	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 10.0	< 10.0	< 5.0	< 5.0	<0.33	100	100000
Methyl tert-butyl ether (MTBE)	8260B	1.7	1.14	< 1.0	< 1.0	< 1.0	<0.21	< 10.0	< 20.0	1.0 J	0.79 J	<1.0	< 10.0	< 1.0	0.52 J	0.89J	< 1.0	0.44J	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	20	20000
Naphthalene	8260B	< 1.0	< 1.0	0.45 J	0.25J	< 1.0	<0.24	**15.1**	**330**	**420**	**296**	**395**	**30**	**178**	4.8	**20.9**	< 1.0	0.38J	**81.2**	**12.1**	< 1.0	0.80J	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.42	< 1.0	**72.8**	66.3	**72.1**	66.9	< 10.0	25.1	< 1.0	2.8	< 1.0	<0.42	42	3.28	< 1.0	< 1.0	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	20.6	< 5.0	< 1.0	<1.3	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	3.76	< 1.0	< 1.0	< 1.0	<0.26	70	70000
1,1,2,2-Tetrachloroethane	8260B	**49.4**	**9.78**	**3.2**	**41.8**	**15.9**	**21.1**	**134**	< 20.0*	< 2.0*	< 0.40*	<2.0	< 10.0*	< 1.0*	**0.74 J**	**1.6**	< 0.40*	<0.40	< 1.0*	< 1.0*	< 0.40*	< 0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 1.0*	< 1.0*	< 0.46	**0.75J**	< 0.46	<0.46	< 1.0*	< 20.0*	< 2.3*	< 0.46	<2.3	< 10.0*	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 1.0*	< 1.0*	< 0.46	< 0.46	<0.46	0.7	700
Toluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	530	**2360**	112	71.2	23.4	315	1.66	0.83 J	1.7	< 1.0	<0.26	49.1	< 1.0	< 1.0	< 1.0	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 1.0*	< 1.0*	< 0.29	**1.4**	0.32J	0.35J	< 1.0*	< 20.0*	< 1.4*	< 0.29	<1.4	< 10.0*	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 1.0*	< 1.0*	< 0.29	< 0.29	<0.29	0.6	600
Trichloroethene (TCE)	8260B	**9.51**	2.71	0.74 J	**10.8**	**4.6**	**7.9**	**21.5**	< 20.0*	< 2.4	< 1.0	<2.4	< 10.0*	< 1.0	0.72 J	0.87J	< 1.0	<0.47	< 1.0	< 1.0	< 1.0	< 1.0	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	na	na	<0.090	na	na	na	na	157	na	na	na	na	na	<0.090	na	na	na	na	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	34.7	**631**	397	334	**490**	35.4	50.6	1.1	3.0	< 1.0	<0.31	331	22.9	< 1.0	< 1.0	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	16.2	126	77.8	61.0	<1.8	12	30.4	< 1.0	< 1.0	< 1.0	<0.36	122	4.33	< 1.0	< 1.0	<0.36	400	25000
Vinyl chloride	8260B	< 1.0*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62	< 1.0*	< 20.0*	< 3.1*	**1.3**	<3.1*	< 10.0*	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62	< 1.0*	< 1.0*	< 0.62*	< 0.62*	<0.62*	0.03	30
m&p-Xylene	8260B	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<0.66	171	**1800**	**1110**	**775**	452	161	< 2.0	< 2.0	1.0J	< 2.0	<0.66	**645**	45.9	< 2.0	< 2.0	<0.66	500	85500
o-Xylene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	126	**982**	99.5	33.1	16.2	95.9	< 1.0	1.1	0.94J	< 1.0	<0.23	285	15	< 1.0	< 1.0	<0.23	500	85500
Xylenes - Total	8260B	0	0	0	0	0	0	297	2782	1209.5	808.1	468.2	256.9	0	1.1	0	0	0	930	60.9	0	0	0		
Total TICs	8260B	NT	NT	0	NT	0	NT	NT	NT	4015.8	2909.4	NT	NT	NT	0.17775	NT	0	NT	NT	NT	0	0	NT	NE	NE
Total VOCs	8260B	60.61	13.63	4.39	56.58	21.04	29.62	1859.9	11976	8541.6	6121.39	3084.3	1210.1	693.07	55.47775	149.52	0	22.74	2697.1	181.19	0	0.80	0.00	NA	NA
Total BTEX	8260B	0	0	0	0	0	0	1341.4	7974	2999.5	2329.3	1869.6	802.3	385.66	23.33	77.34	0	1.22	1145.1	76.4	0	0	0	NA	NA
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																									
Acenaphthene	8270	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	1.9 J	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	80	2120
Benzyl Alcohol	8270	< 10.0	NT	< 20.0	NT	NT	NT	< 10.0	NT	< 23.5	NT	NT	12	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 23.5	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	< 4.0*	NT	< 0.79	NT	NT	NT	< 4.0*	NT	1.9 J	NT	NT	< 4.0*	NT	< 2.4	NT	NT	NT	< 4.0*	NT	< 0.93	NT	NT	3	170
Dibenzofuran	8270	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	2.6 J	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	28	28000
Fluorene	8270	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	4.1 J	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	300	990
1-Methylnaphthalene	8270	< 10.0*	NT	< 0.32	NT	NT	NT	< 10.0*	NT	**17.2**	NT	NT	< 10.0*	NT	< 0.32	NT	NT	NT	< 10.0*	NT	< 0.38	NT	NT	1	1000
2-Methylnaphthalene	8270	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	23.2	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	30	12500
2-Methylphenol	8270	< 10.0	NT	< 10.0	NT	NT	NT	18.3	NT	< 11.8	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	400	400000
Naphthalene	8270	< 10.0*	NT	< 0.34	NT	NT	NT	< 10.0*	NT	**155**	NT	NT	**15.5**	NT	2.5 J	NT	NT	NT	**15.5**	NT	< 0.40	NT	NT	6	6000
Phenanthrene	8270	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	4.4 J	NT	NT	< 10.0	NT	< 10.0	NT	NT	NT	< 10.0	NT	< 11.8	NT	NT	200	410
Total TICs	8270	NT	NT	68.46	NT	NT	NT	NT	NT	735.6	NT	NT	NT	NT	78.41	NT	NT	NT	NT	NT	109.46	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																									
Antimony	6010	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	1	NE
Arsenic	6010	NT	< 9.1	< 5.0	NT	NT	NT	NT	< 9.1	2.8 J	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	10	NE
Beryllium	6010	NT	< 3.6	< 1.0	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	NT	< 3.6	< 1.0	NT	NT	4	NE
Cadmium	6010	NT	< 4.6*	< 0.50	NT	NT	NT	NT	< 4.6*	< 0.50	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	NT	< 4.6*	< 1.0	NT	NT	2	NE
Chromium	6010	NT	NT	< 5.0	NT	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	< 5.0	NT	NT	NT	NT	NT	5.8	NT	NT	10	10000
Copper	6010	NT	< 9.1	7.5	NT	NT	NT	NT	16	< 5.0	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	44.7	13.7	NT	NT	1000	NE
Lead	6010	10.9	7.67	< 5.0	NT	NT	NT	13.7	**63.6**	< 5.0	NT	NT	13.1	**18.7**	< 5.0	NT	NT	NT	**131**	**241**	14.8	NT	NT	15	15000
Manganese	6010	NT	17	NT	NT	NT	NT	NT	**73.9**	NT	NT	NT	NT	**285**	NT	NT	NT	NT	NT	**132**	NT	NT	NT	50	NE
Nickel	6010	NT	< 9.1	< 5.0	NT	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	NT	< 9.1	2.6 J	NT	NT	100	NE
Selenium	6010	NT	< 27*	< 10.0	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	NT	< 27*	< 10.0	NT	NT	20	NE
Silver	6010	NT	< 18.0	< 5.0	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	NT	< 18.0	< 5.0	NT	NT	20	20000
Thallium	6010	NT	< 18.0*	< 5.0*	NT	NT	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	< 18.0*	<5.0*	NT	NT	NT	NT	< 18.0*	<5.0*	NT	NT	0.2	NE
Zinc	6010	NT	377	200	NT	NT	NT	NT	52.6	8.7 J	NT	NT	NT	29.6	< 10.0	NT	NT	NT	NT	219	53.5	NT	NT	1000	NE
Mercury by EPA Method 7471																									
Mercury	7471	NT	<0.20	<0.10	NT	NT	NT	NT	<0.20	<0.20	NT	NT	NT	<0.20	<0.20	NT	NT	NT	NT	<0.20	<0.20	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank

"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2013)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.9

Sample ID	Analytical	MW-5				MW-6					MW-7					MW-8			MW-9				North Carolina 2L Groundwater	Gross Contamination Levels
Collection Date	Method	6/3/2008	3/30/2011	3/16/2013	10/8/2013	6/3/2008	4/5/2011	2/19/2013	3/18/2013	10/9/2013	6/3/2008	4/1/2011	2/19/2013	3/18/2013	10/9/2013	4/6/2011	3/15/2013	10/8/2013	4/6/2011	2/19/2013	3/15/2013	10/8/2013	Quality Standards	for Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																								
Acetone	8260B	< 10.0	< 25.0	< 25.0	< 10.0	< 10.0	< 25.0	< 25.0	< 25.0	16.9J	16	< 25.0	< 25.0	< 25.0	<10.0	41.0	< 25.0	<10.0	13.8 J	< 25.0	< 25.0	<10.0	6000	6000000
Acrolein	8260B	< 10.0*	< 1.6	< 1.6	<1.6	< 10.0*	< 1.6	< 1.6	< 1.6	<1.6	**117**	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	<0.25	**2.14**	**3.1**	**1.8**	**2.6**	<0.25	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	**3.7**	< 1.0	<0.25	**1.3**	< 1.0	< 1.0	<0.25	1	5000
Bromodichloromethane	8260B	< 0.60	< 0.18	< 0.18	< 0.18	< 0.60	< 0.18	< 0.18	< 0.18	<0.18	< 20.0*	< 0.18	< 0.18	< 6.0*	<0.18	< 0.18	< 0.18	<0.18	< 0.18	< 0.18	< 0.18	<0.18	0.6	NE
2-Butanone (MEK)	8260B	< 10.0	< 5.0	< 5.0	<0.96	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	< 10.0	< 5.0	< 5.0	< 5.0	<0.96	7.1	< 5.0	<0.96	< 5.0	< 5.0	< 5.0	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	<3.6	na	na	na	na	**49.4J**	na	na	na	na	<3.6	na	na	<3.6	na	na	na	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	15.7	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	0.86 J	< 1.0	<0.38	< 1.0	1.3	0.95 J	1.2	1.6	10.8	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	1.86	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	<0.35	100	NE
Dibromochloromethane	8260B	< 1.0*	< 0.21	< 0.21	<0.21	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 1.0*	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	1000	140000
1,2-Dichloroethane	8260B	< 1.0*	< 0.12	< 0.12	<0.12	< 1.0*	0.14 J	0.15J	< 0.12	0.23J	< 1.0*	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	<0.19	< 1.0	< 1.0	< 1.0	< 1.0	0.27J	< 1.0	< 1.0	< 1.0	< 1.0	<0.19	< 1.0	< 1.0	<0.19	< 1.0	< 1.0	< 1.0	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	<0.12	NT	8.7	7.7	7.6	11.7	NT	< 1.0	< 1.0	< 1.0	<0.12	1.7	0.30J	0.94J	< 1.0	< 1.0	< 1.0	0.21J	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.30	2.19	3.6	2.8	4.1	1.5	15.3	< 1.0	< 1.0	< 1.0	<0.30	12.4	< 1.0	<0.30	0.31 J	< 1.0	< 1.0	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.40	1.79	3.4	1.8	2.5	1.4	7.57	< 1.0	< 1.0	< 1.0	<0.40	1.9	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	**47.2**	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	<0.31	25	11700
Methylene Chloride	8260B	< 5.0	< 2.0	< 2.0	<0.97	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 5.0	< 2.0	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	< 2.0	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 10.0	< 5.0	< 5.0	<0.33	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	< 10.0	< 5.0	< 5.0	< 5.0	<0.33	1.1 J	< 5.0	<0.33	< 5.0	< 5.0	< 5.0	<0.33	100	100000
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	1.4	< 1.0	<0.21	< 1.0	0.66 J	0.46J	0.40J	0.56J	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	20	20000
Naphthalene	8260B	1.63	< 1.0	0.42J	<0.24	4.47	**14.8**	**7.1**	**11.6**	**16.3**	**21.7**	< 1.0	< 1.0	< 1.0	<0.24	2.2	< 1.0	<0.24	< 1.0	< 1.0	< 1.0	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.42	< 1.0	0.55 J	0.61 J	1.0	<0.42	15.3	< 1.0	< 1.0	< 1.0	<0.42	2.5	< 1.0	<0.42	< 1.0	< 1.0	< 1.0	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	70	70000
1,1,2,2-Tetrachloroethane	8260B	< 1.0*	**3.7**	**2.8**	**1.9**	< 1.0*	< 0.40*	**0.58J**	**0.48J**	**0.76J**	< 1.0*	< 0.40*	< 0.40*	< 0.40*	**0.56J***	**0.89 J**	**1.3**	**2.6**	**4.8**	**14.3**	**2.5**	**7.3**	0.2	200
Tetrachloroethene (PCE)	8260B	< 1.0*	< 0.46	< 0.46	<0.46	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 1.0*	< 0.46	< 0.46	< 0.46	<0.46	< 0.46	< 0.46	<0.46	< 0.46	< 0.46	< 0.46	0.49J	0.7	700
Toluene	8260B	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	0.44 J	< 1.0	<0.26	0.53 J	< 1.0	< 1.0	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 1.0*	< 0.29	< 0.29	<0.29	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 1.0*	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	< 0.29	<0.29	< 0.29	< 1.0	< 0.29	<0.29	0.6	600
Trichloroethene (TCE)	8260B	< 1.0	1.1	0.60J	<0.47	< 1.0	< 1.0	ND	< 1.0	<0.47	< 1.0	< 0.29	< 1.0	< 1.0	<0.47	< 1.0	< 1.0	<0.47	< 1.0	1.4	< 1.0	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	<0.090	na	na	na	na	<0.090	na	na	na	na	<0.090	na	na	<0.090	na	na	na	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	0.48 J	0.39 J	0.60 J	<0.31	145	< 1.0	< 1.0	< 1.0	<0.31	29.3	< 1.0	<0.31	0.69 J	< 1.0	< 1.0	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	<0.36	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	55.4	< 1.0	< 1.0	< 1.0	<0.36	18.6	< 1.0	<0.36	< 1.0	< 1.0	< 1.0	<0.36	400	25000
Vinyl chloride	8260B	< 1.0*	< 0.62*	< 0.62*	<0.62	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62	< 1.0*	< 0.62*	< 0.62*	< 0.62*	<0.62	< 0.62*	< 0.62*	<0.62	< 0.62*	< 0.62*	< 0.62*	<0.62	0.03	30
m&p-Xylene	8260B	< 2.0	< 2.0	< 2.0	<0.66	< 2.0	< 2.0	< 2.0	< 2.0	<0.66	40	< 2.0	< 2.0	< 2.0	<0.66	27.9	< 2.0	<0.66	< 2.0	< 2.0	< 2.0	<0.66	500	85500
o-Xylene	8260B	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	0.24 J	< 1.0	< 1.0	<0.23	1.05	< 1.0	< 1.0	< 1.0	<0.23	1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	<0.23	500	85500
Xylenes - Total	8260B	0	0	0	0	0	0	0	0	0	41.05	0	0	0	0	28.9	0	0	0	0	0	0		
Total TICs	8260B	NT	0	0	NT	NT	282.42	NT	151.39	NT	NT	0	NT	0	NT	164.37	0	NT	0	NT	0	NT	NE	NE
Total VOCs	8260B	1.63	7.06	3.83	1.9	10.59	319.39	24.34	183.47	100.62	550.93	0	0	0	0.56	316.1	1.6	3.54	21.43	15.7	2.5	8	NA	NA
Total BTEX	8260B	0	0	0	0	4.33	6.94	4.6	6.7	1.5	56.35	0	0	0	0	45.44	0	0	2.14	0	0	0	NA	NA
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																								
Acenaphthene	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	NT	< 20.0	NT	NT	NT	< 22.2	NT	NT	NT	NT	< 21.7	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	NT	1.1 J	NT	NT	NT	< 0.99	NT	NT	NT	NT	< 0.86	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	NT	< 0.32	NT	NT	NT	**1.2 J**	NT	NT	NT	NT	< 0.35	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	1000
2-Methylnaphthalene	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	NT	< 0.34	NT	NT	NT	4.6 J	NT	NT	NT	NT	< 0.37	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	NT	< 10.0	NT	NT	NT	< 11.1	NT	NT	NT	NT	< 10.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	76.72	NT	NT	NT	59.69	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																								
Antimony	6010	< 18.0*	< 2.6*	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	< 18.0*	< 2.6*	NT	NT	NT	< 2.6*	NT	NT	< 2.6*	NT	NT	NT	1	NE
Arsenic	6010	< 9.1	< 5.0	NT	NT	< 9.1	< 5.0	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	10	NE
Beryllium	6010	< 3.6	< 1.0	NT	NT	< 3.6	< 1.0	NT	NT	NT	< 3.6	< 1.0	NT	NT	NT	< 1.0	NT	NT	< 1.0	NT	NT	NT	4	NE
Cadmium	6010	< 4.6*	< 1.0	NT	NT	< 4.6*	< 1.0	NT	NT	NT	< 4.6*	< 1.0	NT	NT	NT	< 1.0	NT	NT	< 1.0	NT	NT	NT	2	NE
Chromium	6010	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	10	10000
Copper	6010	30.2	3.0 J	NT	NT	< 9.1	< 5.0	NT	NT	NT	< 9.1	2.1 J	NT	NT	NT	< 5.0	NT	NT	3.4 J	NT	NT	NT	1000	NE
Lead	6010	**30.5**	< 5.0	NT	NT	< 5.5	< 5.0	NT	NT	NT	**53.9**	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	15	15000
Manganese	6010	**54.1**	NT	NT	NT	28.1	NT	NT	NT	NT	15.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	11.8	< 5.0	NT	NT	< 9.1	< 5.0	NT	NT	NT	< 9.1	< 5.0	NT	NT	NT	17.0	NT	NT	13.9	NT	NT	NT	100	NE
Selenium	6010	< 27*	< 10.0	NT	NT	< 27*	< 10.0	NT	NT	NT	< 27*	< 10.0	NT	NT	NT	< 10.0	NT	NT	< 10.0	NT	NT	NT	20	NE
Silver	6010	< 18.0	< 5.0	NT	NT	< 18.0	< 5.0	NT	NT	NT	< 18.0	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	20	20000
Thallium	6010	< 18.0*	< 5.0*	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	< 18.0*	< 5.0*	NT	NT	NT	< 5.0*	NT	NT	< 5.0*	NT	NT	NT	0.2	NE
Zinc	6010	322	19.0	NT	NT	61.8	13.2	NT	NT	NT	< 23.0	16.9	NT	NT	NT	60.4	NT	NT	94.3	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																								
Mercury	7471	<0.20	<0.20	NT	NT	<0.20	<0.20	NT	NT	NT	<0.20	<0.20	NT	NT	NT	< 0.20	NT	NT	<0.20	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2013)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.9

Sample ID	Analytical	MW-10			MW-11				MW-12				MW-13			DW-2				PWS	MW-1 (X)**			North Carolina 2L Groundwater	Gross Contamination Levels
Collection Date	Method	4/5&6/2011	3/16/2013	10/8/2013	4/6/2011	2/19/2013	3/19/2013	10/9/2013	4/6/2011	2/19/2013	3/19/2013	10/9/2013	4/6/2011	3/16/2013	10/9/2013	4/1/2011	2/19/2013	3/16/2013	10/8/2013	4/6/2011	2/19/2013	3/18/2013	10/8/2013	Quality Standards	for Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																									
Acetone	8260B	10.7 J	< 25.0	< 10.0	10.9J	< 25.0	< 25.0	<10.0	< 25.0	< 25.0	< 25.0	26.8	33.3	< 25.0	<10.0	< 25.0	< 25.0	< 25.0	< 10.0	< 25.0	10.5J	< 25.0	< 10.0	6000	6000000
Acrolein	8260B	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	< 1.6	< 1.6	< 1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	<0.25	< 1.0	< 1.0	< 1.0	0.31J	**75.0**	**67.7**	**163.0**	**44**	< 1.0	< 1.0	0.27J	< 1.0	< 1.0	< 1.0	<0.25	< 1.0	0.35J	0.66J	<0.25	1	5000
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	< 0.18	< 20.0*	<0.18	< 0.18	< 0.18	<0.18	< 6.0*	< 0.18	< 0.18	< 0.18	**1.5**	< 0.18	< 0.18	< 0.18	0.6	NE
2-Butanone (MEK)	8260B	< 5.0	< 5.0	<0.96	< 5.0	< 5.0	< 5.0	<0.96	< 5.0	< 5.0	< 5.0	<0.96	< 5.0	< 5.0	<0.96	< 5.0	< 5.0	< 5.0	<0.96	< 5.0	< 5.0	< 5.0	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	<3.6	na	na	na	<3.6	na	na	na	**46.2J**	na	na	<3.6	na	na	na	<3.6	na	na	na	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	<0.41	< 1.0	< 1.0	< 1.0	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	<0.38	< 1.0	< 1.0	< 1.0	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	1.4	< 1.0	<0.23	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	0.37J	< 1.0	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	<0.14	0.55J	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	<0.14	< 1.0	< 1.0	< 1.0	<0.14	4.3	< 1.0	< 1.0	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	<0.35	4.6	9.2	6.1	6.7	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	<0.35	< 1.0	< 1.0	< 1.0	<0.35	100	NE
Dibromochloromethane	8260B	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	<0.21	< 0.21	< 0.21	< 0.21	<0.21	0.71 J	< 0.21	< 0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	1000	14000
1,2-Dichloroethane	8260B	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	< 0.12	< 0.12	< 0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	<0.19	1.9	1.7	1.9	2.2	9.9	21.0	6.6	21	< 1.0	1.1	1.2	< 1.0	< 1.0	< 1.0	<0.19	< 1.0	< 1.0	< 1.0	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	<0.49	0.97J	< 1.0	0.59J	0.51J	6.5	17.7	5.9	18.7	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	<0.49	< 1.0	< 1.0	< 1.0	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	<0.12	< 1.0	< 1.0	< 1.0	<0.12	3.3	4.3	5.5	3	< 1.0	< 1.0	<0.12	< 1.0	< 1.0	< 1.0	<0.12	< 1.0	< 1.0	< 1.0	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	<0.30	< 1.0	< 1.0	< 1.0	0.51J	16.9	20.9	117	<0.30	< 1.0	< 1.0	<0.30	< 1.0	< 1.0	< 1.0	<0.30	< 1.0	18.2	15.9	8.3	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	1.4	< 1.0	7.0	<0.40	< 1.0	< 1.0	<0.40	< 1.0	< 1.0	< 1.0	<0.40	< 1.0	3.4	3.5	1.7	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	5.3	< 1.0	2.3	25	11700
Methylene Chloride	8260B	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	< 2.0	<0.97	< 2.0	< 2.0	< 2.0	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	< 5.0	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 5.0	< 5.0	<0.33	< 5.0	< 5.0	< 5.0	<0.33	< 5.0	< 5.0	< 5.0	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	0.59 J	0.45J	0.31J	0.39J	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	< 1.0	< 1.0	< 1.0	<0.21	20	20000
Naphthalene	8260B	< 1.0	< 1.0	<0.24	< 1.0	< 1.0	< 1.0	0.70J	2.6	**13.6**	**85.4**	0.34J	< 1.0	< 1.0	<0.24	< 1.0	< 1.0	< 1.0	<0.24	< 1.0	**7.9**	**7.9**	**7.8**	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	<0.42	< 1.0	< 1.0	< 1.0	<0.42	1.8	2.6	15.2	<0.42	< 1.0	< 1.0	<0.42	< 1.0	< 1.0	< 1.0	<0.42	< 1.0	3.8	3.3	1.9	70	30000
Styrene	8260B	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	70	70000
1,1,2,2-Tetrachloroethane	8260B	**7.4**	**19.7**	**8.9**	**418**	**111**	**152**	**101**	**47.3**	**71.4**	**14.9**	**23.6**	**19.9**	**121**	**91.3**	< 0.40*	< 0.40*	< 0.40*	<0.40*	< 0.40*	< 0.40*	< 0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 0.46*	< 0.46*	<0.46	**2**	0.60J	0.69J	0.51J	< 0.46*	**0.86J**	< 0.46	0.54J	< 0.46*	< 0.46	0.53J	< 0.46*	< 0.46*	< 0.46*	<0.46	< 0.46*	< 0.46*	< 0.46*	<0.46	0.7	700
Toluene	8260B	0.28 J	< 1.0	<0.26	0.39J	< 1.0	< 1.0	<0.26	1.2	1.7	8.3	<0.26	0.75 J	< 1.0	<0.26	< 1.0	< 1.0	< 1.0	<0.26	< 1.0	0.46J	0.50J	0.29J	600	260000
1,1,2-Trichloroethane	8260B	< 0.29	< 0.29	<0.29	**2.5**	**0.87J**	**1.0**	**0.94J**	**0.79 J**	**1.4**	< 0.29	**0.67J**	< 0.29	**1.1**	**0.92J**	< 0.29	< 0.29	< 0.29	<0.29	< 0.29	< 0.29	< 0.29	<0.29	0.6	NE
Trichloroethene (TCE)	8260B	0.55 J	1.9	0.81J	**55.5**	**23.0**	**29.1**	**24.1**	**12.1**	**28.3**	**8.4**	**21.1**	**3.4**	**14.4**	**11.8**	< 1.0	< 1.0	< 1.0	<0.47	< 1.0	< 1.0	< 1.0	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	<0.090	na	na	na	0.16J	na	na	na	<0.090	na	na	<0.090	na	na	na	<0.090	na	na	na	7.2	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	0.41J	0.73 J	3.3	32.3	<0.31	< 1.0	< 1.0	<0.31	< 1.0	< 1.0	< 1.0	<0.31	< 1.0	38.1	29.7	13	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	<0.36	< 1.0	< 1.0	< 1.0	<0.090	< 1.0	< 1.0	2.3	<0.36	< 1.0	< 1.0	<0.36	< 1.0	< 1.0	< 1.0	<0.36	< 1.0	24.6	15.7	5	400	25000
Vinyl chloride	8260B	< 0.62*	< 0.62*	<0.62	< 0.62*	< 0.62*	< 0.62*	<0.62*	**1.4**	**7.5**	**4.2**	**7.8**	< 0.62*	< 0.62*	<0.62	< 0.62*	< 0.62*	< 0.62*	<0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62*	0.03	30
m&p-Xylene	8260B	< 2.0	< 2.0	<0.66	< 2.0	< 2.0	< 2.0	<0.66	3.3	11.1	87	<0.66	< 2.0	< 2.0	<0.66	< 2.0	< 2.0	< 2.0	<0.66	< 2.0	47.3	36.8	15.8	500	85500
o-Xylene	8260B	< 1.0	< 1.0	<0.23	< 1.0	< 1.0	< 1.0	<0.23	3.0	1.8	8.5	0.77J	< 1.0	< 1.0	<0.66	< 1.0	< 1.0	< 1.0	<0.23	< 1.0	0.36J	0.30J	<0.23	500	500
Xylenes - Total	8260B	0	0	0	0	0	0	0	6.3	12.9	95.5	0.0	0	0	0	0	0	0	0	0	47.3	36.8	15.8	500	500
Total TICs	8260B	0	0	NT	0	NT	0	NT	145.42	NT	243.29	NT	0	0	NT	0	NT	0	NT	0	NT	90.49	NT	NE	NE
Total VOCs	8260B	18.93	21.6	9.71	492.71	137.17	185.28	131.35	337.83	286.21	821.2	221.61	57.35	137.6	106.02	0	0	0	0.00	6.51	160.607	204.75	63	NA	NA
Total BTEX	8260B	0.28	0	0	0.39	0	0	0.82	99.4	103.2	383.8	44.77	0.75	0	0.27	0	0	0	0	0	66.67	54.16	24.1	NA	NA
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																									
Acenaphthene	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	NT	NT	NT	< 23.8	NT	NT	NT	< 25.0	NT	NT	NT	NT	NT	NT	< 20.0	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	NT	NT	NT	< 0.94	NT	NT	NT	< 7.5	NT	NT	NT	NT	NT	NT	< 0.79	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	NT	NT	NT	< 0.38	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 0.32	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	NT	NT	NT	< 0.40	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 0.34	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	NT	NT	NT	< 11.9	NT	NT	NT	< 12.5	NT	NT	NT	NT	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	NT	NT	163.8	NT	NT	NT	113.23	NT	NT	NT	NT	NT	NT	86.6	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																									
Antimony	6010	< 2.6*	NT	NT	< 2.6*	NT	NT	NT	< 2.6*	NT	NT	NT	< 2.6*	NT	NT	< 2.6*	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	< 5.0	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	< 1.0	NT	NT	< 1.0	NT	NT	NT	< 1.0	NT	NT	NT	< 1.0	NT	NT	**4.1**	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	< 1.0	NT	NT	< 1.0	NT	NT	NT	< 1.0	NT	NT	NT	< 1.0	NT	NT	< 1.0	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	< 5.0	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	< 5.0	NT	NT	3.4 J	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	< 5.0	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	21.4	NT	NT	7.3	NT	NT	NT	7.8	NT	NT	NT	13.5	NT	NT	17.0	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	< 10.0	NT	NT	< 10.0	NT	NT	NT	< 10.0	NT	NT	NT	< 10.0	NT	NT	< 10.0	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	< 5.0	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	NT	< 5.0	NT	NT	< 5.0	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	< 5.0*	NT	NT	< 5.0*	NT	NT	NT	< 5.0*	NT	NT	NT	< 5.0*	NT	NT	< 5.0*	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	86.6	NT	NT	31.8	NT	NT	NT	45.3	NT	NT	NT	32.0	NT	NT	56.2	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																									
Mercury	7471	< 0.20	NT	NT	< 0.20	NT	NT	NT	< 0.20	NT	NT	NT	< 0.20	NT	NT	< 0.20	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738
na - not analyzed by laboratory based on test method criteria

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2013)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.9

Sample ID	Analytical	MW-14		MW-15		MW-16		MW-17		MW-18		MW-19		MW-20		MW-21		MW-22		North Carolina 2L Groundwater	Gross Contamination Levels
Collection Date	Method	3/17/2013	10/8/2013	3/17/2013	10/8/2013	3/17/2013	10/8/2013	3/17/2013	10/8/2013	3/18/2013	10/9/2013	3/18/2013	10/8/2013	3/19/2013	10/8/2013	3/18/2013	10/8/2013	3/18/2013	10/9/2013	Quality Standards	for Groundwater
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																					
Acetone	8260B	< 25.0	< 10.0	11.5 J	< 10.0	< 25.0	< 10.0	< 25.0	< 10.0	< 25.0	<10.0	44.5	< 10.0	< 25.0	<10.0	< 25.0	<10.0	< 25.0	<10.0	6000	6000000
Acrolein	8260B	< 1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	< 1.6	<1.6	< 8.0*	<1.6	< 1.6	<1.6	< 1.6	<1.6	4	NE
Benzene	8260B	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	< 1.0	<0.25	1	5000
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	< 0.18	< 20.0*	<0.18	< 0.18	<0.18	< 6.0*	<0.18	0.6	NE
2-Butanone (MEK)	8260B	< 5.0	<0.96	< 5.0	<0.96	< 5.0	<0.96	< 5.0	<0.96	< 5.0	<0.96	4.0J	<0.96	34.1	<0.96	< 5.0	<0.96	< 5.0	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	<3.6	na	<3.6	na	<3.6	na	<3.6	na	**45.6J**	na	<3.6	na	**255**	na	**45.6J**	na	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	<0.41	< 1.0	<0.41	< 1.0	<0.41	< 1.0	<0.41	< 1.0	<0.41	< 1.0	<0.41	7.0	5.5	< 1.0	<0.41	< 1.0	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	<0.38	< 1.0	<0.38	< 1.0	<0.38	< 1.0	<0.38	< 1.0	<0.38	< 1.0	<0.38	11.7	9.1	< 1.0	<0.38	< 1.0	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	3.2 J	2.6J	< 1.0	<0.40	< 1.0	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	50	50000
Chloroform	8260B	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	< 1.0	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	< 1.0	<0.35	100	NE
Dibromochloromethane	8260B	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	< 0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	1000	14000
1,2-Dichloroethane	8260B	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	< 0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	<0.19	< 1.0	<0.19	< 1.0	<0.19	< 1.0	<0.19	1.1	1	< 1.0	<0.19	< 1.0	<0.19	< 1.0	<0.19	< 1.0	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	< 1.0	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	<0.12	< 1.0	0.13J	< 1.0	<0.12	< 1.0	<0.12	< 1.0	0.14J	< 1.0	<0.12	< 1.0	<0.12	< 1.0	<0.12	< 1.0	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	<0.30	< 1.0	<0.30	< 1.0	<0.30	< 1.0	<0.30	< 1.0	<0.30	< 1.0	<0.30	10.1	6.2	< 1.0	<0.30	< 1.0	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	< 1.0	<0.40	21.8	17	< 1.0	<0.40	< 1.0	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	3.2	<0.31	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	25	11700
Methylene Chloride	8260B	< 2.0	<0.97	< 2.0	<0.97	< 2.0	<0.97	< 2.0	<0.97	< 2.0	<0.97	1.6J	<0.97	6.7J	**73.8**	< 2.0	<0.97	< 2.0	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	< 5.0	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	0.27J	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	< 1.0	<0.21	20	20000
Naphthalene	8260B	< 1.0	<0.24	< 1.0	<0.24	< 1.0	<0.24	< 1.0	<0.24	0.44J	0.35J	0.61J	<0.24	**495**	**520**	< 1.0	0.50J	< 1.0	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	<0.42	< 1.0	<0.42	< 1.0	<0.42	< 1.0	<0.42	< 1.0	<0.42	< 1.0	<0.42	30.8	26.2	< 1.0	<0.42	< 1.0	<0.42	70	30000
Styrene	8260B	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 5.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	70	70000
1,1,2,2-Tetrachloroethane	8260B	< 0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	**48.3**	**117**	< 0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40*	< 0.40*	<0.40	0.2	200
Tetrachloroethene (PCE)	8260B	< 0.46*	<0.46	< 0.46*	<0.46	< 0.46*	<0.46	< 0.46*	<0.46	< 0.46*	**0.97J**	< 0.46*	<0.46	< 0.46*	<0.46	< 0.46*	<0.46	< 0.46*	<0.46	0.7	700
Toluene	8260B	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	< 1.0	<0.26	0.59J	0.32J	< 1.0	<0.26	< 1.0	0.32J	< 1.0	<0.26	600	260000
1,1,2-Trichloroethane	8260B	< 1.0	<0.29	< 1.0	<0.29	< 1.0	<0.29	< 1.0	<0.29	0.36J	**1.1**	< 1.0	<0.29	< 1.0	<0.29	< 1.0	<0.29	< 1.0	<0.29	0.6	NE
Trichloroethene (TCE)	8260B	< 1.0	<0.47	< 1.0	<0.47	< 1.0	<0.47	< 1.0	<0.47	**7.3**	**23.4**	< 1.0	<0.47	< 1.0	<0.47	< 1.0	<0.47	< 1.0	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	<0.090	na	<0.090	na	<0.090	na	<0.090	na	<0.090	na	<0.090	na	<0.090	na	<0.090	na	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	< 1.0	<0.31	0.33 J	<0.31	1.3	<0.31	45.2	36.8	< 1.0	<0.31	< 1.0	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	<0.36	< 1.0	<0.36	< 1.0	<0.36	< 1.0	<0.36	< 1.0	<0.36	0.41 J	<0.36	< 5.0	7.8	< 1.0	<0.36	< 1.0	<0.36	400	25000
Vinyl chloride	8260B	< 0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62	< 0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62*	< 0.62*	<0.62	0.03	30
m&p-Xylene	8260B	< 2.0	<0.66	< 2.0	<0.66	< 2.0	<0.66	< 2.0	<0.66	< 2.0	<0.66	0.89J	<0.66	7.6J	3.9J	< 2.0	<0.66	< 2.0	<0.66	500	85500
o-Xylene	8260B	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	0.33J	<0.23	< 1.0	<0.23	< 1.0	<0.23	< 1.0	<0.23	500	85500
Xylenes - Total	8260B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total TICs	8260B	0	NT	0	NT	0	NT	0	NT	0	NT	0	NT	742.7	NT	0	NT	0	NT	NE	NE
Total VOCs	8260B	0	0.00	11.5	0.13	0	0.00	0	0.00	57.83	189.83	57.43	0.32	1415.9	963.90	0	46.1	0	0	NA	NA
Total BTEX	8260B	0	0	0	0	0	0	0	0	0	0	1.81	0.32	17.7	10.1	0	0	0	0	NA	NA
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																					
Acenaphthene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																					
Antimony	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																					
Mercury	7471	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater.
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

PWS = Private Water Supply Well Sample
DW-2 = Type III Well (Well Identified on Well Construction Record as DMW-1; however has always been refered to as DW-2 since installation)
D/DUP = Duplicate Sample
RB = Rinse TB = Trip Blank
FB = Field Blank
MW-1 (X)** = Off-site Well associated with petroleum Release Incident #5738

TABLE 4 (CONTINUED)

GROUNDWATER ANALYTICAL RESULTS (2007 - 2013)
R.D. PATE ESTATE
SITE ID: NONCD0002795
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.9

Sample ID	Analytical Method	MW-1D	RB-MW-11	TB-1	TB-2	TB-4	MW-15 DUP	MW-21 DUP	TRIP BLANK	TRIP BLANK 2	EQUIP RINSE BLANK	EQUIP RINSE BLANK 2	FIELD RINSATE BLANK (MW-1X)	MW-13 DUP	MW-16 DUP	TB-1	TB-2	RB-1	RB-2	FB-1	FB-2	North Carolina 2L Groundwater Quality Standards	Gross Contamination Levels for Groundwater
Collection Date		4/5/2011	3/31/2011	4/6/2011	4/6/2011	4/1/2011	3/17/2013	3/18/2013	3/16/2013	3/18/2013	3/15/2013	3/16/2013	3/18/2013	10/9/2013	10/8/2013	10/8/2013	10/9/2013	10/8/2013	10/9/2013	10/8/2013	10/9/2013		
Volatile Organic Compounds (VOCs) by EPA Method 8260B Plus TICs																							
Acetone	8260B	< 25.0	5.2 J	11.7 J	16.4 J	13.4 J	10.4 J	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	<10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	6000	6000000
Acrolein	8260B	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	4	NE
Benzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1	5000
Bromodichloromethane	8260B	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	<0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.6	NE
2-Butanone (MEK)	8260B	< 5.0	< 5.0	5.3	6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	<0.96	4000	4000000
tert-Butyl Alcohol	8260B	na	na	na	na	na	na	na	na	na	na	na	na	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	10	10000
n-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	70	6900
sec-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	70	8500
tert-Butylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	70	15000
Chlorobenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	50	50000
Chloroform	8260B	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	70	70000
2-Chlorotoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	100	NE
Dibromochloromethane	8260B	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.4	400
Dichlorodifluoromethane	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	1000	14000
1,2-Dichloroethane	8260B	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.4	400
cis-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	70	70000
trans-1,2-Dichloroethene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	100	100000
Diisopropyl ether	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	70	70000
Ethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	600	84500
Isopropylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	70	25000
p-Isopropyltoluene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	25	11700
Methylene Chloride	8260B	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.9J	1.5J	< 2.0	< 2.0	< 2.0	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	5	5000
4-Methyl-2-pentanone (MIBK)	8260B	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	100	NE
Methyl tert-butyl ether (MTBE)	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	20	20000
Naphthalene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	6	6000
n-Propylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	70	30000
Styrene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	70	70000
1,1,2,2-Tetrachloroethane	8260B	**4.7**	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	< 0.40*	**91.3**	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	<0.40*	0.2	200
Tetrachloroethene (PCE)	8260B	< 0.46	< 0.46*	< 0.46*	< 0.46*	< 0.46*	< 0.46*	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	<0.46*	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	0.7	700
Toluene	8260B	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.26	<0.26	<0.26	<0.26	<0.26	0.60J	<0.26	0.65J	600	260000
1,1,2-Trichloroethane	8260B	< 0.29	< 1.0	< 0.29	< 0.29	< 0.29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**0.88J**	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	0.6	NE
Trichloroethene (TCE)	8260B	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11.2**	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	3	3000
1,2,3-Trimethylbenzene	8260B	na	na	na	na	na	na	na	na	na	na	na	na	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	NE	NE
1,2,4-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	400	28500
1,3,5-Trimethylbenzene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	400	25000
Vinyl chloride	8260B	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	< 0.62*	<0.62	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	<0.62*	0.03	30
m&p-Xylene	8260B	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	500	85500
o-Xylene	8260B	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<0.66	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	500	85500
Total TICs	8260B	0	0	0	0	0	0	0	0	0	0	0	0	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Total VOCs	8260B	6.0	5.62	17.0	22.76	13.4	10.4	0	1.9	1.5	0	0	0	104.58	0.00	0.00	0.00	0.00	0.60	0.00	0.65	NA	NA
Total BTEX	8260B	0	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.65	NA	NA
Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270 Plus TICs																							
Acenaphthene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	80	2120
Benzyl Alcohol	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	700	700000
bis(2-Ethylhexyl)phthalate	8270	< 0.89	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	3	170
Dibenzofuran	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	28	28000
Fluorene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	300	990
1-Methylnaphthalene	8270	< 0.36	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
2-Methylnaphthalene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	12500
2-Methylphenol	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	400	400000
Naphthalene	8270	< 0.38	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	6	6000
Phenanthrene	8270	< 11.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	200	410
Total TICs	8270	51.77	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NE	NE
Totals Metals by EPA Method 6010B																							
Antimony	6010	< 2.6*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE
Arsenic	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	NE
Beryllium	6010	< 1.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	4	NE
Cadmium	6010	< 0.50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2	NE
Chromium	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	10	10000
Copper	6010	4.7 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Lead	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	15	15000
Manganese	6010	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	50	NE
Nickel	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	100	NE
Selenium	6010	< 10.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	NE
Silver	6010	< 5.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	20	20000
Thallium	6010	< 5.0*	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.2	NE
Zinc	6010	175	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1000	NE
Mercury by EPA Method 7471																							
Mercury	7471	<0.20	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1	NE

Notes:
All concentrations are reported in micrograms per liter (ug/L).
ft, bgs - feet below ground surface
NE - Not Established
NT - Not Tested
ND - Not Detected
NA - Not Applicable
Bold results exceed NCAC 2L Standards.
Bold results exceed Gross Contamination Levels (GCLs) for Groundwater
"J" value indicates an estimated concentration exceeding the laboratory method detection limit and below the laboratory reporting limit.
* Laboratory reporting limit and/or method detection limit exceeds the NCAC 2L Groundwater Standard
2/19/2013 Sampling event was for screening purposes only. Samples not collected according to RI Workplan

D/DUP = Duplicate Sample
RB = Rinse Blank
TB = Trip Blank
FB = Field Blank
na - not analyzed by laboratory based on test method criteria

FIGURES

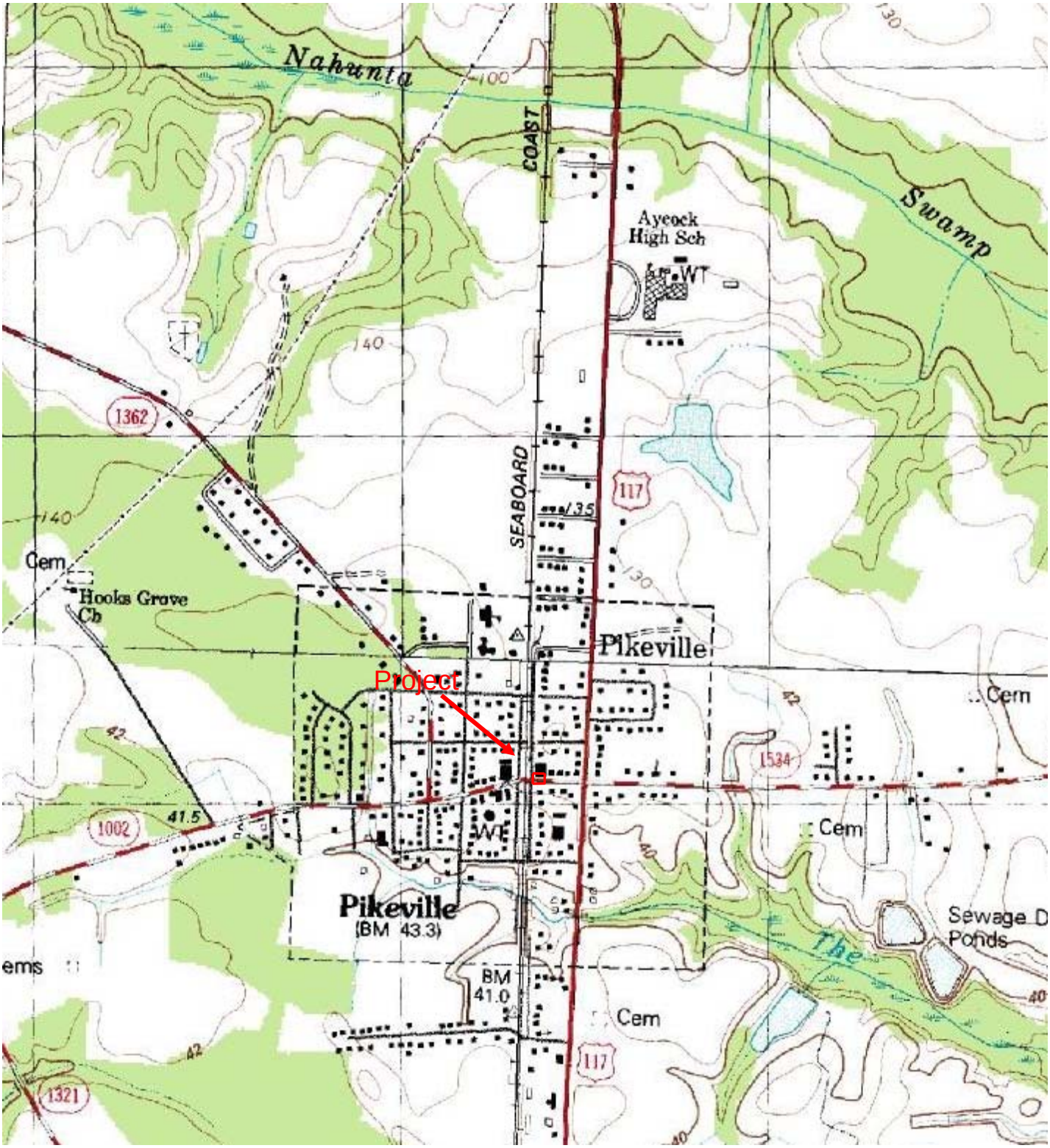

Figure 1 – Site Location Map

Source: USGS 7.5 Minute Topographic Map Pikeville North Carolina Quadrangle 1988

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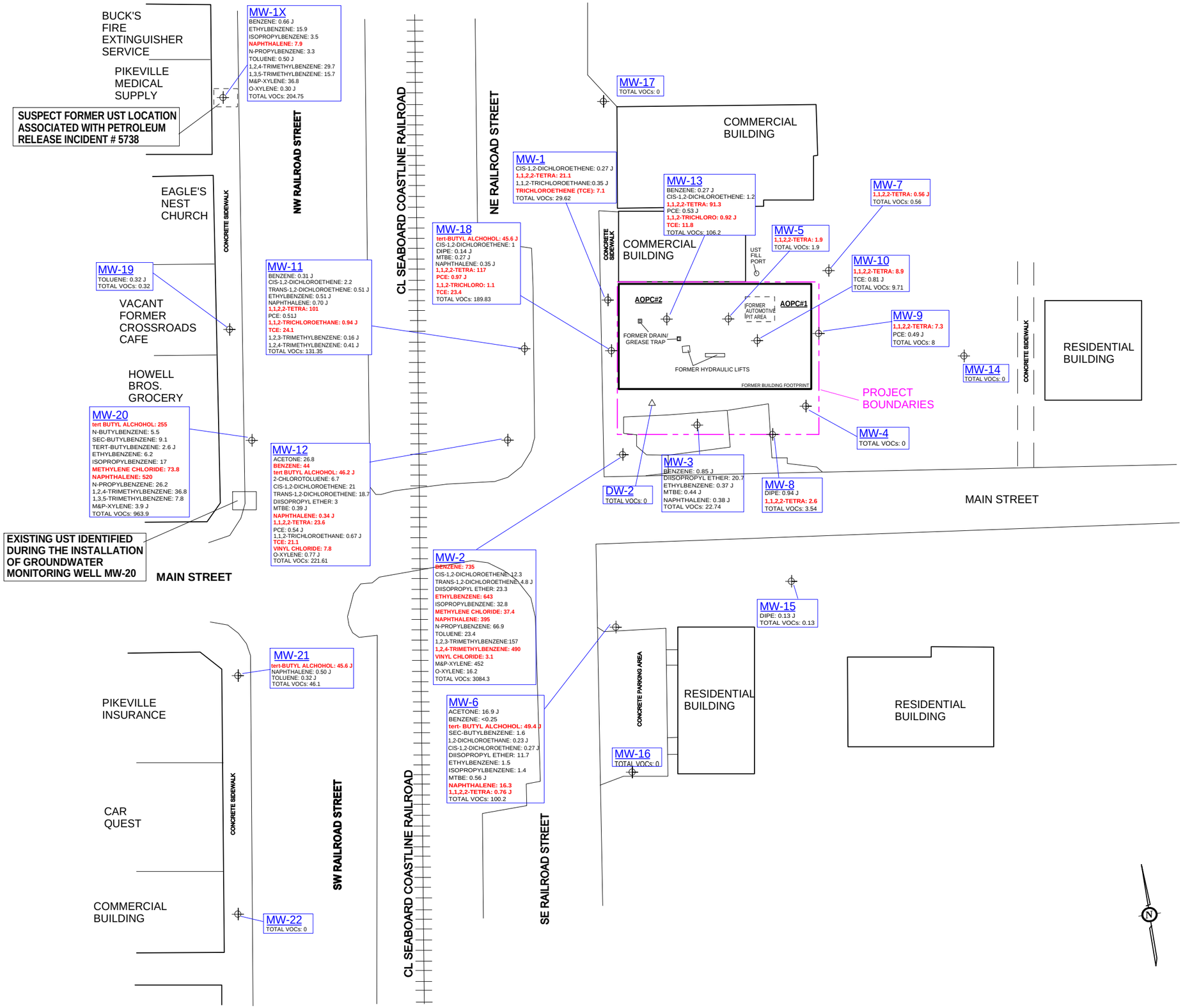
N

Site Name: **R.D. Pate Estate**
101 East Main Street
Pikeville, North Carolina

BB&T Project Number: ESA071433
EA Project Number: 07-7019.1



GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2013

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.9

FIGURE: 2 | DATE: NOVEMBER 2013

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LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

DIPE	DIISOPROPYL ETHER
1,1,2,2-TETRA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

0 40 80

Scale: 1"=40'

1,1,2,2-TETRACHLOROETHANE GROUNDWATER ISOCONCENTRATION MAP OCTOBER 2013

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.9

FIGURE: 3 | DATE: NOVEMBER 2013

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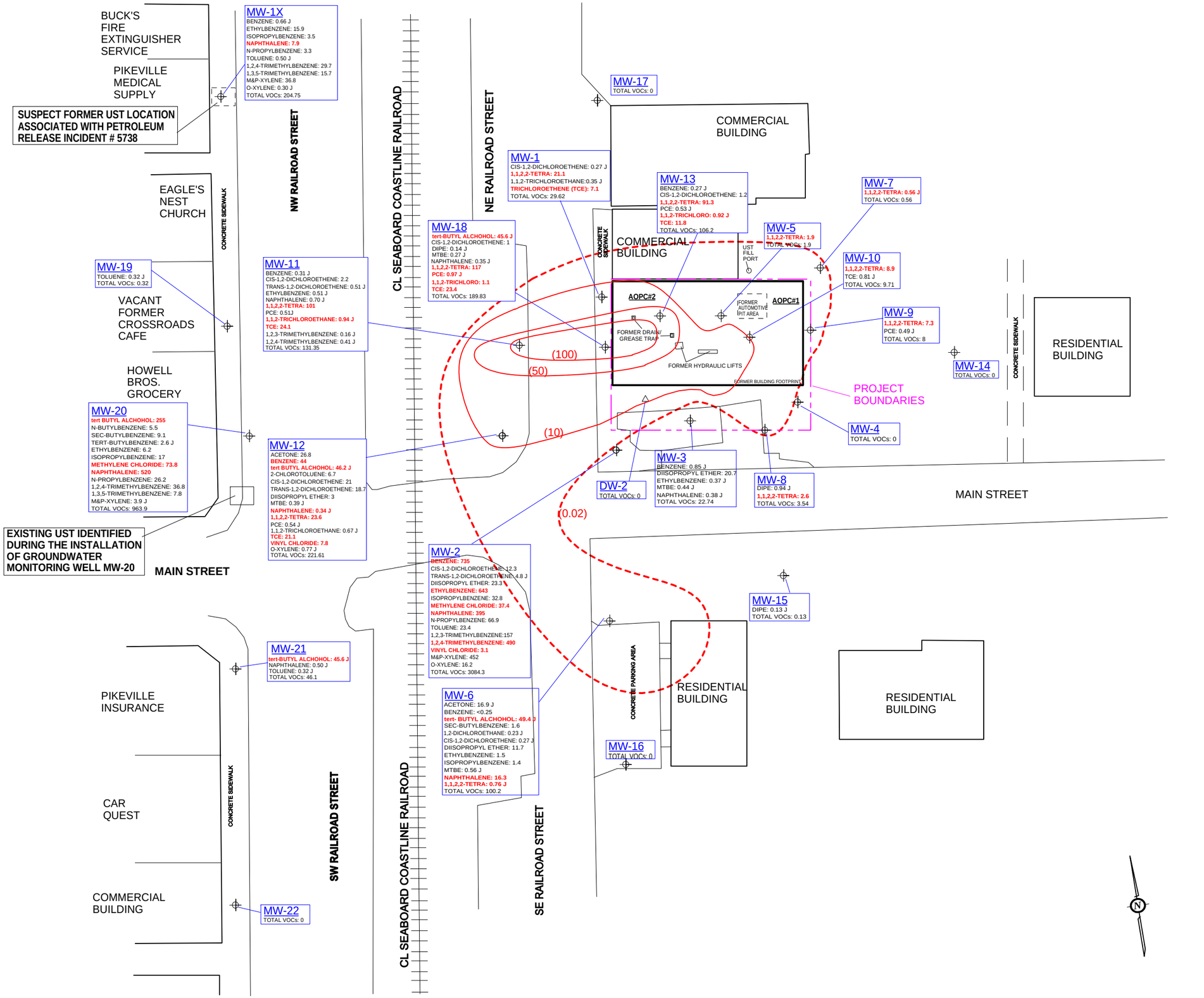

LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

DIPE	DIISOPROPYL ETHER
1,1,2,2-TETRA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

(100) 1,1,2,2-TETRACHLOROETHANE ISOCONCENTRATION LINE

0 40 80

Scale: 1"=40'

TRICHLOROETHENE (TCE) GROUNDWATER ISOCONCENTRATION MAP OCTOBER 2013

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.9

FIGURE: 4 | DATE: NOVEMBER 2013

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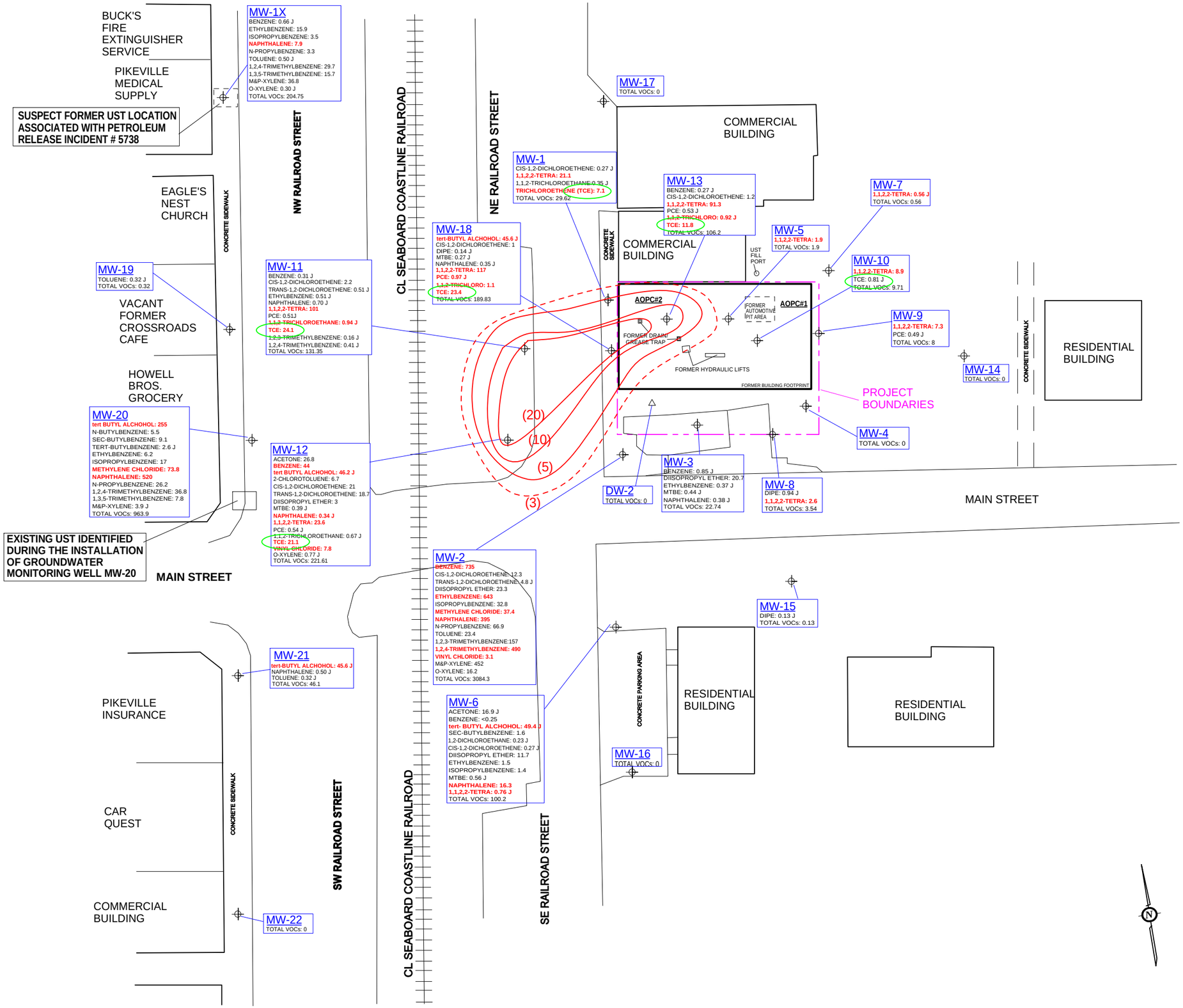

LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

DIPE	DIISOPROPYL ETHER
1,1,2,2-TETRA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

(20) TRICHLOROETHENE (TCE) ISOCONCENTRATION LINE

0 40 80

Scale: 1"=40'

TOTAL VOCs
GROUNDWATER ISOCONCENTRATION MAP
OCTOBER 2013

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.9

FIGURE: 5 | DATE: NOVEMBER 2013

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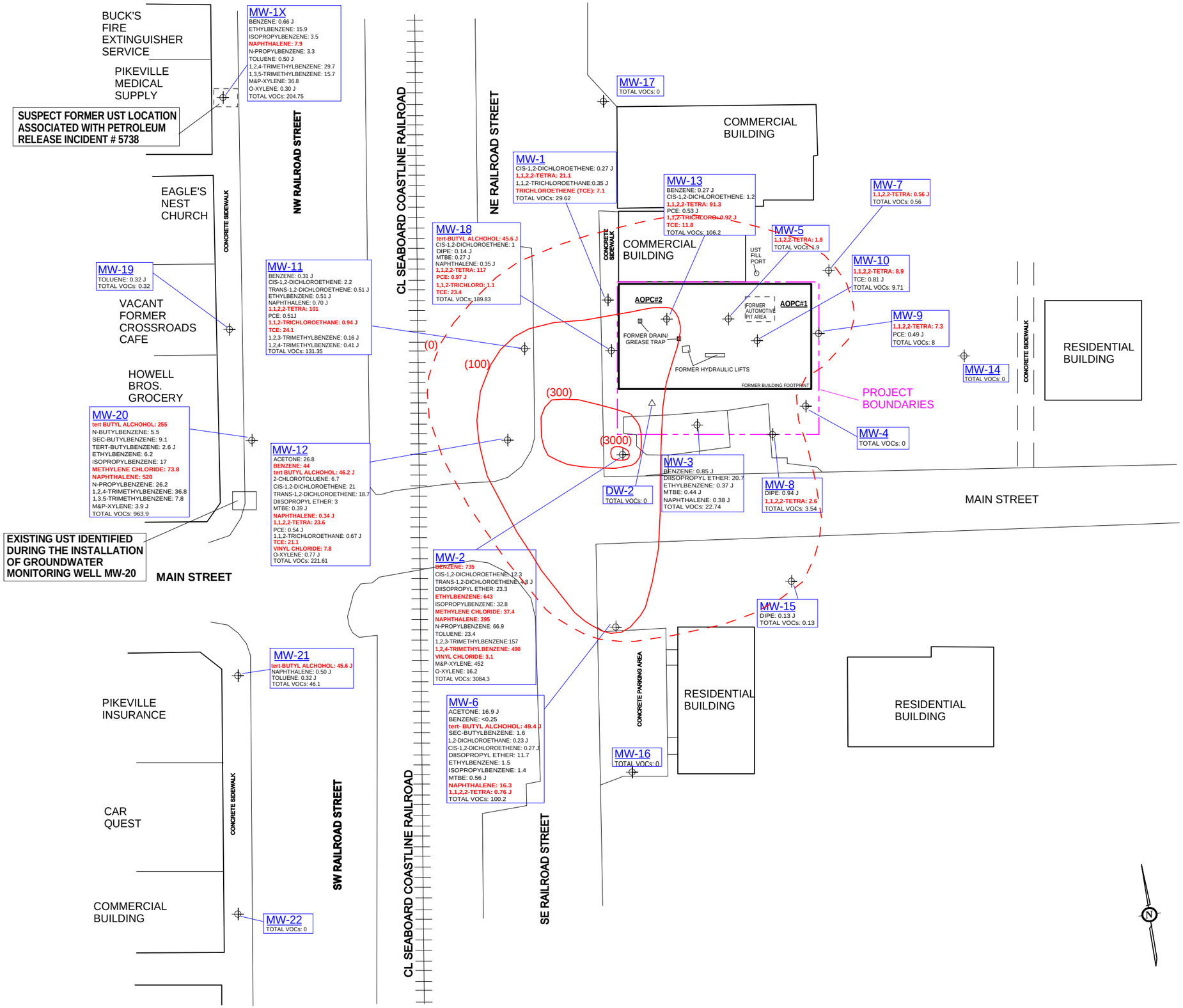

LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP

DIPE	DIISOPROPYL ETHER
1,1,2,2-TETRA	1,1,2,2-TETRACHLOROETHANE
1,1,2-TRICHLORO	1,1,2-TRICHLOROETHANE
TCE	TRICHLOROETHENE
PCE	TETRACHLOROETHENE
MTBE	METHYL TERT-BUTYL ETHER

< MDLs = ALL TARGET ANALYTE CONCENTRATIONS ARE LESS THAN LABORATORY METHOD DETECTION LIMITS (MDLs)

ALL GROUNDWATER CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

BOLD RESULTS EXCEED NCAC 2L GROUNDWATER STANDARDS

J = ESTIMATED CONCENTRATION EXCEEDING LABORATORY METHOD DETECTION LIMITS AND BELOW LABORATORY REPORTING LIMITS.

(100) TOTAL VOC ISOCONCENTRATION LINE

0 40 80

Scale: 1"=40'

POTENTIOMETRIC CONTOUR MAP
OCTOBER 2013

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, NORTH CAROLINA
EA PROJECT NUMBER 07-7019.9

FIGURE: 6 | DATE: NOVEMBER 2013

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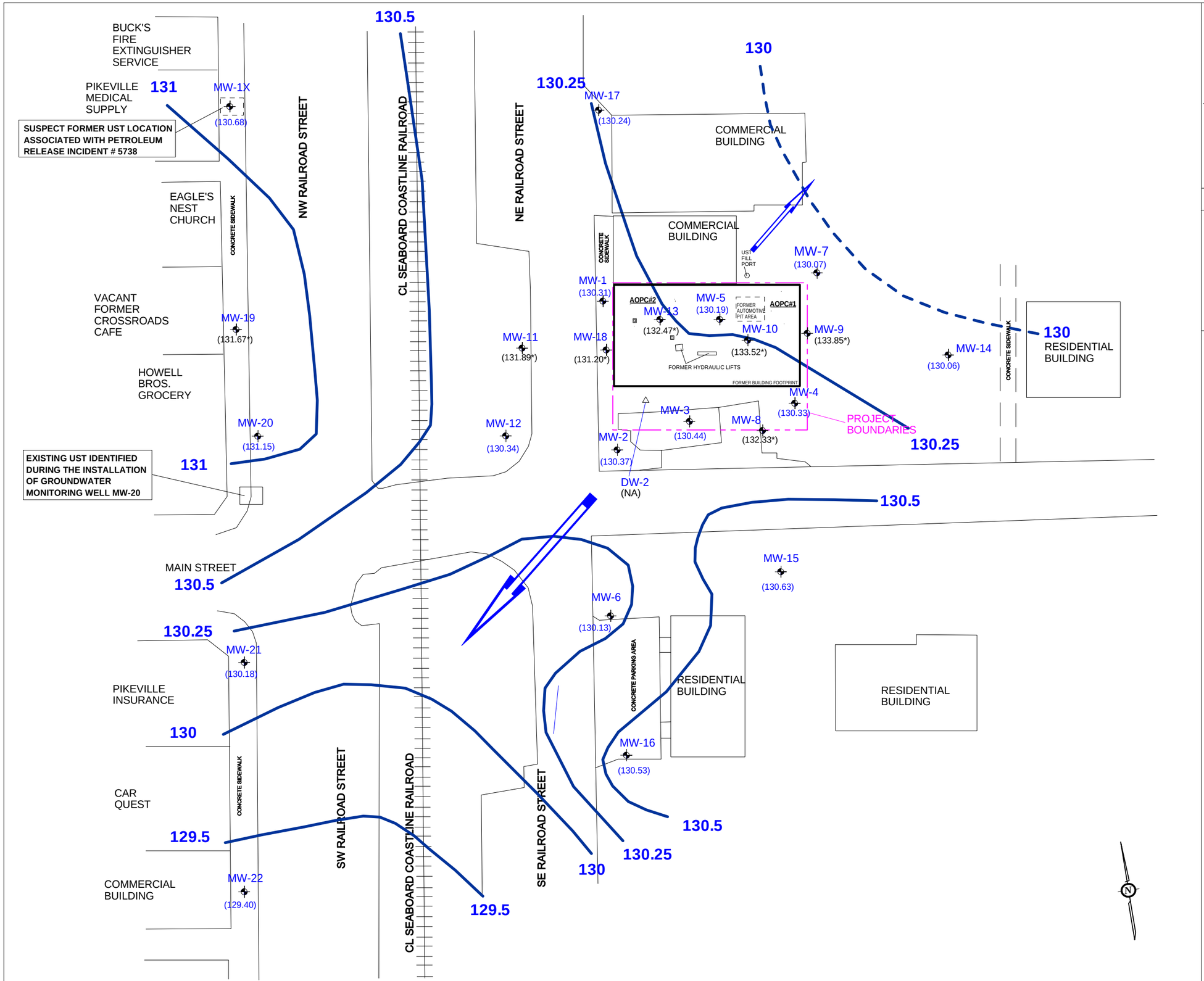


LEGEND

- TYPE II GROUNDWATER MONITORING WELL LOCATION
- TYPE III GROUNDWATER MONITORING WELL LOCATION
- FORMER DRAIN/GREASE TRAP
- (132.71) GROUNDWATER ELEVATON 10-8-2013)
- 132.00 POTENTIOMETRIC CONTOUR LINE
- SHALLOW GROUNDWATER FLOW DIRECTION

*MW-8, MW-9, MW-10, MW-11, MW-13, MW-18, MW-19 & DW-2 NOT USED FOR CONTOURING PURPOSES DUE TO OUTLIERS, SLOW GROUNDWATER RECHARGE AND/OR WELLS ARE NOT SCREENED IN THE PERMEABLE SHALLOW WATER TABLE AQUIFER.

0 40 80

Scale: 1"=40'

APPENDICES

APPENDIX A

MODELING INFORMATION, PARAMETERS FOR NATURAL ATTENUATION SCREENING, AND MNA SCORING (SCREEN FOR ANAEROBIC DEGRADATION)

APPENDIX A - TABLE 1

INPUT FACTORS FOR BIOCHLOR MODEL

R. D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS PROJECT NO. 07-7019.9
SITE ID: NONCD0002795

Data Type	Parameter	Average								Units	Source of Data
Hydrogeology	Hydraulic Conductivity (K)	1.1E-03								cm/sec	RI Report
	Hydraulic Gradient (i)	0.01								ft/ft	
	Porosity (n)	0.25								unitless	
	Seepage Velocity	46								ft/yr	
Dispersion	Longitudinal Dispersivity	18								ft	10% of Plume Length
	Transverse Dispersivity	1.8								ft	0.1 x Longitudinal Dispersivity
	Vertical Dispersivity	1.0E-99								ft	BIOCHLOR Users Manual common defaults
Adsorption	Retardation Factor (R)	calculated by model								unitless	Calculated by Model
	Soil Bulk Density	1.7								kg/L	BIOCHLOR Users Manual common defaults
	Fraction of Organic Carbon (foc)	0.001								unitless	
	Koc										
	PCE	426								L/kg	
	TCE	130								L/kg	
	1,1,2,2-TCA	240									
	cis-1,2-DCE	125								L/kg	
	VC	29.6								L/kg	
Biotransformation	*Initial Half-life*										BIOCHLOR Users Manual common defaults
	PCE	9.9								yrs	
	TCE	13.9								yrs	
	cis-1,2-DCE	3.9								yrs	
	1,1,2,2-TCA	0.93								yrs	
	1,1,2-TCA	1.04								yrs	
	VC	5.8								yrs	
	Final Half-life										Trial and error based on existing data
	PCE	4.95								yrs	
	TCE	6.95								yrs	
	cis-1,2-DCE	1.8								yrs	
	1,1,2,2-TCA	0.93								yrs	
	1,1,2-TCA	1.04								yrs	
	VC	2.9								yrs	
General	Modeled Area Length	180								ft	Length of plume - RI Report
	Modeled Area Width	160								ft	Width of plume - RI Report
	Simulation Time	50								yrs	Assumption based on Site history
Source Data	Source Thickness	40								ft	Assumption
	Source Width	60								ft	Width of plume - RI Report
	Initial Source Concentration										Maximum detected concentration
	TCE	0.029								mg/L	
	1,1,2,2-TCA	0.24								mg/L	
	Final Source Concentration										Trial and error based on existing data
	TCE	0.058								mg/L	
	1,1,2,2-TCA	0.24								mg/L	
Actual Data	Distance from Source (AOC#2)		0	25	25	25	60	80	230	ft	RI Report
	Concentration @ Well ID		*MW-13*	*MW-18*	*MW-1*	*MW-2*	*MW-11*	*MW-12*	*MW-21*		
	PCE Concentration		0	0	0	0	0.00069	0	0	mg/L	
	TCE Concentration		0.0144	0.0073	0.0046	0	0.0291	0.0084	0	mg/L	
	1,1,2,2-TCA Concentration		0.121	0.0483	0.0159	0	0.152	0.0149	0	mg/L	
	1,1,2-TCA Concentration		0.0011	0.00036	0.00032	0	0.001	0	0	mg/L	
	cis-1,2-DCE		0.0011	0.001	0.00022	0.0223	0.0019	0.0066	0	mg/L	
	VC Concentration		0	0	0	0.0013	0	0.0042	0	mg/L	
	ETH Concentration		0	0	0	0	0	0	0	mg/L	

APPENDIX A - TABLE 2

PARAMETERS FOR NATURAL ATTENUATION SCREENING

R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS PROJECT NO. 07-7019.9
SITE ID: NONCD0002795

Analysis	Concentration in Most Contaminated Zone	Interpretation
Oxygen	<0.5 mg/L	Tolerated, suppresses the reductive pathway at higher concentrations
	> 5mg/L	Not tolerated; however, VC may be oxidized aerobically
Nitrate	<1 mg/L	At higher concentrations may compete with reductive pathway
Iron II	>1 mg/L	Reductive pathway possible; VC may be oxidized under Fe(III)-reducing conditions
Sulfate	<20 mg/L	At higher concentrations may compete with reductive pathway
Sulfide	>1 mg/L	Reductive pathway possible
Methane	>0.5 mg/L	Ultimate reductive daughter product, VC Accumulates
Oxidation Potential (ORP)	<50 millivolts (mV)	Reductive pathway possible
	<-100mV	Reductive pathway likely
pH	5 < pH < 9	Optimal range for reductive pathway
TOC	>20 mg/L	Carbon and energy source; drives dechlorination; can be natural or anthropogenic
Temperature	>20°C	At T >20°C biochemical process is accelerated
Carbon Dioxide	>2x background	Ultimate oxidative daughter product
Alkalinity	>2x background	Results from interaction of carbon dioxide with aquifer minerals
Chloride	>2x background	Daughter product of organic chlorine
Hydrogen	>1 nM	Reductive pathway possible, VC may accumulate
Volatile Fatty Acids	>0.1 mg/L	Intermediates resulting from biodegradation of aromatic compounds; carbon and energy source
BTEX	>0.1 mg/L	Carbon and energy source; drives dechlorination
PCE		Material released
1,1,2,2-Tetrachloroethane		Material released
TCE		Daughter product of PCE or 1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane		Daughter product of 1,1,2,2-Tetrachloroethane
DCE		Daughter product of TCE If cis is greater than 80% of total DCE it is likely a daughter
VC		Daughter product of DCE
Ethene		Daughter product of VC/ethene

Notes:
Table adapted from BIOCHLOR model.

APPENDIX A - TABLE 3

PRELIMINARY MNA SCORING (SCREEN FOR ANAEROBIC DEGRADATION)
MARCH 2013
R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS, PLLC PROJECT NO. 07-7019.7
SITE ID: NONCD0002795

Parameter	USEPA Value		Upgradient	Source	Source	Downgradient	Downgradient
	Value	Score	MW-7	MW-1	MW-12	MW-6	MW-22
DO (mg/L)	<0.5	3					
	>5	-3					
pH (su)	5-9	0	0	0	0	0	
	<5/>9	-2					-2
ORP (mV)	<50	1	1		1		0
	<-100	2		2		2	
Fe^{2+} (mg/L)	>1	3	0	0	3	3	0
NO_3 (mg/L)	<1	2	2	0	2	2	0
SO_4 (mg/L)	<20	2	0	0	2	2	0
CH_4 (mg/L)	<0.5	0	0	0			0
	>0.5	3			3	3	
CO2	>2X Background	2	0	0	2	0	0
Temp (^oC)	>20^oC	1	0	0	0	0	0
Total			3	2	13	12	-2
TCE (mg/L)	DP	2	0	2	2	0	0
cis-1,2-DCE (mg/L)	DP	2	0	2	2	0	0
1,1,2-Trichloroethane	DP	2	0	2	2	0	0
Vinyl chloride	DP	2	0	0	2	0	0
Totals		8	3	8	21	12	-2

DP - Daughter products

APPENDIX A - TABLE 3a

SUBSEQUENT MNA SCORING (SCREEN FOR ANAEROBIC DEGRADATION)
OCTOBER 2013
R.D. PATE ESTATE
101 EAST MAIN STREET
PIKEVILLE, WAYNE COUNTY, NORTH CAROLINA
ENVIROASSESSMENTS PROJECT NO. 07-7019.9
SITE ID: NONCD0002795

Parameter	USEPA Value		Upgradient	Source	Source	Downgradient	Downgradient
	Value	Score	MW-7	MW-1	MW-12	MW-6	MW-22
DO (mg/L)	<0.5	3	3	2	2	3	1
	>5	-3					
pH (su)	5-9	0	0	0	0	0	
	<5/>9	-2					-2
ORP (mV)	<50	1	0	0	1	1	0
	<-100	2					
Fe^{2+} (mg/L)	>1	3	0	0	3	3	0
NO_3 (mg/L)	<1	2	2	0	2	2	0
SO_4 (mg/L)	<20	2	0	1	2	2	1
CH_4 (mg/L)	<0.5	0	0	0			0
	>0.5	3			3	3	
CO2	>2X Background	2	0	0	2	2	0
Temp (^oC)	>20^oC	1	1	1	1	1	1
Total			6	4	16	17	1
TCE (mg/L)	DP	2	0	2	2	0	0
cis-1,2-DCE (mg/L)	DP	2	0	2	2	2	0
1,1,2-Trichloroethane	DP	2	0	2	2	0	0
Vinyl chloride	DP	2	0	0	2	0	0
Totals		8	6	10	24	19	1

DP - Daughter products

APPENDIX B

FIELD DATA SHEETS

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-1	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: (13:12)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
12:49	5.82	24.0	189.6	232.6	10.4	5.55	92.30	0.90	
12:54	6.11	25.1	191.4	245.8	6.0	5.55	61.31	0.49	
12:59	6.21	25.3	189.4	247.0	5.5	5.54	28.76	0.45	
13:04	6.24	25.4	186.6	247.3	6.8	5.53	13.54	0.57	
13:09	6.29	25.4	185.5	247.8	7.2	5.51	6.78	0.59	

Notes:

Flow Rate: 160ml/min

Fe: 0.2 mg/L

CO_2: 136 mg/L

Samples Collected: VOCs, TOC, Methane/Ethane/Ethene, Sulfate, Nitrite, Nitrate, Nitrite, Nitrate

No visual or olfactory evidence of impact.

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-2	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: (09:12)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
08:45	5.05	24.8	264.1	8.4	12.2	6.08	4.94	0.93	
08:50	5.61	25.5	262.4	-20.8	5.1	6.06	4.83	0.42	
08:55	5.87	25.9	261.9	-26.5	4.2	6.05	3.72	0.34	
09:00	6.16	25.9	262.3	-28.5	3.6	6.06	1.95	0.29	
09:05	6.33	25.9	265.3	-30.2	3.4	6.07	1.75	0.28	
09:10	6.54	26.0	272.5	-33.4	3.0	6.09	0.01	0.25	

Notes:

Flow Rate: 180 ml/min

Strong petro odor @ initial purge. Petro odor Consistent throughout the purge process. Visible sheen on the surface of the purge water.

Collected 3 VOAs for 8260 analysis.

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-3	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1540

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1515	5.28								
1520	5.43	23.1	370.4	10.8	9.2	6.45	27.30	0.81	
1525	5.58	23.6	373.1	2.4	5.6	6.46	14.82	0.48	
1530	5.72	23.7	374.2	-1.7	4.2	6.46	6.65	0.35	
1535	5.89	23.9	374.3	-4.9	4.2	6.46	6.17	0.35	
1540	5.99	23.8	372.4	-4.9	3.6	6.46	8.18	0.32	

Notes: Flow rate = 92 ml/min

Sampled @ 1540

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-4	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 16:18

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/l	Total Disolved Solids (g/L)
15:55	5.38	22.7	75.9	77.9	13.5	5.93	328.6	1.10	
16:00	5.66	22.9	78.4	77.5	6.8	5.81	188.9	0.57	
16:05	5.92	23.2	78.2	89.5	6.0	5.81	130.6	0.50	
16:10	6.18	23.5	78.5	106.0	7.8	5.83	94.60	0.68	
16:15	6.24	23.4	79.0	111.1	10.1	5.84	90.82	0.86	

Notes:

Flow Rate: 144 ml/min

No visual or olfactory evidence of impact

Collected 3 VOAs for 8260.

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-5	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1725

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
~~1430~~									
1655	6.12								
1700	6.35	22.8	344.2	265.2	12.0	4.93	431.0	1.00	
1705	6.37	23.3	378.2	261.2	7.5	5.05	243.5	0.63	
1710	6.37	23.4	400.5	256.7	6.0	5.13	189.8	0.51	
1715	6.37	23.5	416.5	253.9	4.6	5.18	98.77	0.39	
1720	6.38	23.6	420.8	252.7	4.1	5.19	67.92	0.35	
1725	6.38	23.6	422.5	252.2	4.4	5.20	39.18	0.37	

Notes:

Flow rate = 152 ml/min

Sampled @ 1725

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW - 6	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1130

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1100	5.13								
1105	5.30								
1110	5.25	22.5	130.1	80.2	22.0	5.23	247.1	19.1	~~19.1~~
1115	5.27	22.5	145.5	20.8	8.8	5.25	98.67	0.76	
1120	5.27	22.6	145.9	8.4	7.3	5.27	48.29	0.63	
1125	5.27	22.7	144.6	-2.6	5.8	5.27	17.21	0.50	
1130	5.25	22.5	144.3	-13.8	6.8	5.28	11.32	0.58	

Notes: Flow rate = 56 ml/min

Sampled @ 1130

CO_2 = 219 mg/L Fe^{+2} = 1.1 mg/L

Petroleum odor

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-7	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 11:40

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ Dorm 2/L	Total Disolved Solids (g/L)
11:08	6.68	22.0	132.0	253.2	15.2	5.15	199.5	1.23	
11:13	6.74	22.2	133.1	264.3	8.3	5.15	78.67	0.71	
11:18	6.75	22.2	134.0	268.2	6.4	5.17	47.50	0.55	
11:23	6.76	22.3	132.5	270.3	5.3	5.19	37.96	0.45	
11:28	6.77	22.4	129.0	267.2	4.5	5.24	34.45	0.39	
11:33	6.77	22.4	127.7	257.8	4.0	5.25	38.59	0.34	
11:38	6.77	22.4	128.7	250.1	3.6	5.24	27.74	0.32	

Notes:

Flow Rate: 128 ml/min

No visual or olfactory evidence of impact.
Collected: 3 voas for 8260, 3 VOAs for TOC, Methane/Ethane/Ethene
sulfate, Nitrite, Nitrate, Nitrate : Nitrite

Fe = 0.4 mg/L

CO_2 = 132 mg/L

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-8	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 16:57

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
16:40	3.28	22.9	51.9	193.3	16.1	5.00	8.10	1.38	
16:45	11.31	23.8	54.4	189.6	23.1	5.15	0.00	1.99	
16:50	13.75	23.6	54.6	189.9	~~2.38~~	5.15	0.00	2.44	
16:55	18.18	22.3	65.7	210.3	18.5	4.59	12.64	1.58	
~~17:00~~									

Notes:

Flow Rate: 172 ml/min

No visual or olfactory evidence of impact

Collected samples for 8260 analysis

BH

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-9	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: (11:17)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	Salinity (%)	Total Disolved Solids (g/L)
10:57	3.96								
11:02	10.02	21.8	64.2	240.4	11.1	4.72	67.27		
11:07	14.61	21.8	64.6	254.3	12.4	4.79	90.89		
11:12	18.19	21.6	66.3	262.0	12.3	4.74	89.30		

Notes:

Flow Rate: 137 ml/min

No olfactory or visual evidence of impact.

Collected 3 voas for 8260 analysis.

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-10	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1635

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1610	2.61								
1615	4.40	23.5	78.9	225.9	19.2	5.00	22.76	1.19	
1620	6.63	21.5	79.1	238.0	9.2	4.90	27.30	0.80	
1625	8.48	21.6	79.2	240.2	10.5	4.96	25.57	0.91	
1630	9.65	21.3	79.2	238.3	10.8	4.99	20.63	0.96	
1635	10.52	21.2	79.4	238.4	11.2	5.02	18.46	1.00	

Notes: Flow rate = 36 ml/min

Sampled @ 1635

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-11	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: (10:02)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
09:46	4.26	21.8	47.9	214.6	11.2	5.19	16.99	0.92	
09:51	9.41	22.3	50.2	225.4	7.4	5.22	14.60	0.63	
09:56	13.17	22.5	53.8	227.7	7.1	5.33	10.35	0.62	
10:01	17.71	22.6	59.4	222.1	8.4	5.45	7.39	0.74	

Notes:

Flow Rate: 134 ml/min

No olfactory or visual evidence of contamination.

Collected 3 vocs for 8260 analysis

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-12	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1435

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1410	5.78								
1415	7.03	22.9	190.6	-26.9	9.6	5.63	12.31	0.83	
1420	7.57	22.6	216.4	-42.6	7.9	5.74	6.46	0.68	
1425	7.91	21.8	219.3	-51.7	8.5	5.77	8.61	0.74	
1430	8.18	21.9	220.1	-56.8	7.4	5.78	8.50	0.65	
1435	8.30	21.4	220.7	-59.5	7.6	5.79	9.04	0.67	

Notes:

Flow rate = 58 ml/min

Sampled @ 1435

CO_2 = 435 mg/L Fe^{+2} = 1.8 mg/L

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-13	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 0900 / 0905

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
0835	3.91								
0840	6.40	21.5	71.2	230.6	11.0	4.80	4.19	0.96	
0845	8.68	21.4	74.1	253.4	9.9	4.65	2.97	0.87	
0850	9.85	21.0	75.9	262.1	9.9	4.62	1.82	0.88	
0855	11.01	20.6	76.7	267.2	10.4	4.62	0.28	0.94	
0900	12.05	20.4	76.7	271.3	12.4	4.64	0.00	1.12	

Notes:

Flow rate = 28 ml/min

MW-13 Sampled @ 0900

MW-13 Dup Sampled @ 0905

Equip Rinsate Blank #2 (RB-2) collected @ 0930

Field Blank #2 (FB-2) collected @ 0915

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-14	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1030

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1010	6.27								
1015	6.85	23.0	179.0	271.1	10.2	4.85	110.1		
1020	7.20	23.2	158.6	268.3	4.4	4.78	47.43	0.39	
1025	7.19	23.1	157.6	266.5	4.3	4.77	17.48	0.36	
1030	7.20	23.1	159.1	261.7	4.3	4.74	94.52	0.36	

Notes: Flow rate = 83 ml/min Sampled @ 1030

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-15	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1145

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1120	5.18								
1125	6.05	23.0	115.7	208.5	10.9	5.02	5.03	0.93	
1130	7.12	22.8	97.9	222.3	6.7	4.99	151.2	0.58	
1135	7.96	22.8	122.8	237.6	5.6	4.81	0.21	0.48	
1140	8.56	22.7	139.5	243.8	4.7	4.77	0.19	0.40	
1145	9.02	22.7	138.3	244.1	4.7	4.76	0.20	0.40	

Notes:

Flow rate = 84 ml/min

Sampled @ 1145

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-16	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1305 / 1310

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1240	4.35								
1245	5.15	22.0	142.2	53.1	11.1	5.09	4.27	0.95	
1250	5.64	21.7	144.4	62.0	8.7	5.14	7.63	0.77	
1255	6.20	21.3	168.1	98.7	12.0	5.33	9.49	1.06	
1300	6.61	21.3	176.4	115.2	12.5	5.32	8.84	1.10	
1305	7.15	21.2	191.2	139.2	8.6	5.31	10.61	0.76	

Notes:

Flow rate = 48 ml/min

~~MW-16~~ MW-16 Sampled @ 1305

MW-16 Dup Sampled @ 1310

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-17	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 13:42

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
13:20	6.31	22.7	245.3	241.8	52.6	4.71	260.0	4.54	
13:25	6.46	22.9	242.0	246.4	50.2	4.70	825.5	4.32	
13:30	6.48	23.0	249.9	254.8	48.1	4.67	698.2	4.09	
13:35	6.49	23.0	265.9	269.1	50.6	4.43	782.9	4.36	
13:40	6.50	23.2	273.4	278.4	52.7	4.31	36.94	4.51	

Notes:

Flow Rate: 100 ml/min

* initial purge cloudy - cleared up quickly.
- no visual or olfactory evidence of impact
- collected 3 vocs for 8260 analysis

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-18	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1020

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (‰)~~ DO mg/L	Total Disolved Solids (g/L)
0945	5.70								
0950	6.03								
0955	6.44	24.1	351.4	220.0	9.3	5.91	5.22	0.78	
1000	7.02	23.8	352.6	213.5	8.7	5.94	2.80	0.73	
1005	7.22	23.2	375.4	208.0	8.9	6.01	1.32	0.76	
1010	7.50	23.0	397.7	201.0	11.1	6.13	0.18	0.95	
1015	7.79	22.7	408.0	198.8	10.1	6.14	0.50	0.87	
1020	8.03	22.5	421.1	197.0	9.6	6.15	0.00	0.83	

Notes:

Flow rate = 24 ml/min

Sampled @ 1020

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-19	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 12:59

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
12:37	4.11	24.3	150.2	59.8	12.1	5.43	23.88	1.00	
12:42	7.20	24.1	195.2	24.7	8.4	5.70	12.21	0.70	
12:47	8.01	24.1	216.9	22.5	6.6	5.78	6.70	0.54	
12:52	9.18	23.7	221.0	36.7	8.3	5.77	8.29	0.70	
12:57	10.19	24.1	180.8	31.3	10.0%	5.54	3.72	0.81	

Notes:

Flow Rate: 154 ml/min

-No visual or olfactory evidence of impact

-Collected 3 voas for 8260 analysis

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-20	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: (14:47)

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
14:20	4.12	29.0	142.1	20.5	21.8	5.80	8.88	1.33	
14:25	4.98	25.6	146.0	-13.8	8.3	5.91	84.87	0.67	
14:30	5.21	26.0	158.4	-31.0	5.5	6.01	52.60	0.44	
14:35	5.56	26.2	166.5	-43.9	3.8	6.06	167.5	0.31	
14:40	5.74	26.5	167.8	-51.2	3.1	6.08	165.9	0.25	
14:45	5.84	26.4	167.6	-56.2	2.8	6.09	~~[illegible]~~ 105.9	0.23	

Notes:

Flow Rate: 172 ml/min

* strong Petro odor* throughout purge

Collected 3 vocs for 8260 analysis

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-2L	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 12:12

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	DO mg/L Salinity (%)	Total Disolved Solids (g/L)
11:51	5.05	23.8	134.6	239.1	14.9	5.63	51.61	1.17	
11:58	5.34	23.3	109.1	231.3	6	5.40	73.98	0.49	
12:01	5.30	23.4	101.6	237.7	4.1	5.27	54.35	0.35	
12:06	5.44	23.6	96.3	244.2	3.0	5.15	41.84	0.25	
12:11	5.81	23.6	95.2	246.3	2.6	5.12	36.61	0.22	

Notes:

Flow Rate: 150 ml/min

No visual or olfactory evidence of impact

Collected 3 voas for 8260 analysis

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-22	Purge Date: 10/9/13	Sample Date: 10/9/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1305

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1245	5.62								
1250	5.76	22.0	175.2	220.7	12.1	4.62	8.50	1.06	
1255	5.76	22.4	173.8	233.2	9.1	4.62	6.60	0.79	
1300	5.76	22.4	172.7	237.2	7.4	4.63	3.27	0.64	
1305	5.77	22.5	172.1	240.1	6.9	4.62	2.88	0.60	

Notes: Flow rate = 66 ml/min

Sampled @ 1305

CO_2 = 103 mg/L Fe^{+2} = 0 mg/L

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: DW-2	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 1430

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO mg/L	Total Disolved Solids (g/L)
1400	9.39								
1405	9.46								
1410	9.96	21.0	147.9	239.0	31.7	4.58	2.45	2.74	
1415	10.26	21.2	149.3	273.5	14.7	4.49	6.52	1.30	
1420	10.45	21.3	148.8	279.4	12.4	4.48	5.80	1.09	
1425	10.52	21.2	148.2	285.0	11.2	4.47	3.38	1.00	
1430	10.60	21.1	147.9	291.1	10.7	4.47	6.30	0.95	

Notes:

Flow rate = 93 ml/min

Sampled @ 1430

Collected Rinsate Blank (~~RB-1~~ RB-1) after sampling DW-2 @ 1450

Field Blank #1 (FB-1) collected @ 1500

FIELD DATA - GROUNDWATER

PROJECT NAME: R.D. Pate Estate	Sample ID: MW-1X	Purge Date: 10/8/13	Sample Date: 10/8/13
EA Project Number: 07-7019.9	Total Well Depth (Ft.):	Well Volume (Gal.):	Sample Collection Time: 15:30

FIELD MEASUREMENTS

Time	Depth to Water (Ft.)	Temp (° C)	Conductivity	ORP (mV)	DO%	pH	Turbidity (NTU)	~~Salinity (%)~~ DO	Total Disolved Solids (g/L)
15:07	5.01	23.3	105.8	8.0	7.7	5.73	24.62	0.66	
15:12	5.64	23.5	104.4	-10.3	6.7	5.71	17.95	0.56	
15:17	5.68	23.7	104.4	-34.6	4.6	5.71	15.43	0.39	
15:22	5.70	23.8	104.7	-45.6	3.7	5.67	7.98	0.30	
15:27	5.74	24.0	106.2	-57.0	3.1	5.67	6.83	0.26	

Notes:

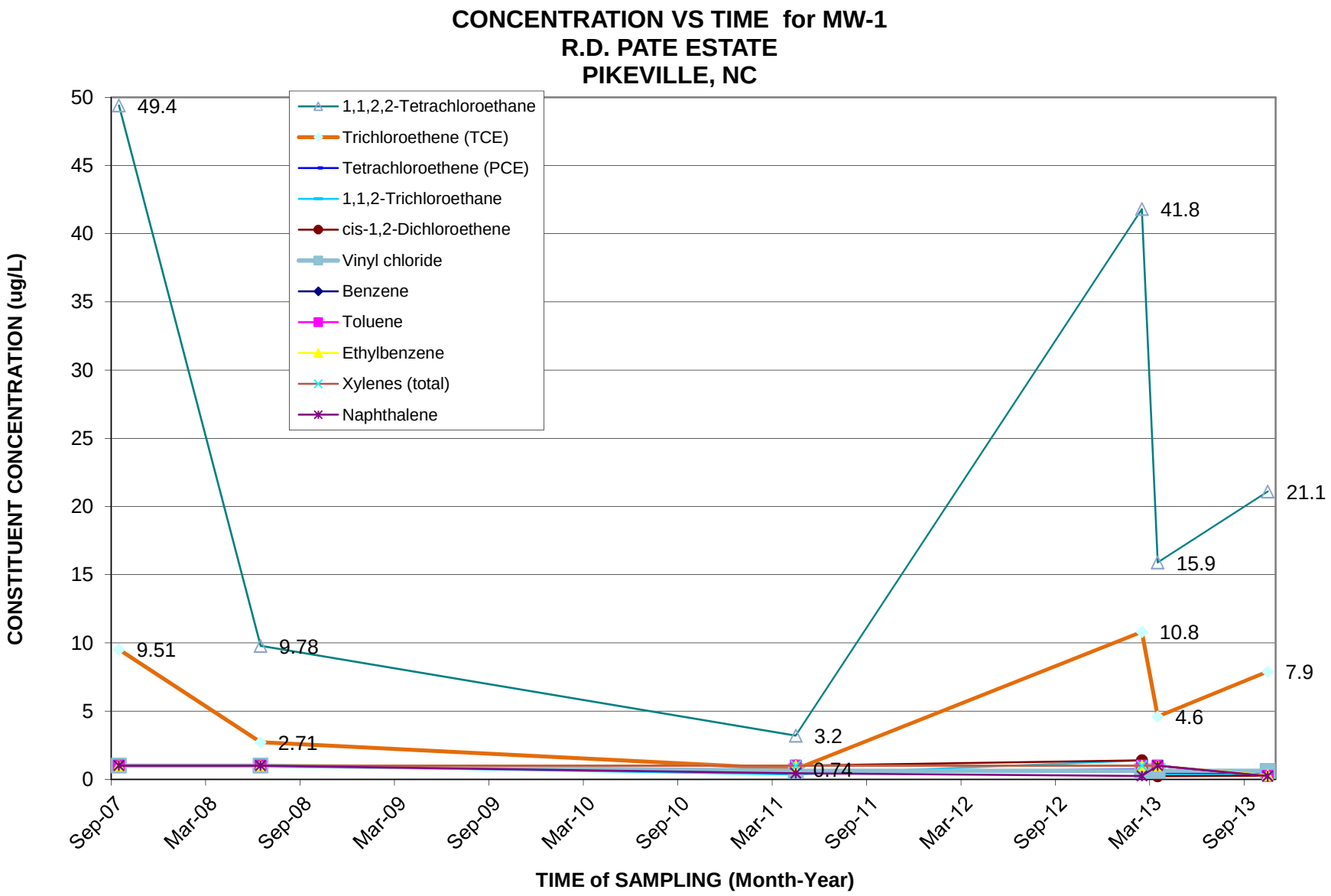
Flow Rate: 180 ml/min

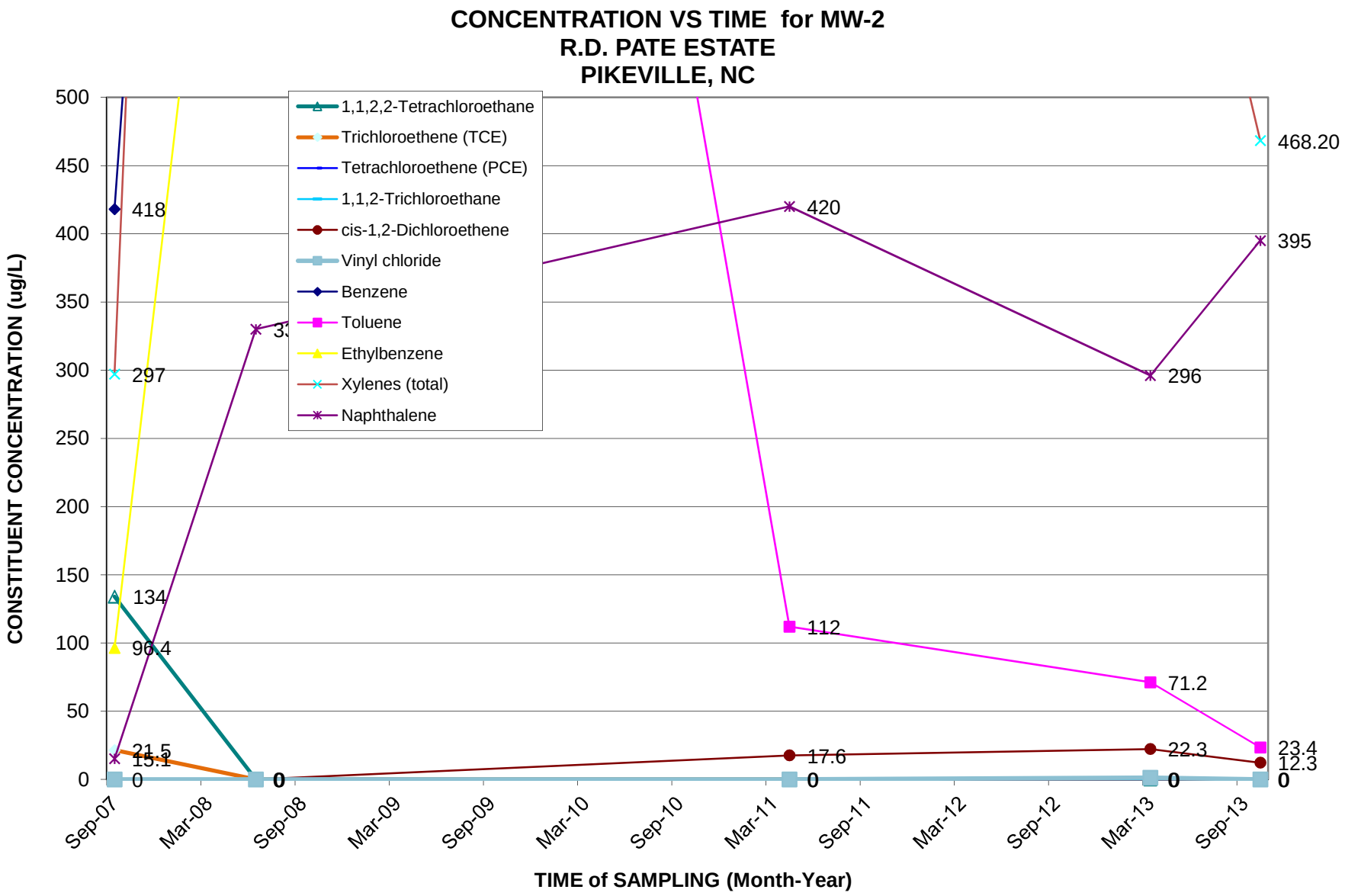
* strong initial petro odor @ begining purge
* NO Noticable odor @ end of purge prior to sample

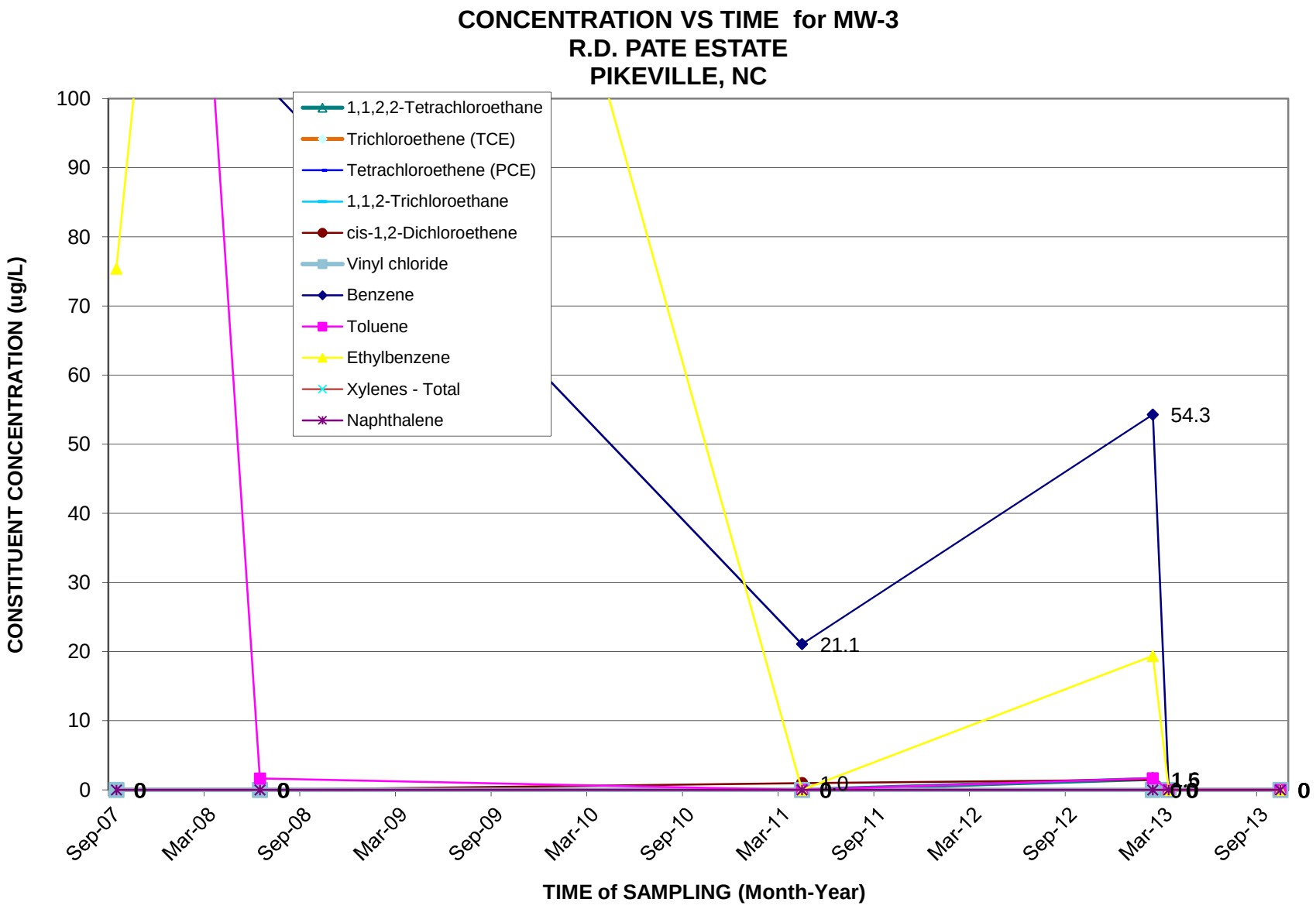
Collected 3 vocs for 8260 analysis.

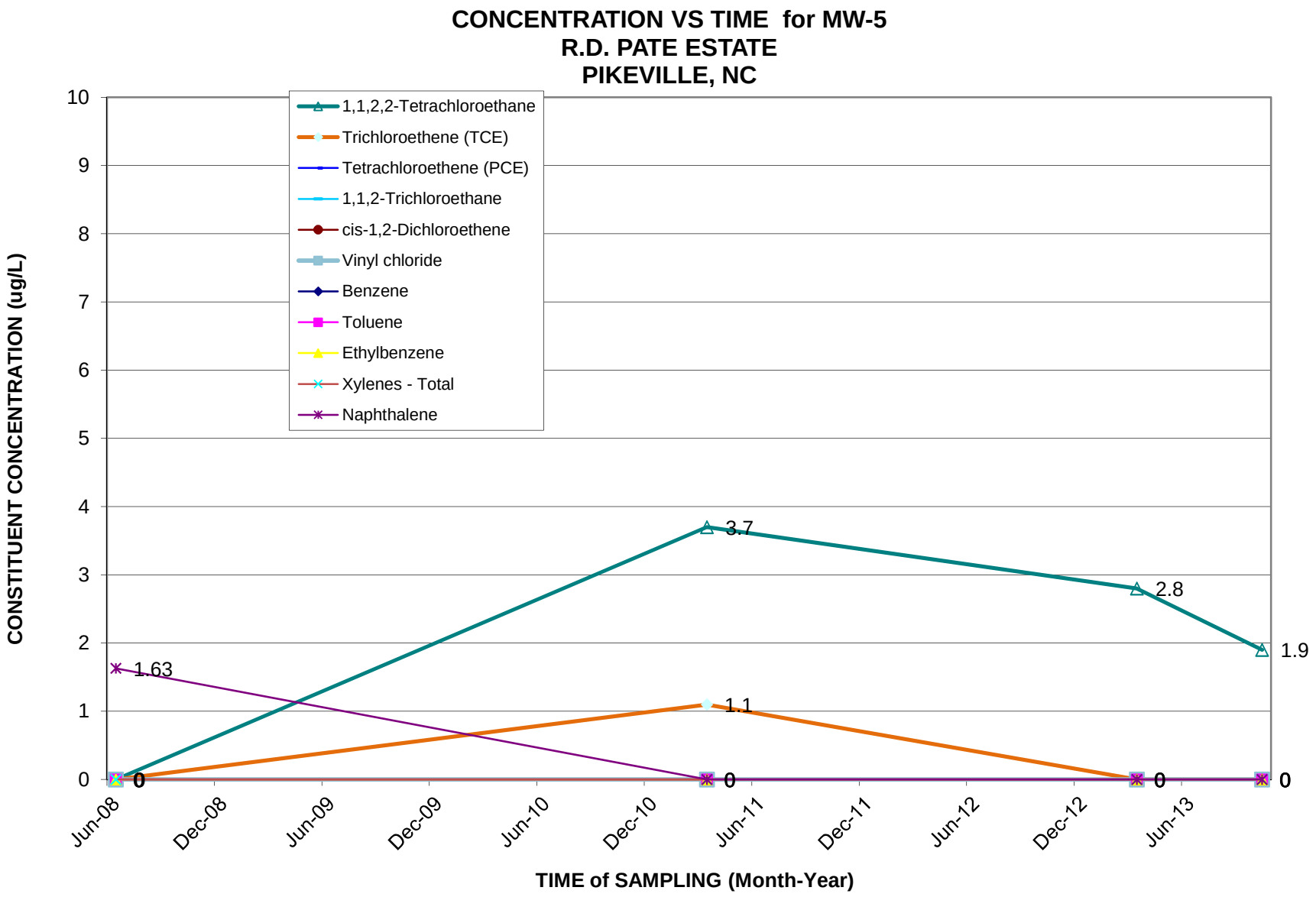
APPENDIX C

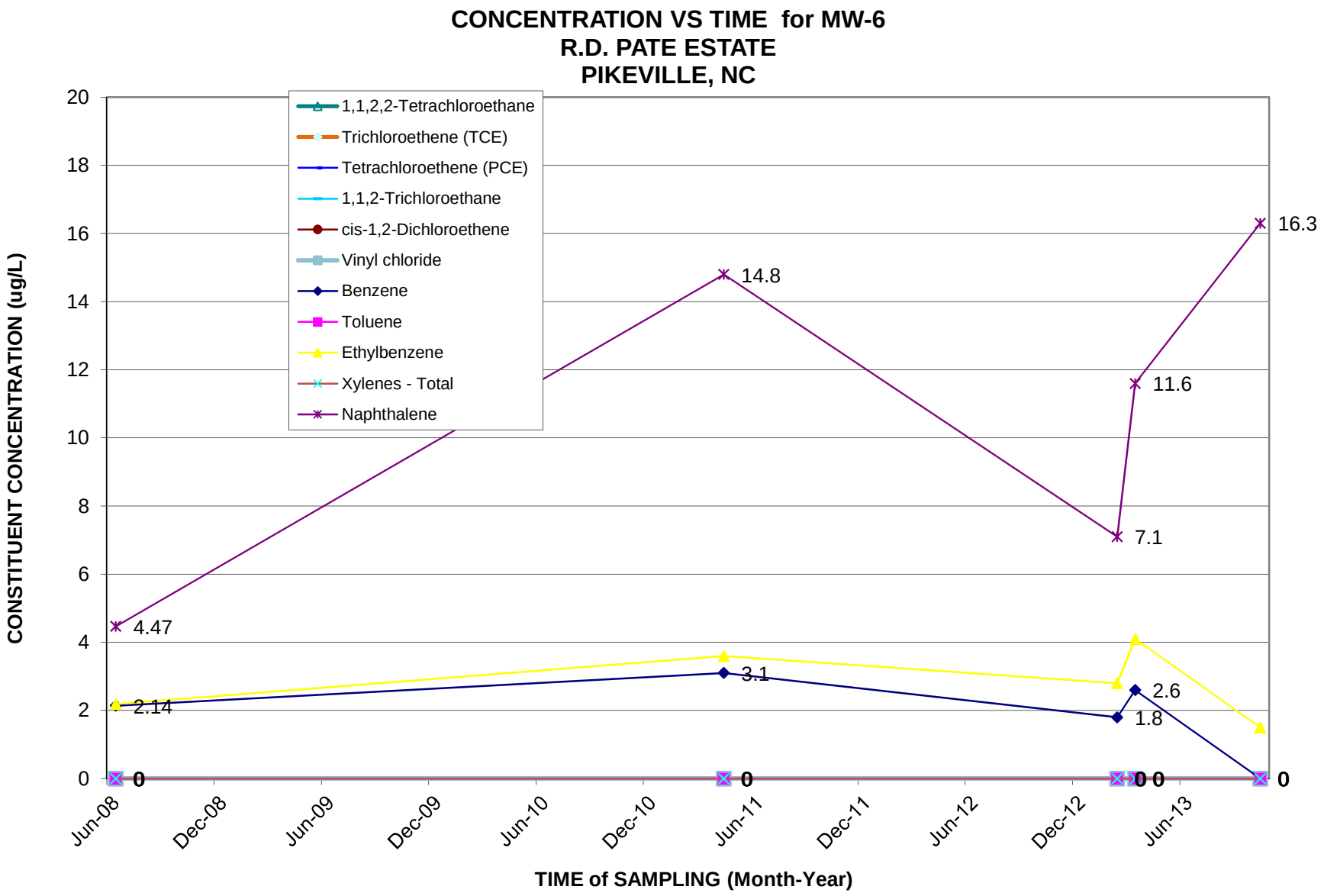
CONTAMINANT CONCENTRATIONS VS TIME GRAPHS

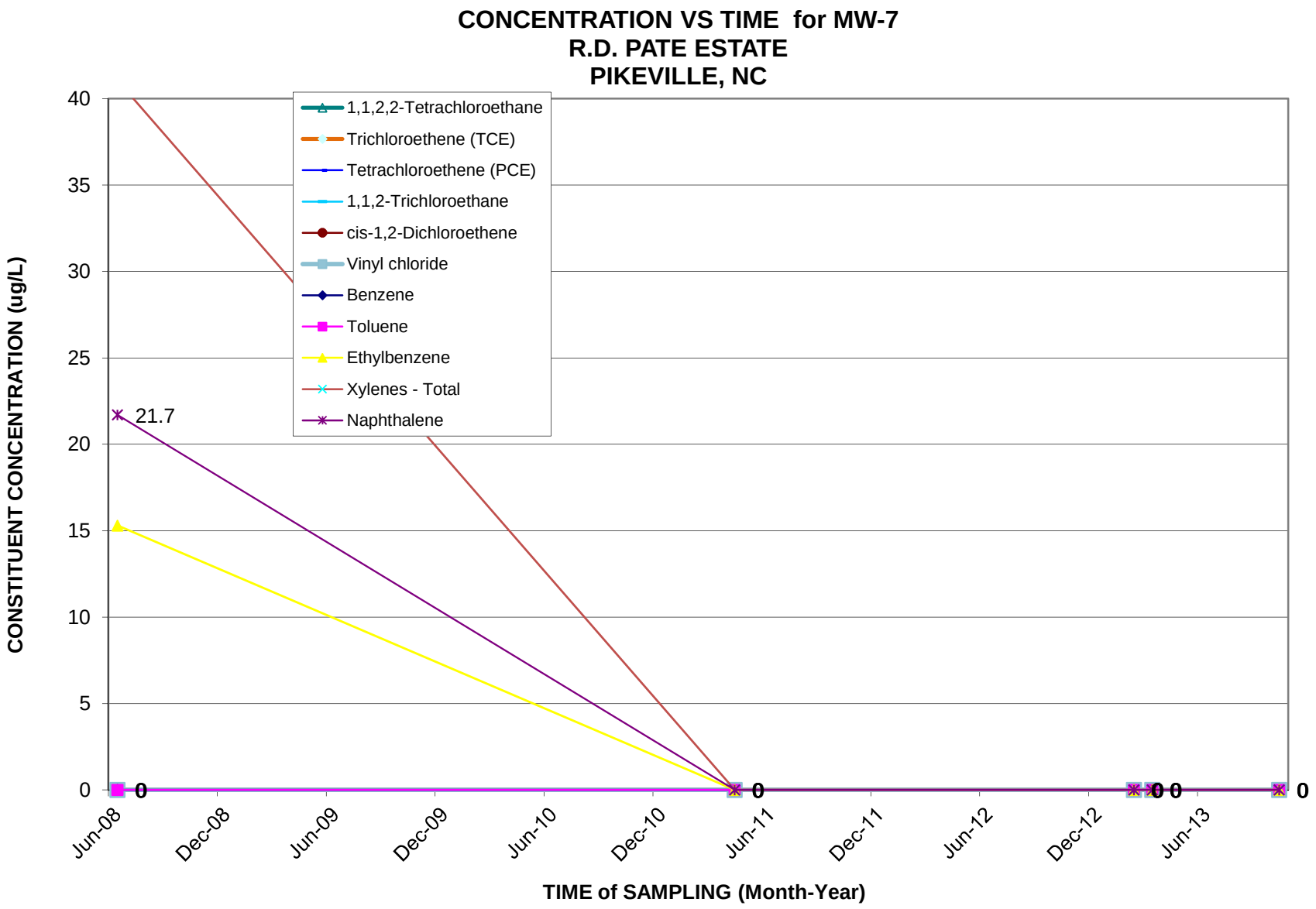

CONCENTRATION VS TIME for MW-1
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes (total)
Naphthalene
50
45
40
35
30
25
20
15
10
5
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
49.4
9.78
3.2
41.8
15.9
21.1
9.51
2.71
0.74
10.8
4.6
7.9

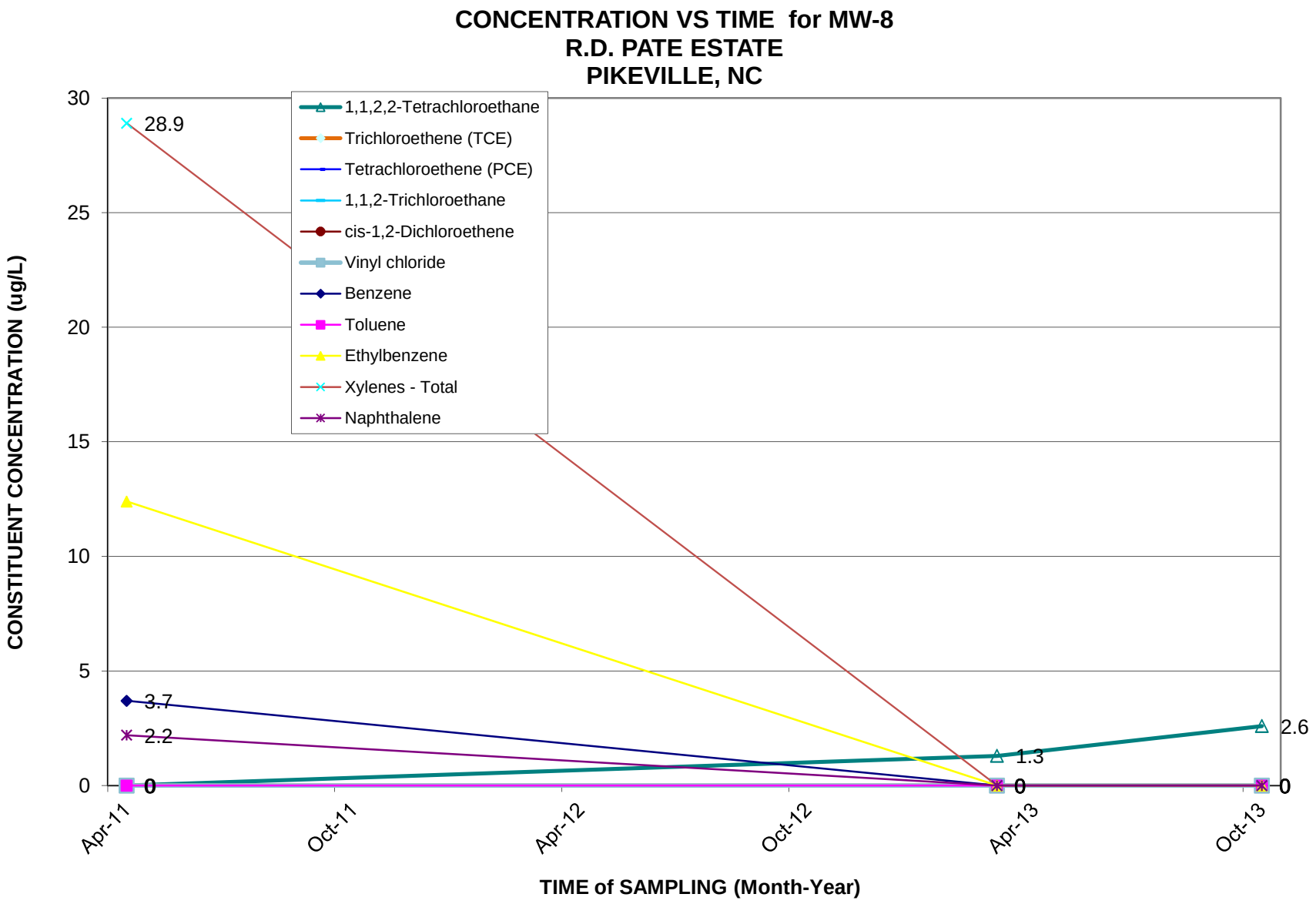

CONCENTRATION VS TIME for MW-2
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes (total)
Naphthalene
500
450
400
350
300
250
200
150
100
50
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
418
297
134
96.4
21.5
15.1
0
0
420
112
17.6
0
296
71.2
22.3
0
468.20
395
23.4
12.3
0

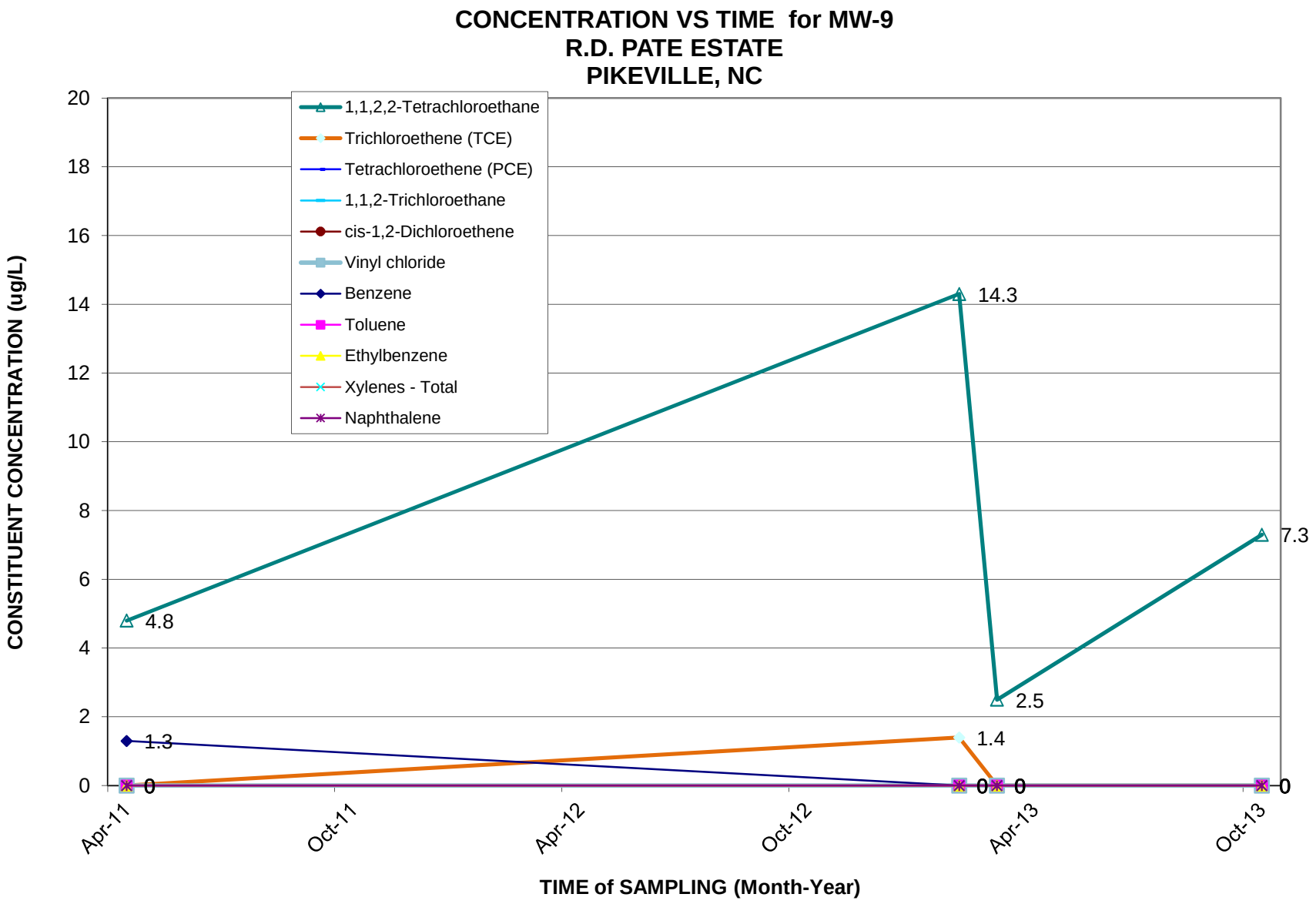

CONCENTRATION VS TIME for MW-3
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
100
90
80
70
60
50
40
30
20
10
0
Sep-07
Mar-08
Sep-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Mar-12
Sep-12
Mar-13
Sep-13
54.3
21.1
1.0
1.5
0

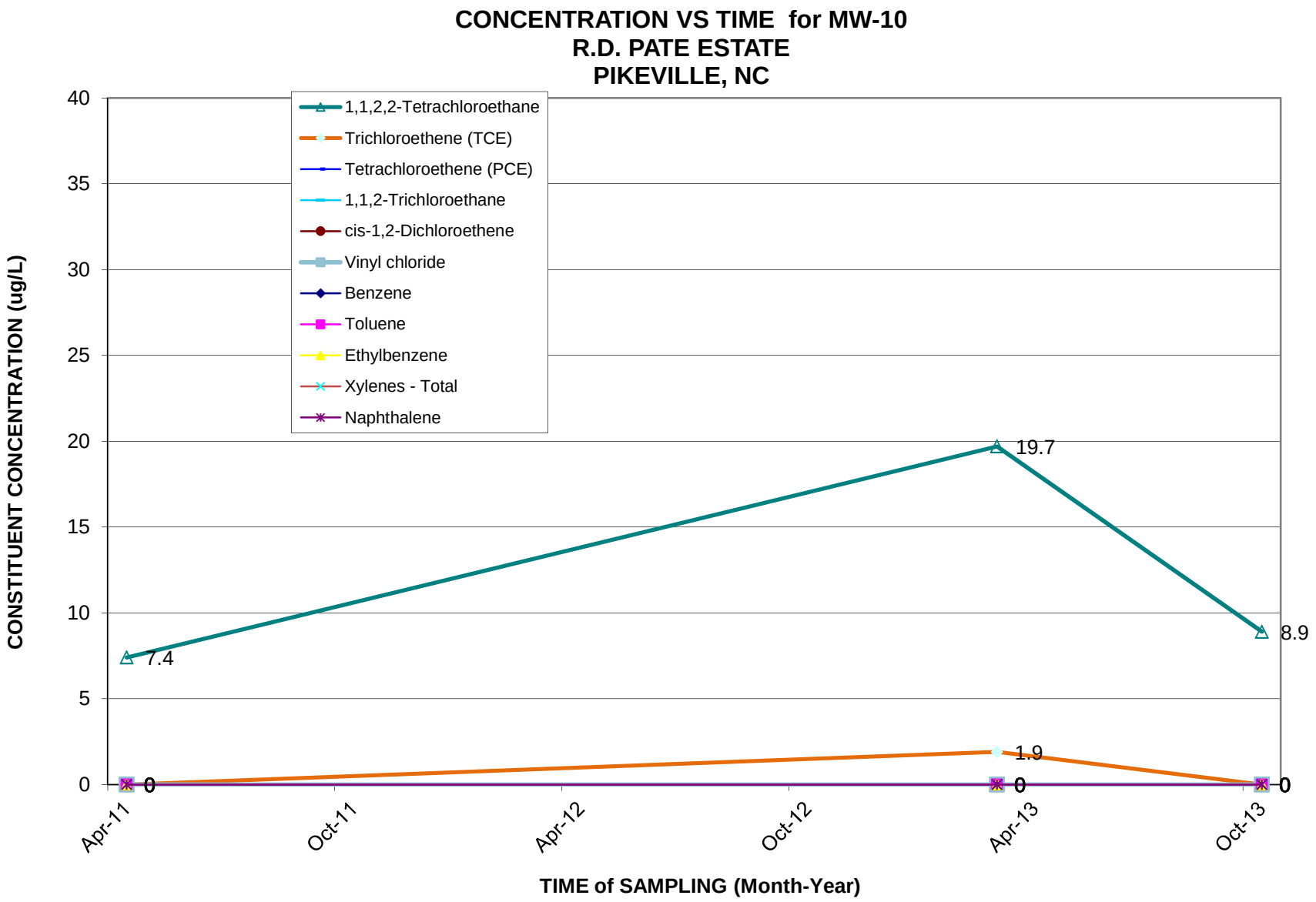

CONCENTRATION VS TIME for MW-5
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
10
9
8
7
6
5
4
3
2
1
0
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
3.7
2.8
1.9
1.63
1.1
0
0
0
0

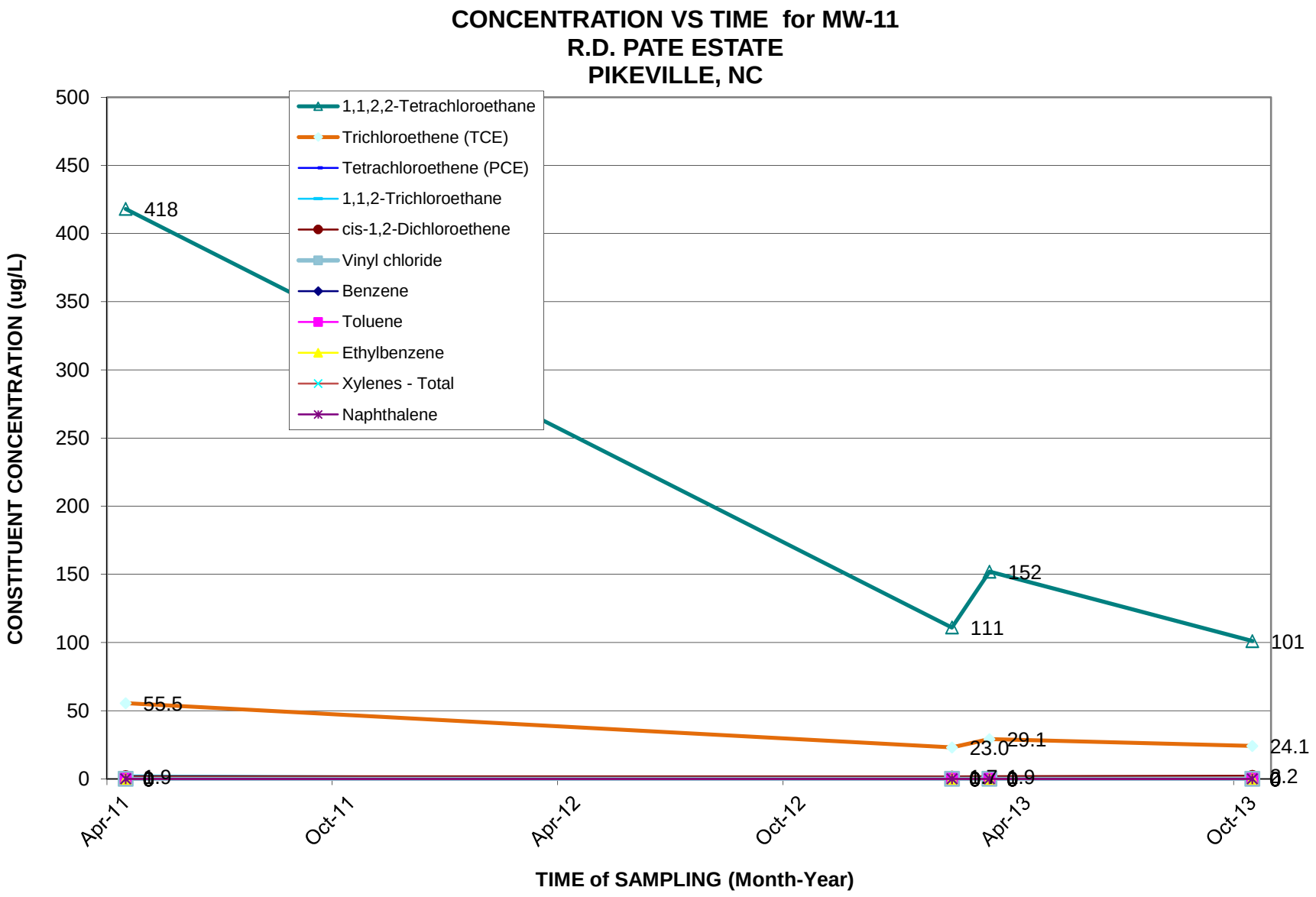

CONCENTRATION VS TIME for MW-6
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
20
18
16
14
12
10
8
6
4
2
0
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
4.47
14.8
7.1
11.6
16.3
2.14
3.1
1.8
2.6
0
0
0 0
0

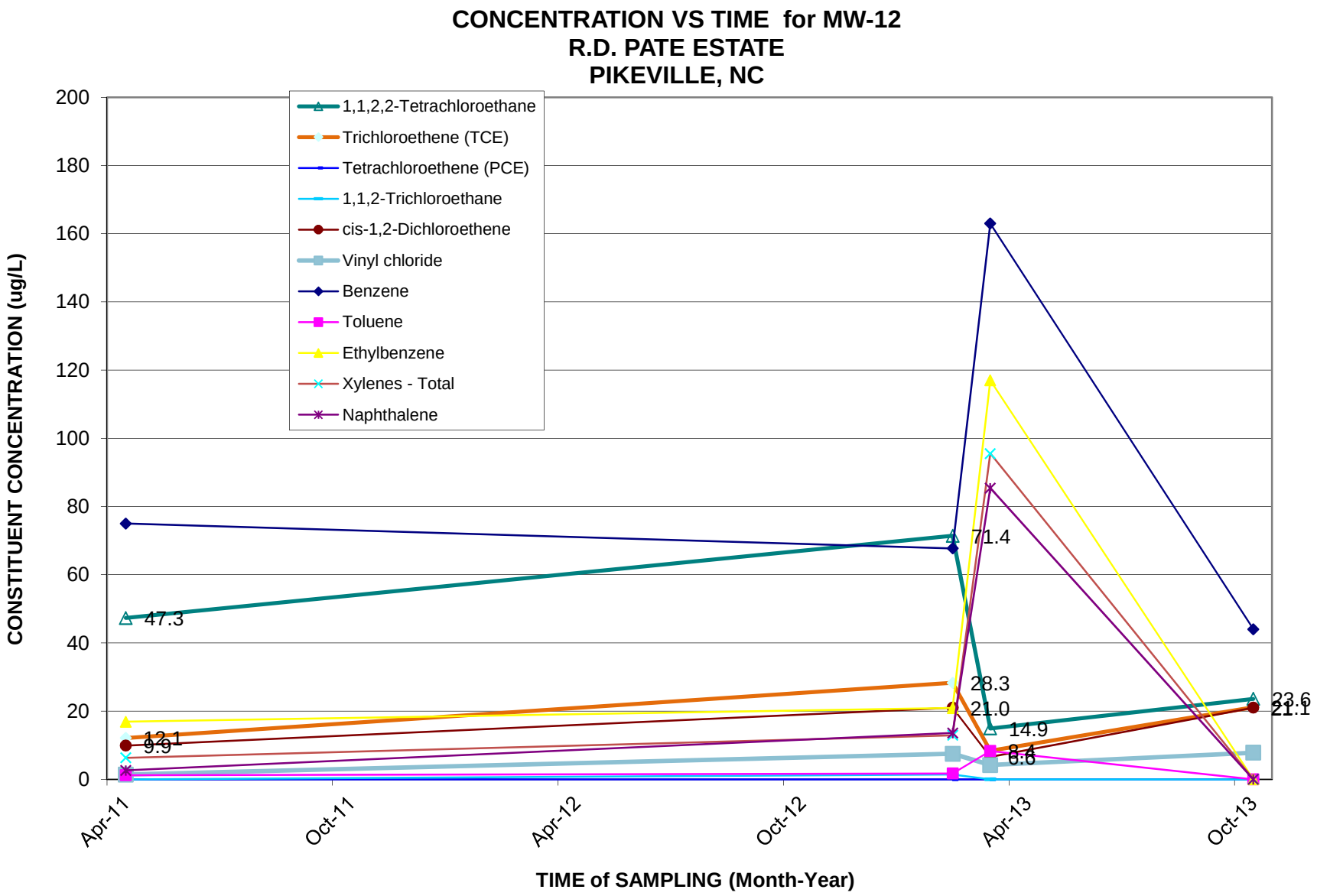

CONCENTRATION VS TIME for MW-7
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
21.7
0
0
0 0
0
40
35
30
25
20
15
10
5
0
Jun-08
Dec-08
Jun-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13

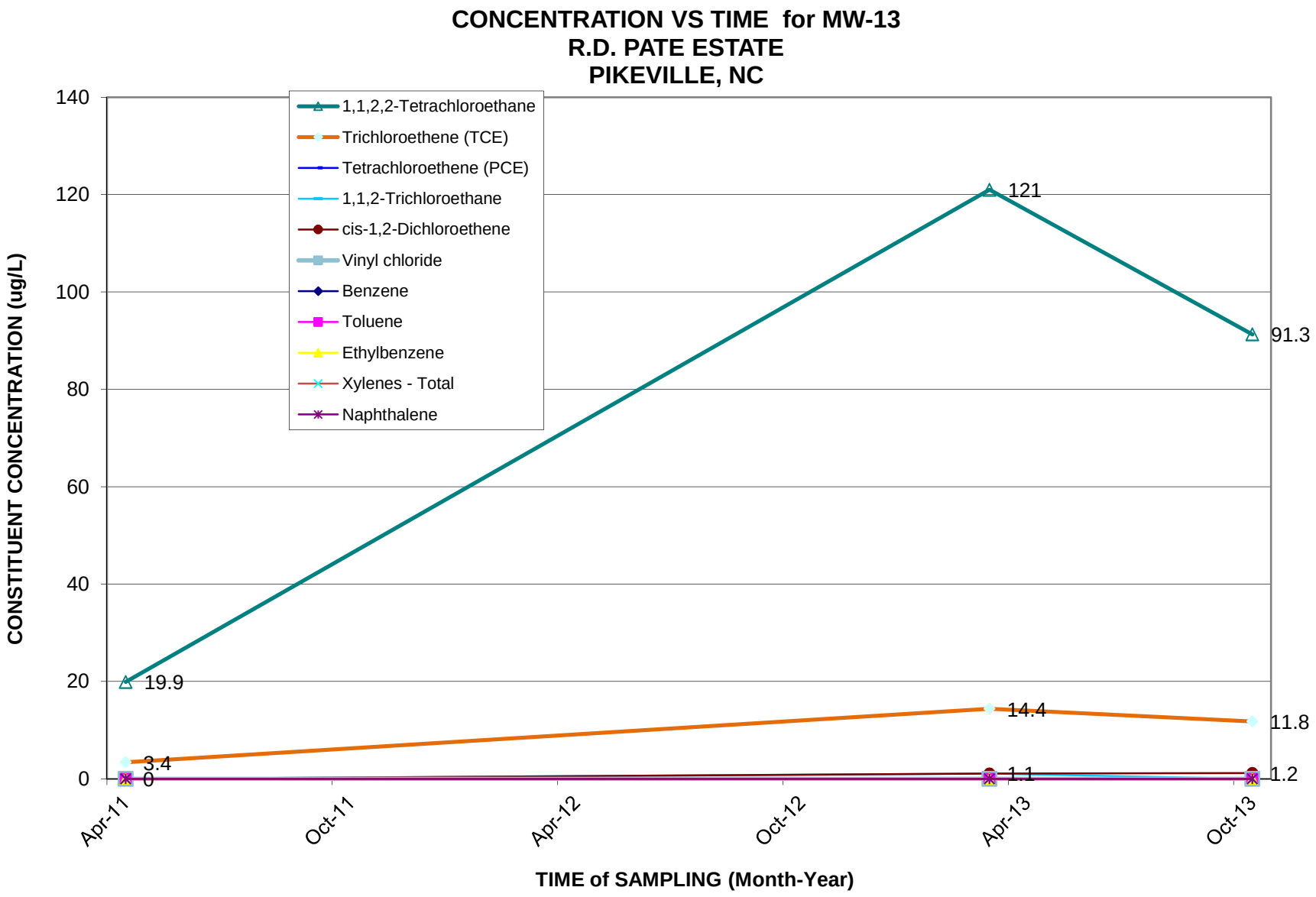

CONCENTRATION VS TIME for MW-8
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
30
25
20
15
10
5
0
28.9
3.7
2.2
0
1.3
0
2.6
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13

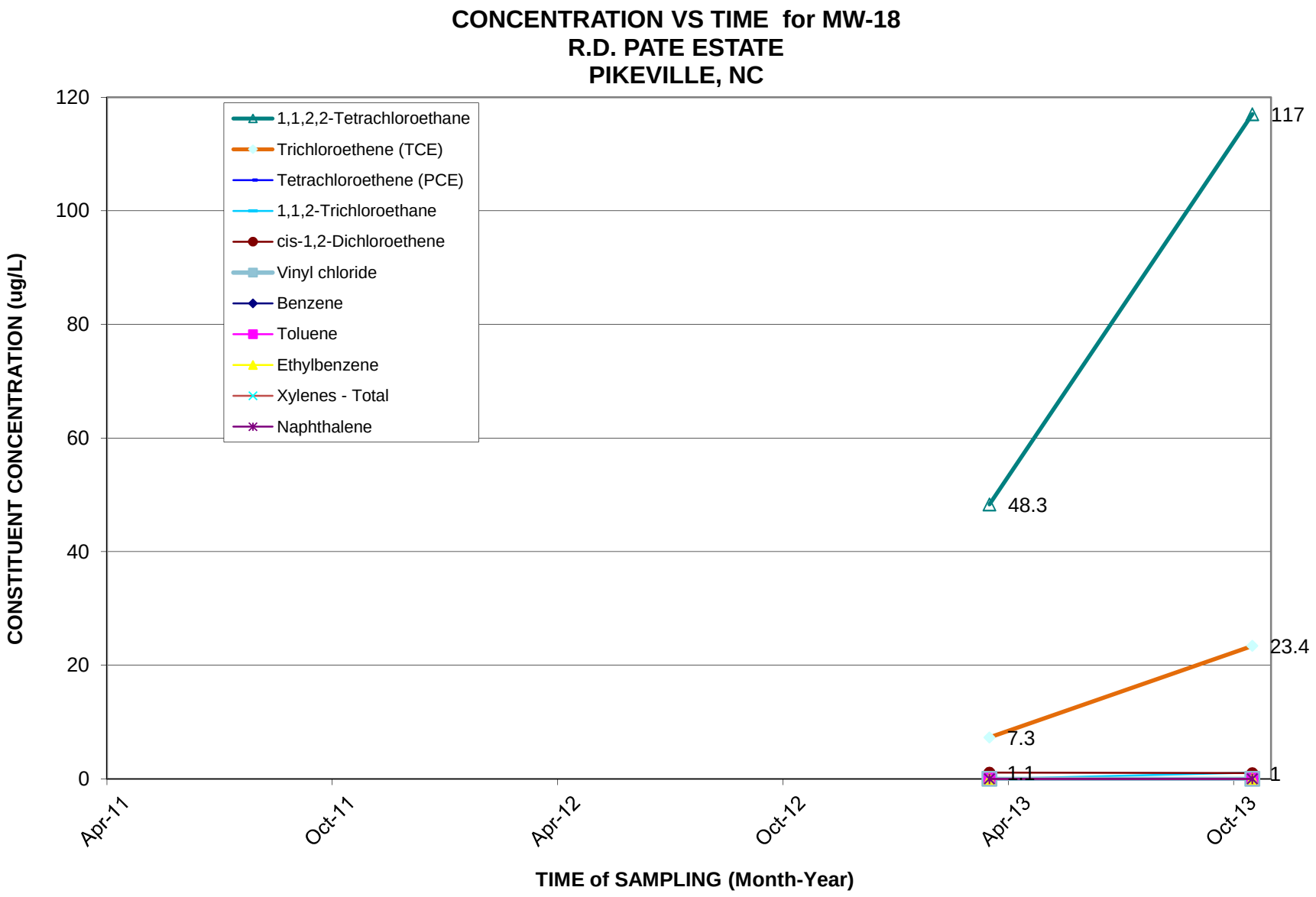

CONCENTRATION VS TIME for MW-9
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
20
18
16
14
12
10
8
6
4
2
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
4.8
14.3
2.5
7.3
1.3
1.4
0
0
0
0

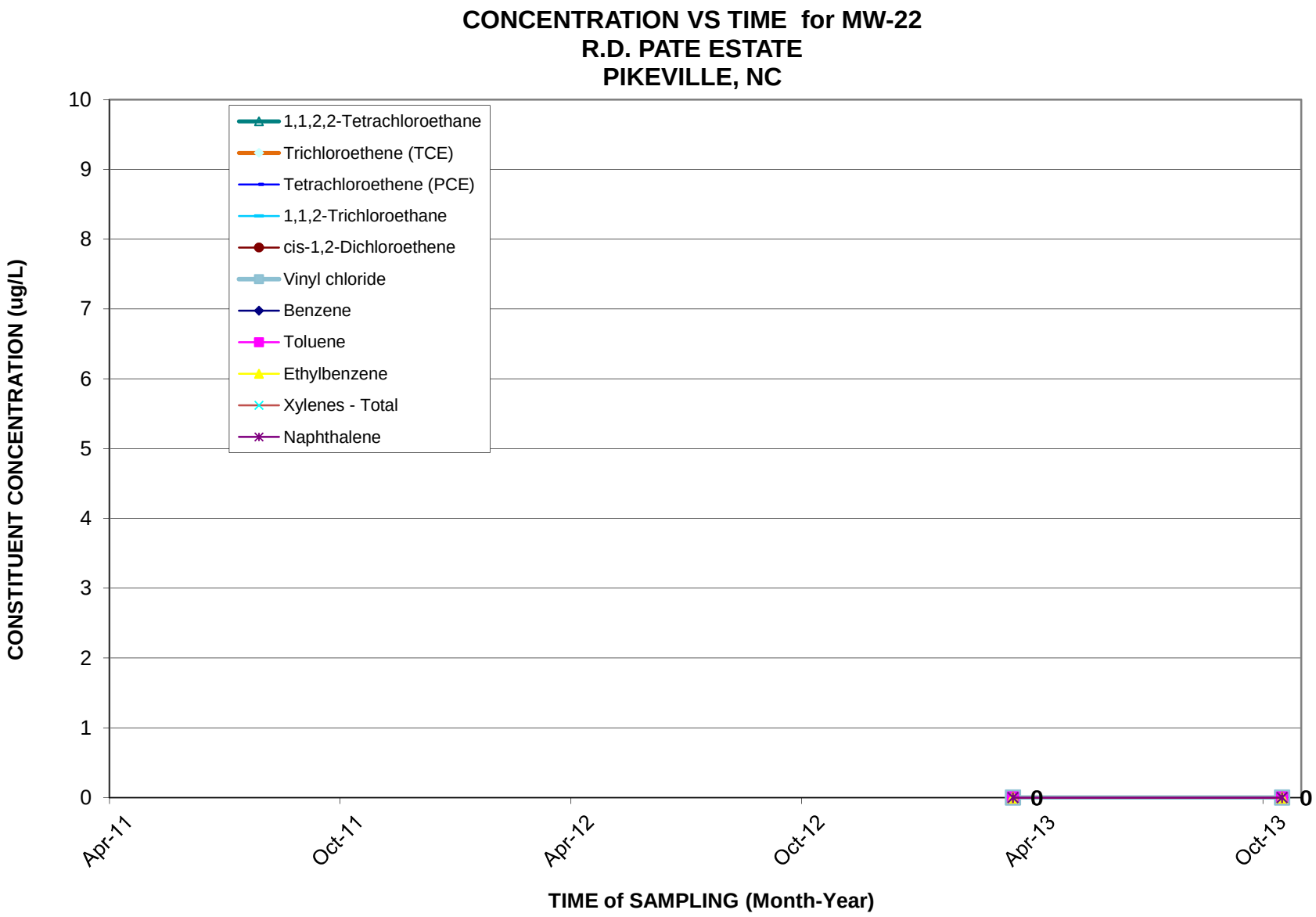

CONCENTRATION VS TIME for MW-10
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
40
35
30
25
20
15
10
5
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
7.4
19.7
8.9
1.9
0
0
0


CONCENTRATION VS TIME for MW-11
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
500
450
400
350
300
250
200
150
100
50
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
418
152
111
101
55.5
29.1
23.0
24.1
0.9
0.9
0.2


CONCENTRATION VS TIME for MW-12
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
200
180
160
140
120
100
80
60
40
20
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
47.3
71.4
28.3
21.0
14.9
8.4
6.6
12.1
9.9
23.6
21.1


CONCENTRATION VS TIME for MW-13
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
TIME of SAMPLING (Month-Year)
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
140
120
100
80
60
40
20
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
19.9
121
91.3
3.4
14.4
11.8
0
1.1
1.2


CONCENTRATION VS TIME for MW-18
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
120
100
80
60
40
20
0
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
117
48.3
23.4
7.3
1.1
1
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
TIME of SAMPLING (Month-Year)


CONCENTRATION VS TIME for MW-22
R.D. PATE ESTATE
PIKEVILLE, NC
CONSTITUENT CONCENTRATION (ug/L)
10
9
8
7
6
5
4
3
2
1
0
1,1,2,2-Tetrachloroethane
Trichloroethene (TCE)
Tetrachloroethene (PCE)
1,1,2-Trichloroethane
cis-1,2-Dichloroethene
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Xylenes - Total
Naphthalene
0
0
Apr-11
Oct-11
Apr-12
Oct-12
Apr-13
Oct-13
TIME of SAMPLING (Month-Year)

APPENDIX D

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODIES

Pace Analytical Services, Inc.
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October 24, 2013

Mr. Gary Sawyer
EnviroAssessments
9111 Monroe Rd.
Suite 175
Charlotte, NC 28270

RE: Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Dear Mr. Sawyer:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

The laboratory report is being reissued on October 24, 2013. Additional compounds were reported, per client request.

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

Sincerely,

Angela M. Baioni

Angela Baioni

angela.baioni@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92175447001	**MW-3**	Water	10/08/13 15:40	10/10/13 13:40
92175447002	**MW-4**	Water	10/08/13 16:18	10/10/13 13:40
92175447003	**MW-5**	Water	10/08/13 17:25	10/10/13 13:40
92175447004	**MW-8**	Water	10/08/13 16:57	10/10/13 13:40
92175447005	**MW-9**	Water	10/08/13 11:17	10/10/13 13:40
92175447006	**MW-10**	Water	10/08/13 16:35	10/10/13 13:40
92175447007	**MW-14**	Water	10/08/13 10:30	10/10/13 13:40
92175447008	**MW-15**	Water	10/08/13 11:45	10/10/13 13:40
92175447009	**MW-16**	Water	10/08/13 13:05	10/10/13 13:40
92175447010	**MW-16 DUP**	Water	10/08/13 13:10	10/10/13 13:40
92175447011	**MW-17**	Water	10/08/13 13:42	10/10/13 13:40
92175447012	**MW-19**	Water	10/08/13 12:59	10/10/13 13:40
92175447013	**MW-20**	Water	10/08/13 14:47	10/10/13 13:40
92175447014	**MW-21**	Water	10/08/13 12:12	10/10/13 13:40
92175447015	**DW-2**	Water	10/08/13 14:30	10/10/13 13:40
92175447016	**MW-1X**	Water	10/08/13 15:30	10/10/13 13:40
92175447017	**RB-1**	Water	10/08/13 14:50	10/10/13 13:40
92175447018	**FB-1**	Water	10/08/13 15:00	10/10/13 13:40
92175447019	**TB-1**	Water	10/08/13 15:15	10/10/13 13:40
92175447020	**MW-1**	Water	10/09/13 13:12	10/10/13 13:40
92175447021	**MW-6**	Water	10/09/13 11:30	10/10/13 13:40
92175447022	**MW-7**	Water	10/09/13 11:40	10/10/13 13:40
92175447023	**MW-12**	Water	10/09/13 14:35	10/10/13 13:40
92175447024	**MW-22**	Water	10/09/13 13:05	10/10/13 13:40
92175447025	**MW-2**	Water	10/09/13 09:12	10/10/13 13:40
92175447026	**MW-11**	Water	10/09/13 10:02	10/10/13 13:40
92175447027	**MW-13**	Water	10/09/13 09:00	10/10/13 13:40
92175447028	**MW-13 DUP**	Water	10/09/13 09:05	10/10/13 13:40
92175447029	**MW-18**	Water	10/09/13 10:20	10/10/13 13:40
92175447030	**RB-2**	Water	10/09/13 09:30	10/10/13 13:40
92175447031	**FB-2**	Water	10/09/13 09:15	10/10/13 13:40
92175447032	**TB-2**	Water	10/09/13 15:05	10/10/13 13:40

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SAMPLE ANALYTE COUNT

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92175447001	**MW-3**	EPA 8260	MCK	74	PASI-C
92175447002	**MW-4**	EPA 8260	MCK	74	PASI-C
92175447003	**MW-5**	EPA 8260	MCK	74	PASI-C
92175447004	**MW-8**	EPA 8260	MCK	74	PASI-C
92175447005	**MW-9**	EPA 8260	MCK	74	PASI-C
92175447006	**MW-10**	EPA 8260	MCK	74	PASI-C
92175447007	**MW-14**	EPA 8260	MCK	74	PASI-C
92175447008	**MW-15**	EPA 8260	MCK	74	PASI-C
92175447009	**MW-16**	EPA 8260	MCK	74	PASI-C
92175447010	**MW-16 DUP**	EPA 8260	MCK	74	PASI-C
92175447011	**MW-17**	EPA 8260	MCK	74	PASI-C
92175447012	**MW-19**	EPA 8260	MCK	74	PASI-C
92175447013	**MW-20**	EPA 8260	MCK	74	PASI-C
92175447014	**MW-21**	EPA 8260	MCK	74	PASI-C
92175447015	**DW-2**	EPA 8260	MCK	74	PASI-C
92175447016	**MW-1X**	EPA 8260	MCK	74	PASI-C
92175447017	**RB-1**	EPA 8260	MCK	74	PASI-C
92175447018	**FB-1**	EPA 8260	MCK	74	PASI-C
92175447019	**TB-1**	EPA 8260	MCK	74	PASI-C
92175447020	**MW-1**	RSK 175	DL1	3	PASI-M
		EPA 8260	MCK	74	PASI-C
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		SM 5310B	SAE	1	PASI-A
92175447021	**MW-6**	RSK 175	DL1	3	PASI-M
		EPA 8260	MCK	74	PASI-C
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		SM 5310B	SAE	1	PASI-A
92175447022	**MW-7**	RSK 175	DL1	3	PASI-M
		EPA 8260	MCK	74	PASI-C
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		SM 5310B	SAE	1	PASI-A
92175447023	**MW-12**	RSK 175	DL1	3	PASI-M
		EPA 8260	MCK	74	PASI-C
		EPA 300.0	SAE	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DMN	3	PASI-A
		SM 5310B	SAE	1	PASI-A
92175447024	**MW-22**	RSK 175	DL1	3	PASI-M
		EPA 8260	MCK	74	PASI-C
		EPA 300.0	SAE	1	PASI-A
		EPA 353.2	DMN	3	PASI-A
		SM 5310B	SAE	1	PASI-A
92175447025	**MW-2**	EPA 8260	MCK	74	PASI-C
92175447026	**MW-11**	EPA 8260	MCK	74	PASI-C
92175447027	**MW-13**	EPA 8260	MCK	74	PASI-C
92175447028	**MW-13 DUP**	EPA 8260	MCK	74	PASI-C
92175447029	**MW-18**	EPA 8260	MCK	74	PASI-C
92175447030	**RB-2**	EPA 8260	MCK	74	PASI-C
92175447031	**FB-2**	EPA 8260	MCK	74	PASI-C
92175447032	**TB-2**	EPA 8260	MCK	74	PASI-C

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-3 **Lab ID: 92175447001** Collected: 10/08/13 15:40 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 12:25	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 12:25	107-02-8	
Benzene	**0.85J**	ug/L	1.0	0.25	1		10/12/13 12:25	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:25	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 12:25	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 12:25	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 12:25	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 12:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 12:25	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 12:25	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 12:25	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 12:25	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 12:25	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 12:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 12:25	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 12:25	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 12:25	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 12:25	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 12:25	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 12:25	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 12:25	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 12:25	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 12:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 12:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 12:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 12:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 12:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 12:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 12:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 12:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 12:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 12:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 12:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 12:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 12:25	10061-02-6	
Diisopropyl ether	**20.7**	ug/L	1.0	0.12	1		10/12/13 12:25	108-20-3	
Ethylbenzene	**0.37J**	ug/L	1.0	0.30	1		10/12/13 12:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 12:25	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 12:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 12:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:25	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-3 **Lab ID: 92175447001** Collected: 10/08/13 15:40 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 12:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 12:25	108-10-1	
Methyl-tert-butyl ether	**0.44J**	ug/L	1.0	0.21	1		10/12/13 12:25	1634-04-4	
Naphthalene	**0.38J**	ug/L	1.0	0.24	1		10/12/13 12:25	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 12:25	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 12:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 12:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 12:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 12:25	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 12:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 12:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 12:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 12:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 12:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 12:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 12:25	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 12:25	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 12:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 12:25	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 12:25	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 12:25	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 12:25	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 12:25	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 12:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/12/13 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/12/13 12:25	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/12/13 12:25	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-4 **Lab ID: 92175447002** Collected: 10/08/13 16:18 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 12:41	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 12:41	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 12:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 12:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 12:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 12:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 12:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 12:41	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 12:41	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 12:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 12:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 12:41	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 12:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 12:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 12:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 12:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 12:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 12:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 12:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 12:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 12:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 12:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 12:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 12:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 12:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 12:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 12:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 12:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 12:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 12:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 12:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 12:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 12:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 12:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 12:41	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 12:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 12:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 12:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:41	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-4 **Lab ID: 92175447002** Collected: 10/08/13 16:18 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 12:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 12:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 12:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 12:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 12:41	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 12:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 12:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 12:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 12:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 12:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 12:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 12:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 12:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 12:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 12:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 12:41	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 12:41	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 12:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 12:41	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 12:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 12:41	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 12:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 12:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 12:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/13 12:41	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/12/13 12:41	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		10/12/13 12:41	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-5 **Lab ID: 92175447003** Collected: 10/08/13 17:25 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 12:58	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 12:58	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 12:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 12:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 12:58	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 12:58	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 12:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 12:58	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 12:58	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 12:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 12:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 12:58	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 12:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 12:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 12:58	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 12:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 12:58	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 12:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 12:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 12:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 12:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 12:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 12:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 12:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 12:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 12:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 12:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 12:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 12:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 12:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 12:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 12:58	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 12:58	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 12:58	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 12:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 12:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:58	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-5 **Lab ID: 92175447003** Collected: 10/08/13 17:25 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 12:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 12:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 12:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 12:58	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 12:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 12:58	630-20-6	
1,1,2,2-Tetrachloroethane	**1.9**	ug/L	1.0	0.40	1		10/12/13 12:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 12:58	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 12:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 12:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 12:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 12:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 12:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 12:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 12:58	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 12:58	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 12:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 12:58	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 12:58	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 12:58	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 12:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 12:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 12:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/12/13 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		10/12/13 12:58	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		10/12/13 12:58	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-8 **Lab ID: 92175447004** Collected: 10/08/13 16:57 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 13:14	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 13:14	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 13:14	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:14	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 13:14	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 13:14	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 13:14	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 13:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 13:14	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 13:14	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 13:14	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 13:14	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 13:14	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 13:14	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 13:14	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 13:14	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 13:14	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 13:14	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 13:14	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 13:14	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 13:14	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 13:14	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 13:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 13:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 13:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 13:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 13:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 13:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 13:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 13:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 13:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 13:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 13:14	10061-02-6	
Diisopropyl ether	**0.94J**	ug/L	1.0	0.12	1		10/12/13 13:14	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 13:14	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 13:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 13:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:14	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-8 **Lab ID: 92175447004** Collected: 10/08/13 16:57 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 13:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 13:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 13:14	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 13:14	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 13:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 13:14	630-20-6	
1,1,2,2-Tetrachloroethane	**2.6**	ug/L	1.0	0.40	1		10/12/13 13:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 13:14	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 13:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 13:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 13:14	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 13:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 13:14	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 13:14	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 13:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 13:14	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 13:14	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 13:14	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 13:14	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 13:14	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 13:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/13 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/12/13 13:14	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/12/13 13:14	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-9 **Lab ID: 92175447005** Collected: 10/08/13 11:17 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 13:30	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 13:30	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 13:30	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:30	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 13:30	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 13:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 13:30	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 13:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 13:30	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 13:30	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 13:30	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 13:30	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 13:30	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 13:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 13:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 13:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 13:30	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 13:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 13:30	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 13:30	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 13:30	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 13:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 13:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 13:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 13:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 13:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 13:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 13:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 13:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 13:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 13:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 13:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 13:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 13:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 13:30	10061-02-6	
Diisopropyl ether	**0.21J**	ug/L	1.0	0.12	1		10/12/13 13:30	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 13:30	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 13:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 13:30	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:30	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-9 **Lab ID: 92175447005** Collected: 10/08/13 11:17 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 13:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 13:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 13:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 13:30	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 13:30	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 13:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 13:30	630-20-6	
1,1,2,2-Tetrachloroethane	**7.3**	ug/L	1.0	0.40	1		10/12/13 13:30	79-34-5	
Tetrachloroethene	**0.49J**	ug/L	1.0	0.46	1		10/12/13 13:30	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 13:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 13:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 13:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 13:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 13:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 13:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 13:30	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 13:30	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 13:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 13:30	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 13:30	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 13:30	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 13:30	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 13:30	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 13:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		10/12/13 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/12/13 13:30	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/12/13 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-10 **Lab ID: 92175447006** Collected: 10/08/13 16:35 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 13:46	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 13:46	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 13:46	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:46	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 13:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 13:46	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 13:46	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 13:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 13:46	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 13:46	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 13:46	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 13:46	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 13:46	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 13:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 13:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 13:46	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 13:46	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 13:46	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 13:46	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 13:46	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 13:46	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 13:46	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 13:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 13:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 13:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 13:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 13:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 13:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 13:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 13:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 13:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 13:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 13:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 13:46	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 13:46	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 13:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 13:46	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 13:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 13:46	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 13:46	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-10 **Lab ID: 92175447006** Collected: 10/08/13 16:35 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 13:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 13:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 13:46	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 13:46	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	**8.9**	ug/L	1.0	0.40	1		10/12/13 13:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 13:46	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 13:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 13:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 13:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 13:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 13:46	79-00-5	
Trichloroethene	**0.81J**	ug/L	1.0	0.47	1		10/12/13 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 13:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 13:46	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 13:46	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 13:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 13:46	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 13:46	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 13:46	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 13:46	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 13:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 13:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/13 13:46	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/12/13 13:46	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		10/12/13 13:46	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-14 **Lab ID: 92175447007** Collected: 10/08/13 10:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 14:02	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 14:02	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 14:02	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:02	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 14:02	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 14:02	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 14:02	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 14:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 14:02	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 14:02	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 14:02	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 14:02	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 14:02	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 14:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 14:02	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 14:02	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 14:02	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 14:02	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 14:02	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 14:02	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 14:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 14:02	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 14:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 14:02	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 14:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 14:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 14:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 14:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 14:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 14:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 14:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 14:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 14:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 14:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 14:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 14:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 14:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 14:02	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 14:02	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 14:02	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 14:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 14:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 14:02	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-14 **Lab ID: 92175447007** Collected: 10/08/13 10:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 14:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 14:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 14:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 14:02	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 14:02	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 14:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 14:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 14:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 14:02	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 14:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 14:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 14:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 14:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 14:02	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 14:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 14:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 14:02	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 14:02	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 14:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 14:02	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 14:02	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 14:02	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 14:02	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 14:02	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 14:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/13 14:02	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/12/13 14:02	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		10/12/13 14:02	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-15 **Lab ID: 92175447008** Collected: 10/08/13 11:45 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 14:18	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 14:18	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 14:18	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:18	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 14:18	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 14:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 14:18	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 14:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 14:18	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 14:18	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 14:18	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 14:18	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 14:18	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 14:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 14:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 14:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 14:18	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 14:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 14:18	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 14:18	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 14:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 14:18	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 14:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 14:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 14:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 14:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 14:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 14:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 14:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 14:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 14:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 14:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 14:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 14:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 14:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 14:18	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 14:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 14:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 14:18	10061-02-6	
Diisopropyl ether	**0.13J**	ug/L	1.0	0.12	1		10/12/13 14:18	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 14:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 14:18	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 14:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 14:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 14:18	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-15 **Lab ID: 92175447008** Collected: 10/08/13 11:45 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 14:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 14:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 14:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 14:18	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 14:18	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 14:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 14:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 14:18	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 14:18	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 14:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 14:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 14:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 14:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 14:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 14:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 14:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 14:18	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 14:18	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 14:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 14:18	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 14:18	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 14:18	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 14:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 14:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 14:18	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/12/13 14:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/12/13 14:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/12/13 14:18	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-16 **Lab ID: 92175447009** Collected: 10/08/13 13:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 10:23	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 10:23	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 10:23	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 10:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 10:23	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 10:23	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 10:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 10:23	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 10:23	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 10:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 10:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 10:23	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 10:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 10:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 10:23	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 10:23	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 10:23	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 10:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 10:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 10:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 10:23	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 10:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 10:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 10:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 10:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 10:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 10:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 10:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 10:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 10:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 10:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 10:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 10:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 10:23	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 10:23	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 10:23	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 10:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 10:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:23	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-16 **Lab ID: 92175447009** Collected: 10/08/13 13:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 10:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 10:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 10:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 10:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 10:23	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 10:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 10:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 10:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 10:23	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 10:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 10:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 10:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 10:23	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 10:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 10:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 10:23	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 10:23	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 10:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 10:23	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 10:23	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 10:23	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 10:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 10:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 10:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/13 10:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/15/13 10:23	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 10:23	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-16 DUP **Lab ID: 92175447010** Collected: 10/08/13 13:10 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 10:39	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 10:39	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 10:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 10:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 10:39	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 10:39	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 10:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 10:39	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 10:39	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 10:39	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 10:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 10:39	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 10:39	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 10:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 10:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 10:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 10:39	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 10:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 10:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 10:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 10:39	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 10:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 10:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 10:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 10:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 10:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 10:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 10:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 10:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 10:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 10:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 10:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 10:39	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 10:39	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 10:39	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 10:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 10:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:39	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-16 DUP **Lab ID: 92175447010** Collected: 10/08/13 13:10 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 10:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 10:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 10:39	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 10:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 10:39	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 10:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 10:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 10:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 10:39	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 10:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 10:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 10:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 10:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 10:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 10:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 10:39	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 10:39	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 10:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 10:39	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 10:39	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 10:39	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 10:39	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 10:39	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 10:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 10:39	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/15/13 10:39	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 10:39	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-17 **Lab ID: 92175447011** Collected: 10/08/13 13:42 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 10:55	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 10:55	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 10:55	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:55	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 10:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 10:55	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 10:55	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 10:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 10:55	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 10:55	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 10:55	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 10:55	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 10:55	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 10:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 10:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 10:55	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 10:55	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 10:55	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 10:55	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 10:55	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 10:55	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 10:55	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 10:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 10:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 10:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 10:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 10:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 10:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 10:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 10:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 10:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 10:55	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 10:55	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 10:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 10:55	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 10:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 10:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 10:55	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-17 **Lab ID: 92175447011** Collected: 10/08/13 13:42 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 10:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 10:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 10:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 10:55	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 10:55	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 10:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 10:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 10:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 10:55	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 10:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 10:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 10:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 10:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 10:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 10:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 10:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 10:55	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 10:55	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 10:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 10:55	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 10:55	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 10:55	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 10:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 10:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 10:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 10:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/15/13 10:55	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/15/13 10:55	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-19 **Lab ID: 92175447012** Collected: 10/08/13 12:59 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 11:11	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 11:11	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 11:11	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 11:11	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 11:11	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 11:11	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 11:11	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 11:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 11:11	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 11:11	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 11:11	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 11:11	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 11:11	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 11:11	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 11:11	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 11:11	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 11:11	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 11:11	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 11:11	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 11:11	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 11:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 11:11	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 11:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 11:11	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 11:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 11:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 11:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 11:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 11:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 11:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 11:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 11:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 11:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 11:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 11:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 11:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 11:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 11:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 11:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 11:11	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 11:11	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 11:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 11:11	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 11:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 11:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 11:11	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-19 **Lab ID: 92175447012** Collected: 10/08/13 12:59 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 11:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 11:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 11:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 11:11	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 11:11	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 11:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 11:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 11:11	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 11:11	127-18-4	
Toluene	**0.32J**	ug/L	1.0	0.26	1		10/15/13 11:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 11:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 11:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 11:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 11:11	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 11:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 11:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 11:11	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 11:11	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 11:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 11:11	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 11:11	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 11:11	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 11:11	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 11:11	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 11:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 11:11	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/15/13 11:11	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/15/13 11:11	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-20 **Lab ID: 92175447013** Collected: 10/08/13 14:47 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	125	50.0	5		10/15/13 23:13	67-64-1	
Acrolein	ND	ug/L	50.0	8.0	5		10/15/13 23:13	107-02-8	
Benzene	ND	ug/L	5.0	1.2	5		10/15/13 23:13	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	5		10/15/13 23:13	108-86-1	
Bromochloromethane	ND	ug/L	5.0	0.85	5		10/15/13 23:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	0.90	5		10/15/13 23:13	75-27-4	
Bromoform	ND	ug/L	5.0	1.3	5		10/15/13 23:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1.4	5		10/15/13 23:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	4.8	5		10/15/13 23:13	78-93-3	
tert-Butyl Alcohol	**255**	ug/L	250	18.1	5		10/15/13 23:13	75-65-0	
n-Butylbenzene	**5.5**	ug/L	5.0	2.0	5		10/15/13 23:13	104-51-8	
sec-Butylbenzene	**9.1**	ug/L	5.0	1.9	5		10/15/13 23:13	135-98-8	
tert-Butylbenzene	**2.6J**	ug/L	5.0	2.0	5		10/15/13 23:13	98-06-6	
Carbon disulfide	ND	ug/L	10.0	5.8	5		10/15/13 23:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1.2	5		10/15/13 23:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.2	5		10/15/13 23:13	108-90-7	
Chloroethane	ND	ug/L	5.0	2.7	5		10/15/13 23:13	75-00-3	
Chloroform	ND	ug/L	5.0	0.70	5		10/15/13 23:13	67-66-3	
Chloromethane	ND	ug/L	5.0	0.55	5		10/15/13 23:13	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.8	5		10/15/13 23:13	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	5		10/15/13 23:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	12.6	5		10/15/13 23:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.0	5		10/15/13 23:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.4	5		10/15/13 23:13	106-93-4	
Dibromomethane	ND	ug/L	5.0	1.0	5		10/15/13 23:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	5		10/15/13 23:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.2	5		10/15/13 23:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.6	5		10/15/13 23:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.0	5		10/15/13 23:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.6	5		10/15/13 23:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.60	5		10/15/13 23:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	2.8	5		10/15/13 23:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.95	5		10/15/13 23:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	2.4	5		10/15/13 23:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.4	5		10/15/13 23:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.4	5		10/15/13 23:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	0.65	5		10/15/13 23:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	2.4	5		10/15/13 23:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	0.65	5		10/15/13 23:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.3	5		10/15/13 23:13	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	0.60	5		10/15/13 23:13	108-20-3	
Ethylbenzene	**6.2**	ug/L	5.0	1.5	5		10/15/13 23:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	3.6	5		10/15/13 23:13	87-68-3	
2-Hexanone	ND	ug/L	25.0	2.3	5		10/15/13 23:13	591-78-6	
Isopropylbenzene (Cumene)	**17.0**	ug/L	5.0	2.0	5		10/15/13 23:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	5		10/15/13 23:13	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-20 **Lab ID: 92175447013** Collected: 10/08/13 14:47 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	**73.8**	ug/L	10.0	4.8	5		10/15/13 23:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1.6	5		10/15/13 23:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.0	5		10/15/13 23:13	1634-04-4	
Naphthalene	**520**	ug/L	5.0	1.2	5		10/15/13 23:13	91-20-3	
n-Propylbenzene	**26.2**	ug/L	5.0	2.1	5		10/15/13 23:13	103-65-1	
Styrene	ND	ug/L	5.0	1.3	5		10/15/13 23:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.6	5		10/15/13 23:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.0	5		10/15/13 23:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	2.3	5		10/15/13 23:13	127-18-4	
Toluene	ND	ug/L	5.0	1.3	5		10/15/13 23:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.6	5		10/15/13 23:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.8	5		10/15/13 23:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	2.4	5		10/15/13 23:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.4	5		10/15/13 23:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	2.4	5		10/15/13 23:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.0	5		10/15/13 23:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	2.0	5		10/15/13 23:13	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	5.0	0.45	5		10/15/13 23:13	526-73-8	
1,2,4-Trimethylbenzene	**36.8**	ug/L	5.0	1.6	5		10/15/13 23:13	95-63-6	
1,3,5-Trimethylbenzene	**7.8**	ug/L	5.0	1.8	5		10/15/13 23:13	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1.8	5		10/15/13 23:13	108-05-4	
Vinyl chloride	ND	ug/L	5.0	3.1	5		10/15/13 23:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	3.3	5		10/15/13 23:13	1330-20-7	
m&p-Xylene	**3.9J**	ug/L	10.0	3.3	5		10/15/13 23:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.2	5		10/15/13 23:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		10/15/13 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		5		10/15/13 23:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130		5		10/15/13 23:13	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-21 **Lab ID: 92175447014** Collected: 10/08/13 12:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 23:29	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 23:29	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 23:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 23:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 23:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 23:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 23:29	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 23:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 23:29	78-93-3	
tert-Butyl Alcohol	**45.6J**	ug/L	50.0	3.6	1		10/15/13 23:29	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 23:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 23:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 23:29	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 23:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 23:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 23:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 23:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 23:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 23:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 23:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 23:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 23:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 23:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 23:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 23:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 23:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 23:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 23:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 23:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 23:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 23:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 23:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 23:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 23:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 23:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 23:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 23:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 23:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 23:29	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 23:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 23:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 23:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 23:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 23:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 23:29	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-21 **Lab ID: 92175447014** Collected: 10/08/13 12:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 23:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 23:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 23:29	1634-04-4	
Naphthalene	**0.50J**	ug/L	1.0	0.24	1		10/15/13 23:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 23:29	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 23:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 23:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 23:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 23:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 23:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 23:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 23:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 23:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 23:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 23:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 23:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 23:29	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 23:29	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 23:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 23:29	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 23:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 23:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 23:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 23:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 23:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/15/13 23:29	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/15/13 23:29	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 23:29	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: DW-2 **Lab ID: 92175447015** Collected: 10/08/13 14:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 05:32	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 05:32	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 05:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 05:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 05:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 05:32	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 05:32	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 05:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 05:32	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 05:32	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 05:32	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 05:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 05:32	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 05:32	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 05:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 05:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 05:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 05:32	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 05:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 05:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 05:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 05:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 05:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 05:32	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 05:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 05:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 05:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 05:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 05:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 05:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 05:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 05:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 05:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 05:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 05:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 05:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 05:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 05:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 05:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 05:32	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 05:32	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 05:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 05:32	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 05:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 05:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 05:32	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: DW-2 **Lab ID: 92175447015** Collected: 10/08/13 14:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 05:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 05:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 05:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 05:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 05:32	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 05:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 05:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 05:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 05:32	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 05:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 05:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 05:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 05:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 05:32	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 05:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 05:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 05:32	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 05:32	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 05:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 05:32	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 05:32	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 05:32	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 05:32	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 05:32	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 05:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 05:32	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/15/13 05:32	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 05:32	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-1X **Lab ID: 92175447016** Collected: 10/08/13 15:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 05:48	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 05:48	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 05:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 05:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 05:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 05:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 05:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 05:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 05:48	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 05:48	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 05:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 05:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 05:48	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 05:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 05:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 05:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 05:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 05:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 05:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 05:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 05:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 05:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 05:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 05:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 05:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 05:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 05:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 05:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 05:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 05:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 05:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 05:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 05:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 05:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 05:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 05:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 05:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 05:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 05:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 05:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 05:48	108-20-3	
Ethylbenzene	**8.3**	ug/L	1.0	0.30	1		10/15/13 05:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 05:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 05:48	591-78-6	
Isopropylbenzene (Cumene)	**1.7**	ug/L	1.0	0.40	1		10/15/13 05:48	98-82-8	
p-Isopropyltoluene	**2.3**	ug/L	1.0	0.31	1		10/15/13 05:48	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-1X **Lab ID: 92175447016** Collected: 10/08/13 15:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 05:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 05:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 05:48	1634-04-4	
Naphthalene	**7.8**	ug/L	1.0	0.24	1		10/15/13 05:48	91-20-3	
n-Propylbenzene	**1.9**	ug/L	1.0	0.42	1		10/15/13 05:48	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 05:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 05:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 05:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 05:48	127-18-4	
Toluene	**0.29J**	ug/L	1.0	0.26	1		10/15/13 05:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 05:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 05:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 05:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 05:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 05:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 05:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 05:48	96-18-4	
1,2,3-Trimethylbenzene	**7.2**	ug/L	1.0	0.090	1		10/15/13 05:48	526-73-8	
1,2,4-Trimethylbenzene	**13.0**	ug/L	1.0	0.31	1		10/15/13 05:48	95-63-6	
1,3,5-Trimethylbenzene	**5.0**	ug/L	1.0	0.36	1		10/15/13 05:48	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 05:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 05:48	75-01-4	
Xylene (Total)	**15.8**	ug/L	2.0	0.66	1		10/15/13 05:48	1330-20-7	
m&p-Xylene	**15.8**	ug/L	2.0	0.66	1		10/15/13 05:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 05:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/13 05:48	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		10/15/13 05:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/15/13 05:48	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: RB-1 **Lab ID: 92175447017** Collected: 10/08/13 14:50 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 11:36	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 11:36	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 11:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 11:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 11:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 11:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 11:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 11:36	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 11:36	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 11:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 11:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 11:36	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 11:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 11:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 11:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 11:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 11:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 11:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 11:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 11:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 11:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 11:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 11:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 11:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 11:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 11:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 11:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 11:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 11:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 11:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 11:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 11:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 11:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 11:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 11:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 11:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 11:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 11:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:36	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: RB-1 **Lab ID: 92175447017** Collected: 10/08/13 14:50 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 11:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 11:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 11:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 11:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 11:36	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 11:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 11:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 11:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 11:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 11:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 11:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 11:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 11:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 11:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 11:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 11:36	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 11:36	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 11:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 11:36	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 11:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 11:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 11:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 11:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 11:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/13 11:36	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/12/13 11:36	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/12/13 11:36	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: FB-1 **Lab ID: 92175447018** Collected: 10/08/13 15:00 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 11:53	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 11:53	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 11:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 11:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 11:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 11:53	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 11:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 11:53	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 11:53	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 11:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 11:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 11:53	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 11:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 11:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 11:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 11:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 11:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 11:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 11:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 11:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 11:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 11:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 11:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 11:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 11:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 11:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 11:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 11:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 11:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 11:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 11:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 11:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 11:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 11:53	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 11:53	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 11:53	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 11:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 11:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:53	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: FB-1 **Lab ID: 92175447018** Collected: 10/08/13 15:00 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 11:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 11:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 11:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 11:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 11:53	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 11:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 11:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 11:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 11:53	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 11:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 11:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 11:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 11:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 11:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 11:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 11:53	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 11:53	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 11:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 11:53	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 11:53	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 11:53	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 11:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 11:53	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 11:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/12/13 11:53	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		10/12/13 11:53	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/12/13 11:53	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: TB-1 **Lab ID: 92175447019** Collected: 10/08/13 15:15 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 12:09	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 12:09	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 12:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 12:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 12:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 12:09	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 12:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 12:09	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 12:09	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 12:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 12:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 12:09	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 12:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 12:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 12:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 12:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 12:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 12:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 12:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 12:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 12:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 12:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 12:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 12:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 12:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 12:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 12:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 12:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 12:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 12:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 12:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 12:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 12:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 12:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 12:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 12:09	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 12:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 12:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 12:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 12:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 12:09	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: TB-1 **Lab ID: 92175447019** Collected: 10/08/13 15:15 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 12:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 12:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 12:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 12:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 12:09	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 12:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 12:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 12:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 12:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 12:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 12:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 12:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 12:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 12:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 12:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 12:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 12:09	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 12:09	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 12:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 12:09	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 12:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 12:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 12:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 12:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 12:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/13 12:09	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/12/13 12:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/12/13 12:09	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-1 **Lab ID: 92175447020** Collected: 10/09/13 13:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2		1		10/15/13 14:41	74-84-0	
Ethene	ND	ug/L	6.2		1		10/15/13 14:41	74-85-1	
Methane	ND	ug/L	6.6		1		10/15/13 14:41	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 06:04	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 06:04	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 06:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 06:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 06:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 06:04	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 06:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 06:04	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 06:04	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 06:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 06:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 06:04	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 06:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 06:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 06:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 06:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 06:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 06:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 06:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 06:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 06:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 06:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 06:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 06:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 06:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 06:04	75-35-4	
cis-1,2-Dichloroethene	**0.27J**	ug/L	1.0	0.19	1		10/15/13 06:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 06:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 06:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 06:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 06:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 06:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 06:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 06:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 06:04	108-20-3	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-1 **Lab ID: 92175447020** Collected: 10/09/13 13:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 06:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 06:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 06:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:04	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 06:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 06:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 06:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 06:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 06:04	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 06:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 06:04	630-20-6	
1,1,2,2-Tetrachloroethane	**21.1**	ug/L	1.0	0.40	1		10/15/13 06:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 06:04	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 06:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 06:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 06:04	71-55-6	
1,1,2-Trichloroethane	**0.35J**	ug/L	1.0	0.29	1		10/15/13 06:04	79-00-5	
Trichloroethene	**7.9**	ug/L	1.0	0.47	1		10/15/13 06:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 06:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 06:04	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 06:04	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 06:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 06:04	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 06:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 06:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 06:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 06:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 06:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 06:04	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/15/13 06:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/15/13 06:04	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**21.7**	mg/L	2.0	2.0	1		10/15/13 19:19	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**6.0**	mg/L	0.040	0.040	2		10/11/13 00:47		
Nitrogen, Nitrite	ND	mg/L	0.040	0.040	2		10/11/13 00:47		
Nitrogen, NO2 plus NO3	**6.0**	mg/L	0.040	0.040	2		10/11/13 00:47		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**6.5**	mg/L	1.0	1.0	1		10/14/13 12:59	7440-44-0	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-6 **Lab ID: 92175447021** Collected: 10/09/13 11:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2		1		10/15/13 14:52	74-84-0	
Ethene	ND	ug/L	6.2		1		10/15/13 14:52	74-85-1	
Methane	**478**	ug/L	6.6		1		10/15/13 14:52	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**16.9J**	ug/L	25.0	10.0	1		10/15/13 06:20	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 06:20	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 06:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 06:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 06:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 06:20	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 06:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 06:20	78-93-3	
tert-Butyl Alcohol	**49.4J**	ug/L	50.0	3.6	1		10/15/13 06:20	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 06:20	104-51-8	
sec-Butylbenzene	**1.6**	ug/L	1.0	0.38	1		10/15/13 06:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 06:20	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 06:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 06:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 06:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 06:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 06:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 06:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 06:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 06:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 06:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 06:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 06:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 06:20	75-34-3	
1,2-Dichloroethane	**0.23J**	ug/L	1.0	0.12	1		10/15/13 06:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 06:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 06:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 06:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 06:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 06:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 06:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 06:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 06:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 06:20	10061-02-6	
Diisopropyl ether	**11.7**	ug/L	1.0	0.12	1		10/15/13 06:20	108-20-3	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-6 **Lab ID: 92175447021** Collected: 10/09/13 11:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	**1.5**	ug/L	1.0	0.30	1		10/15/13 06:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 06:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 06:20	591-78-6	
Isopropylbenzene (Cumene)	**1.4**	ug/L	1.0	0.40	1		10/15/13 06:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:20	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 06:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 06:20	108-10-1	
Methyl-tert-butyl ether	**0.56J**	ug/L	1.0	0.21	1		10/15/13 06:20	1634-04-4	
Naphthalene	**16.3**	ug/L	1.0	0.24	1		10/15/13 06:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 06:20	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 06:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 06:20	630-20-6	
1,1,2,2-Tetrachloroethane	**0.76J**	ug/L	1.0	0.40	1		10/15/13 06:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 06:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 06:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 06:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 06:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 06:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 06:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 06:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 06:20	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 06:20	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 06:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 06:20	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 06:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 06:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 06:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 06:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 06:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		10/15/13 06:20	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		10/15/13 06:20	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 06:20	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**12.2**	mg/L	2.0	2.0	1		10/15/13 19:33	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.020	1		10/11/13 00:04		
Nitrogen, Nitrite	ND	mg/L	0.020	0.020	1		10/11/13 00:04		
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	0.020	1		10/11/13 00:04		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**7.2**	mg/L	1.0	1.0	1		10/14/13 13:09	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-7 **Lab ID: 92175447022** Collected: 10/09/13 11:40 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2		1		10/15/13 15:02	74-84-0	
Ethene	ND	ug/L	6.2		1		10/15/13 15:02	74-85-1	
Methane	**14.2**	ug/L	6.6		1		10/15/13 15:02	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 06:36	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 06:36	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 06:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 06:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 06:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 06:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 06:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 06:36	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 06:36	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 06:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 06:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 06:36	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 06:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 06:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 06:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 06:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 06:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 06:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 06:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 06:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 06:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 06:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 06:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 06:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 06:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 06:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 06:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 06:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 06:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 06:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 06:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 06:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 06:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 06:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 06:36	108-20-3	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-7 **Lab ID: 92175447022** Collected: 10/09/13 11:40 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 06:36	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 06:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 06:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 06:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 06:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 06:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 06:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 06:36	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 06:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 06:36	630-20-6	
1,1,2,2-Tetrachloroethane	**0.56J**	ug/L	1.0	0.40	1		10/15/13 06:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 06:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 06:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 06:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 06:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 06:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 06:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 06:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 06:36	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 06:36	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 06:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 06:36	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 06:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 06:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 06:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 06:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 06:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 06:36	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/15/13 06:36	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 06:36	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**31.1**	mg/L	2.0	2.0	1		10/15/13 19:47	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.53**	mg/L	0.020	0.020	1		10/11/13 00:07		
Nitrogen, Nitrite	ND	mg/L	0.020	0.020	1		10/11/13 00:07		
Nitrogen, NO2 plus NO3	**0.53**	mg/L	0.020	0.020	1		10/11/13 00:07		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**10.8**	mg/L	1.0	1.0	1		10/14/13 13:21	7440-44-0	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-12 **Lab ID: 92175447023** Collected: 10/09/13 14:35 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2		1		10/15/13 15:13	74-84-0	
Ethene	ND	ug/L	6.2		1		10/15/13 15:13	74-85-1	
Methane	**765**	ug/L	6.6		1		10/15/13 15:13	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	**26.8**	ug/L	25.0	10.0	1		10/15/13 06:52	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 06:52	107-02-8	
Benzene	**44.0**	ug/L	1.0	0.25	1		10/15/13 06:52	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:52	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 06:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 06:52	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 06:52	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 06:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 06:52	78-93-3	
tert-Butyl Alcohol	**46.2J**	ug/L	50.0	3.6	1		10/15/13 06:52	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 06:52	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 06:52	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 06:52	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 06:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 06:52	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 06:52	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 06:52	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 06:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 06:52	74-87-3	
2-Chlorotoluene	**6.7**	ug/L	1.0	0.35	1		10/15/13 06:52	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 06:52	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 06:52	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 06:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 06:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 06:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 06:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 06:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 06:52	75-35-4	
cis-1,2-Dichloroethene	**21.0**	ug/L	1.0	0.19	1		10/15/13 06:52	156-59-2	
trans-1,2-Dichloroethene	**18.7**	ug/L	1.0	0.49	1		10/15/13 06:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 06:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 06:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 06:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 06:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 06:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 06:52	10061-02-6	
Diisopropyl ether	**3.0**	ug/L	1.0	0.12	1		10/15/13 06:52	108-20-3	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-12 **Lab ID: 92175447023** Collected: 10/09/13 14:35 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 06:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 06:52	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 06:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 06:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 06:52	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 06:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 06:52	108-10-1	
Methyl-tert-butyl ether	**0.39J**	ug/L	1.0	0.21	1		10/15/13 06:52	1634-04-4	
Naphthalene	**0.34J**	ug/L	1.0	0.24	1		10/15/13 06:52	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 06:52	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 06:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 06:52	630-20-6	
1,1,2,2-Tetrachloroethane	**23.6**	ug/L	1.0	0.40	1		10/15/13 06:52	79-34-5	
Tetrachloroethene	**0.54J**	ug/L	1.0	0.46	1		10/15/13 06:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 06:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 06:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 06:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 06:52	71-55-6	
1,1,2-Trichloroethane	**0.67J**	ug/L	1.0	0.29	1		10/15/13 06:52	79-00-5	
Trichloroethene	**21.1**	ug/L	1.0	0.47	1		10/15/13 06:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 06:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 06:52	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 06:52	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 06:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 06:52	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 06:52	108-05-4	
Vinyl chloride	**7.8**	ug/L	1.0	0.62	1		10/15/13 06:52	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 06:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 06:52	179601-23-1	
o-Xylene	**0.77J**	ug/L	1.0	0.23	1		10/15/13 06:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 06:52	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/15/13 06:52	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		10/15/13 06:52	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**9.8**	mg/L	2.0	2.0	1		10/15/13 20:00	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.020	1		10/11/13 00:33		
Nitrogen, Nitrite	**0.060**	mg/L	0.020	0.020	1		10/11/13 00:33		
Nitrogen, NO2 plus NO3	**0.020**	mg/L	0.020	0.020	1		10/11/13 00:33		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**10.2**	mg/L	1.0	1.0	1		10/14/13 13:31	7440-44-0	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-22 **Lab ID: 92175447024** Collected: 10/09/13 13:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Ethane	ND	ug/L	6.2		1		10/15/13 15:24	74-84-0	
Ethene	ND	ug/L	6.2		1		10/15/13 15:24	74-85-1	
Methane	ND	ug/L	6.6		1		10/15/13 15:24	74-82-8	
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 07:09	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 07:09	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 07:09	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:09	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 07:09	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 07:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 07:09	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 07:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 07:09	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 07:09	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 07:09	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 07:09	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 07:09	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 07:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 07:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 07:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 07:09	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 07:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 07:09	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 07:09	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 07:09	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 07:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 07:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 07:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 07:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 07:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 07:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/15/13 07:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 07:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 07:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 07:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 07:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 07:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 07:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 07:09	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 07:09	108-20-3	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-22 **Lab ID: 92175447024** Collected: 10/09/13 13:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 07:09	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 07:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 07:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:09	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 07:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 07:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 07:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 07:09	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 07:09	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 07:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 07:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/15/13 07:09	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 07:09	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 07:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 07:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 07:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/15/13 07:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/15/13 07:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 07:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 07:09	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 07:09	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 07:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 07:09	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 07:09	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 07:09	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 07:09	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 07:09	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 07:09	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/13 07:09	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/15/13 07:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 07:09	2037-26-5	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**21.5**	mg/L	2.0	2.0	1		10/15/13 20:14	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**3.9**	mg/L	0.020	0.020	1		10/11/13 00:20		
Nitrogen, Nitrite	ND	mg/L	0.020	0.020	1		10/11/13 00:20		
Nitrogen, NO2 plus NO3	**3.9**	mg/L	0.020	0.020	1		10/11/13 00:20		
5310B TOC	Analytical Method: SM 5310B								
Total Organic Carbon	**22.5**	mg/L	1.0	1.0	1		10/14/13 14:05	7440-44-0	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-2 **Lab ID: 92175447025** Collected: 10/09/13 09:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	125	50.0	5		10/15/13 07:25	67-64-1	
Acrolein	ND	ug/L	50.0	8.0	5		10/15/13 07:25	107-02-8	
Benzene	**735**	ug/L	5.0	1.2	5		10/15/13 07:25	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	5		10/15/13 07:25	108-86-1	
Bromochloromethane	ND	ug/L	5.0	0.85	5		10/15/13 07:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	0.90	5		10/15/13 07:25	75-27-4	
Bromoform	ND	ug/L	5.0	1.3	5		10/15/13 07:25	75-25-2	
Bromomethane	ND	ug/L	10.0	1.4	5		10/15/13 07:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	4.8	5		10/15/13 07:25	78-93-3	
tert-Butyl Alcohol	ND	ug/L	250	18.1	5		10/15/13 07:25	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	2.0	5		10/15/13 07:25	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.9	5		10/15/13 07:25	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	2.0	5		10/15/13 07:25	98-06-6	
Carbon disulfide	ND	ug/L	10.0	5.8	5		10/15/13 07:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1.2	5		10/15/13 07:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.2	5		10/15/13 07:25	108-90-7	
Chloroethane	ND	ug/L	5.0	2.7	5		10/15/13 07:25	75-00-3	
Chloroform	ND	ug/L	5.0	0.70	5		10/15/13 07:25	67-66-3	
Chloromethane	ND	ug/L	5.0	0.55	5		10/15/13 07:25	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.8	5		10/15/13 07:25	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	5		10/15/13 07:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	12.6	5		10/15/13 07:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.0	5		10/15/13 07:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.4	5		10/15/13 07:25	106-93-4	
Dibromomethane	ND	ug/L	5.0	1.0	5		10/15/13 07:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	5		10/15/13 07:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.2	5		10/15/13 07:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.6	5		10/15/13 07:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.0	5		10/15/13 07:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.6	5		10/15/13 07:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.60	5		10/15/13 07:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	2.8	5		10/15/13 07:25	75-35-4	
cis-1,2-Dichloroethene	**12.3**	ug/L	5.0	0.95	5		10/15/13 07:25	156-59-2	
trans-1,2-Dichloroethene	**4.8J**	ug/L	5.0	2.4	5		10/15/13 07:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.4	5		10/15/13 07:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.4	5		10/15/13 07:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	0.65	5		10/15/13 07:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	2.4	5		10/15/13 07:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	0.65	5		10/15/13 07:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.3	5		10/15/13 07:25	10061-02-6	
Diisopropyl ether	**23.3**	ug/L	5.0	0.60	5		10/15/13 07:25	108-20-3	
Ethylbenzene	**643**	ug/L	5.0	1.5	5		10/15/13 07:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	3.6	5		10/15/13 07:25	87-68-3	
2-Hexanone	ND	ug/L	25.0	2.3	5		10/15/13 07:25	591-78-6	
Isopropylbenzene (Cumene)	**32.8**	ug/L	5.0	2.0	5		10/15/13 07:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	5		10/15/13 07:25	99-87-6	

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(704)875-9092

ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-2 **Lab ID: 92175447025** Collected: 10/09/13 09:12 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	**37.4**	ug/L	10.0	4.8	5		10/15/13 07:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1.6	5		10/15/13 07:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.0	5		10/15/13 07:25	1634-04-4	
Naphthalene	**395**	ug/L	5.0	1.2	5		10/15/13 07:25	91-20-3	
n-Propylbenzene	**66.9**	ug/L	5.0	2.1	5		10/15/13 07:25	103-65-1	
Styrene	ND	ug/L	5.0	1.3	5		10/15/13 07:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.6	5		10/15/13 07:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	2.0	5		10/15/13 07:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	2.3	5		10/15/13 07:25	127-18-4	
Toluene	**23.4**	ug/L	5.0	1.3	5		10/15/13 07:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1.6	5		10/15/13 07:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.8	5		10/15/13 07:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	2.4	5		10/15/13 07:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.4	5		10/15/13 07:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	2.4	5		10/15/13 07:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.0	5		10/15/13 07:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	2.0	5		10/15/13 07:25	96-18-4	
1,2,3-Trimethylbenzene	**157**	ug/L	5.0	0.45	5		10/15/13 07:25	526-73-8	
1,2,4-Trimethylbenzene	**490**	ug/L	5.0	1.6	5		10/15/13 07:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.8	5		10/15/13 07:25	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1.8	5		10/15/13 07:25	108-05-4	
Vinyl chloride	ND	ug/L	5.0	3.1	5		10/15/13 07:25	75-01-4	
Xylene (Total)	**469**	ug/L	10.0	3.3	5		10/15/13 07:25	1330-20-7	
m&p-Xylene	**452**	ug/L	10.0	3.3	5		10/15/13 07:25	179601-23-1	
o-Xylene	**16.2**	ug/L	5.0	1.2	5		10/15/13 07:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		5		10/15/13 07:25	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		5		10/15/13 07:25	17060-07-0	
Toluene-d8 (S)	96	%	70-130		5		10/15/13 07:25	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-11 **Lab ID: 92175447026** Collected: 10/09/13 10:02 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 07:41	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 07:41	107-02-8	
Benzene	**0.31J**	ug/L	1.0	0.25	1		10/15/13 07:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 07:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 07:41	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 07:41	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 07:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 07:41	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 07:41	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 07:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 07:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 07:41	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 07:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 07:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 07:41	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 07:41	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 07:41	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 07:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 07:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 07:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 07:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 07:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 07:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 07:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 07:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 07:41	75-35-4	
cis-1,2-Dichloroethene	**2.2**	ug/L	1.0	0.19	1		10/15/13 07:41	156-59-2	
trans-1,2-Dichloroethene	**0.51J**	ug/L	1.0	0.49	1		10/15/13 07:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 07:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 07:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 07:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 07:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 07:41	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 07:41	108-20-3	
Ethylbenzene	**0.51J**	ug/L	1.0	0.30	1		10/15/13 07:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 07:41	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 07:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 07:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:41	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-11 **Lab ID: 92175447026** Collected: 10/09/13 10:02 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 07:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 07:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 07:41	1634-04-4	
Naphthalene	**0.70J**	ug/L	1.0	0.24	1		10/15/13 07:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 07:41	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	**101**	ug/L	1.0	0.40	1		10/15/13 07:41	79-34-5	
Tetrachloroethene	**0.51J**	ug/L	1.0	0.46	1		10/15/13 07:41	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 07:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 07:41	71-55-6	
1,1,2-Trichloroethane	**0.94J**	ug/L	1.0	0.29	1		10/15/13 07:41	79-00-5	
Trichloroethene	**24.1**	ug/L	1.0	0.47	1		10/15/13 07:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 07:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 07:41	96-18-4	
1,2,3-Trimethylbenzene	**0.16J**	ug/L	1.0	0.090	1		10/15/13 07:41	526-73-8	
1,2,4-Trimethylbenzene	**0.41J**	ug/L	1.0	0.31	1		10/15/13 07:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 07:41	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 07:41	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 07:41	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 07:41	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 07:41	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 07:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/15/13 07:41	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/15/13 07:41	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 07:41	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-13 **Lab ID: 92175447027** Collected: 10/09/13 09:00 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 07:57	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 07:57	107-02-8	
Benzene	**0.27J**	ug/L	1.0	0.25	1		10/15/13 07:57	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:57	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 07:57	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 07:57	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 07:57	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 07:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 07:57	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 07:57	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 07:57	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 07:57	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 07:57	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 07:57	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 07:57	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 07:57	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 07:57	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 07:57	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 07:57	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 07:57	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 07:57	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 07:57	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 07:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 07:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 07:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 07:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 07:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 07:57	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.19	1		10/15/13 07:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 07:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 07:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 07:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 07:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 07:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 07:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 07:57	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 07:57	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 07:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 07:57	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 07:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 07:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 07:57	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-13 **Lab ID: 92175447027** Collected: 10/09/13 09:00 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 07:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 07:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 07:57	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 07:57	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 07:57	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 07:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 07:57	630-20-6	
1,1,2,2-Tetrachloroethane	**91.3**	ug/L	1.0	0.40	1		10/15/13 07:57	79-34-5	
Tetrachloroethene	**0.53J**	ug/L	1.0	0.46	1		10/15/13 07:57	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 07:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 07:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 07:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 07:57	71-55-6	
1,1,2-Trichloroethane	**0.92J**	ug/L	1.0	0.29	1		10/15/13 07:57	79-00-5	
Trichloroethene	**11.8**	ug/L	1.0	0.47	1		10/15/13 07:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 07:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 07:57	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 07:57	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 07:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 07:57	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 07:57	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 07:57	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 07:57	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 07:57	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 07:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/15/13 07:57	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/15/13 07:57	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/15/13 07:57	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-13 DUP **Lab ID: 92175447028** Collected: 10/09/13 09:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 08:13	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 08:13	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 08:13	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:13	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 08:13	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 08:13	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 08:13	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 08:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 08:13	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/15/13 08:13	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 08:13	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 08:13	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 08:13	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 08:13	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 08:13	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 08:13	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 08:13	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 08:13	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 08:13	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 08:13	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 08:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 08:13	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 08:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 08:13	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 08:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 08:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 08:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 08:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 08:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 08:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 08:13	75-35-4	
cis-1,2-Dichloroethene	**1.2**	ug/L	1.0	0.19	1		10/15/13 08:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 08:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 08:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 08:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 08:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 08:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 08:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 08:13	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/15/13 08:13	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 08:13	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 08:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 08:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 08:13	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-13 DUP **Lab ID: 92175447028** Collected: 10/09/13 09:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 08:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 08:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/15/13 08:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/15/13 08:13	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 08:13	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 08:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 08:13	630-20-6	
1,1,2,2-Tetrachloroethane	**91.3**	ug/L	1.0	0.40	1		10/15/13 08:13	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/15/13 08:13	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 08:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 08:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 08:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 08:13	71-55-6	
1,1,2-Trichloroethane	**0.88J**	ug/L	1.0	0.29	1		10/15/13 08:13	79-00-5	
Trichloroethene	**11.2**	ug/L	1.0	0.47	1		10/15/13 08:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 08:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 08:13	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 08:13	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 08:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 08:13	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 08:13	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 08:13	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 08:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 08:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 08:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/13 08:13	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/15/13 08:13	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 08:13	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-18 **Lab ID: 92175447029** Collected: 10/09/13 10:20 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/15/13 08:29	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/15/13 08:29	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/15/13 08:29	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:29	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/15/13 08:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/15/13 08:29	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/15/13 08:29	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/15/13 08:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/15/13 08:29	78-93-3	
tert-Butyl Alcohol	**45.6J**	ug/L	50.0	3.6	1		10/15/13 08:29	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/15/13 08:29	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/15/13 08:29	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/15/13 08:29	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/15/13 08:29	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/15/13 08:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/15/13 08:29	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/15/13 08:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/15/13 08:29	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/15/13 08:29	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/15/13 08:29	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/15/13 08:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/15/13 08:29	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/15/13 08:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/15/13 08:29	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/15/13 08:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/15/13 08:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 08:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/15/13 08:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/15/13 08:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/15/13 08:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/15/13 08:29	75-35-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.19	1		10/15/13 08:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/15/13 08:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/15/13 08:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/15/13 08:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/15/13 08:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/15/13 08:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/15/13 08:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/15/13 08:29	10061-02-6	
Diisopropyl ether	**0.14J**	ug/L	1.0	0.12	1		10/15/13 08:29	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/15/13 08:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/15/13 08:29	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/15/13 08:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/15/13 08:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/15/13 08:29	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: MW-18 **Lab ID: 92175447029** Collected: 10/09/13 10:20 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/15/13 08:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/15/13 08:29	108-10-1	
Methyl-tert-butyl ether	**0.27J**	ug/L	1.0	0.21	1		10/15/13 08:29	1634-04-4	
Naphthalene	**0.35J**	ug/L	1.0	0.24	1		10/15/13 08:29	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/15/13 08:29	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/15/13 08:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/15/13 08:29	630-20-6	
1,1,2,2-Tetrachloroethane	**117**	ug/L	1.0	0.40	1		10/15/13 08:29	79-34-5	
Tetrachloroethene	**0.97J**	ug/L	1.0	0.46	1		10/15/13 08:29	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/15/13 08:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/15/13 08:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/15/13 08:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/15/13 08:29	71-55-6	
1,1,2-Trichloroethane	**1.1**	ug/L	1.0	0.29	1		10/15/13 08:29	79-00-5	
Trichloroethene	**23.4**	ug/L	1.0	0.47	1		10/15/13 08:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/15/13 08:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/15/13 08:29	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/15/13 08:29	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/15/13 08:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/15/13 08:29	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/15/13 08:29	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/15/13 08:29	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/15/13 08:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/15/13 08:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/15/13 08:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/15/13 08:29	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/15/13 08:29	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/15/13 08:29	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: RB-2 **Lab ID: 92175447030** Collected: 10/09/13 09:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 10:48	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 10:48	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 10:48	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 10:48	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 10:48	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 10:48	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 10:48	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 10:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 10:48	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 10:48	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 10:48	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 10:48	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 10:48	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 10:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 10:48	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 10:48	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 10:48	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 10:48	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 10:48	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 10:48	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 10:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 10:48	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 10:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 10:48	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 10:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 10:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 10:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 10:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 10:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 10:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 10:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 10:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 10:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 10:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 10:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 10:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 10:48	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 10:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 10:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 10:48	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 10:48	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 10:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 10:48	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 10:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 10:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 10:48	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: RB-2 **Lab ID: 92175447030** Collected: 10/09/13 09:30 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 10:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 10:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 10:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 10:48	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 10:48	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 10:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 10:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 10:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 10:48	127-18-4	
Toluene	**0.60J**	ug/L	1.0	0.26	1		10/12/13 10:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 10:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 10:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 10:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 10:48	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 10:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 10:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 10:48	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 10:48	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 10:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 10:48	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 10:48	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 10:48	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 10:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 10:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 10:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/12/13 10:48	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/12/13 10:48	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/12/13 10:48	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: FB-2 **Lab ID: 92175447031** Collected: 10/09/13 09:15 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 11:04	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 11:04	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 11:04	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:04	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 11:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 11:04	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 11:04	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 11:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 11:04	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 11:04	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 11:04	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 11:04	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 11:04	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 11:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 11:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 11:04	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 11:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 11:04	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 11:04	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 11:04	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 11:04	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 11:04	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 11:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 11:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 11:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 11:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 11:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 11:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 11:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 11:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 11:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 11:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 11:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 11:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 11:04	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 11:04	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 11:04	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 11:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 11:04	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:04	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: FB-2 **Lab ID: 92175447031** Collected: 10/09/13 09:15 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 11:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 11:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 11:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 11:04	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 11:04	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 11:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 11:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 11:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 11:04	127-18-4	
Toluene	**0.65J**	ug/L	1.0	0.26	1		10/12/13 11:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 11:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 11:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 11:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 11:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 11:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 11:04	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 11:04	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 11:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 11:04	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 11:04	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 11:04	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 11:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 11:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 11:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/12/13 11:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		10/12/13 11:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/12/13 11:04	2037-26-5	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: TB-2 **Lab ID: 92175447032** Collected: 10/09/13 15:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		10/12/13 11:20	67-64-1	
Acrolein	ND	ug/L	10.0	1.6	1		10/12/13 11:20	107-02-8	
Benzene	ND	ug/L	1.0	0.25	1		10/12/13 11:20	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:20	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		10/12/13 11:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		10/12/13 11:20	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		10/12/13 11:20	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		10/12/13 11:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		10/12/13 11:20	78-93-3	
tert-Butyl Alcohol	ND	ug/L	50.0	3.6	1		10/12/13 11:20	75-65-0	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		10/12/13 11:20	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		10/12/13 11:20	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		10/12/13 11:20	98-06-6	
Carbon disulfide	ND	ug/L	2.0	1.2	1		10/12/13 11:20	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		10/12/13 11:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		10/12/13 11:20	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		10/12/13 11:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		10/12/13 11:20	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		10/12/13 11:20	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		10/12/13 11:20	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	2.5	1		10/12/13 11:20	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		10/12/13 11:20	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.21	1		10/12/13 11:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		10/12/13 11:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		10/12/13 11:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/13 11:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		10/12/13 11:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		10/12/13 11:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		10/12/13 11:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		10/12/13 11:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		10/12/13 11:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		10/12/13 11:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		10/12/13 11:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		10/12/13 11:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		10/12/13 11:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		10/12/13 11:20	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/13 11:20	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/13 11:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.71	1		10/12/13 11:20	87-68-3	
2-Hexanone	ND	ug/L	5.0	0.46	1		10/12/13 11:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		10/12/13 11:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		10/12/13 11:20	99-87-6	

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ANALYTICAL RESULTS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Sample: TB-2 **Lab ID: 92175447032** Collected: 10/09/13 15:05 Received: 10/10/13 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260								
Methylene Chloride	ND	ug/L	2.0	0.97	1		10/12/13 11:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		10/12/13 11:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/12/13 11:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/12/13 11:20	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		10/12/13 11:20	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		10/12/13 11:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.33	1		10/12/13 11:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		10/12/13 11:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		10/12/13 11:20	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		10/12/13 11:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		10/12/13 11:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		10/12/13 11:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		10/12/13 11:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		10/12/13 11:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		10/12/13 11:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		10/12/13 11:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		10/12/13 11:20	96-18-4	
1,2,3-Trimethylbenzene	ND	ug/L	1.0	0.090	1		10/12/13 11:20	526-73-8	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		10/12/13 11:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		10/12/13 11:20	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		10/12/13 11:20	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		10/12/13 11:20	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		10/12/13 11:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/12/13 11:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/12/13 11:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/13 11:20	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/12/13 11:20	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		10/12/13 11:20	2037-26-5	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: AIR/18477 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

METHOD BLANK: 1552384 Matrix: Water
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	6.2	10/15/13 11:47	
Ethene	ug/L	ND	6.2	10/15/13 11:47	
Methane	ug/L	ND	6.6	10/15/13 11:47	

LABORATORY CONTROL SAMPLE & LCSD: 1552385 1552386

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	107	109	94	96	85-115	2	20	
Ethene	ug/L	106	99.5	102	94	96	85-115	2	20	
Methane	ug/L	60.7	55.7	58.5	92	96	85-115	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1552387 1552388

Parameter	Units	60155138002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	2.0J	114	114	128	103	111	89	63-129	22	20	R1
Ethene	ug/L	0.0J	106	106	116	95.1	110	90	63-126	20	20	
Methane	ug/L	1080	60.7	60.7	1350	873	444	-336	30-150	43	20	M0,R1

SAMPLE DUPLICATE: 1552389

Parameter	Units	10245599001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		20	
Ethene	ug/L	ND	ND		20	
Methane	ug/L	9.9	10.3	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: MSV/24531 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92175447001, 92175447002, 92175447003, 92175447004, 92175447005, 92175447006, 92175447007, 92175447008, 92175447017, 92175447018, 92175447019, 92175447030, 92175447031, 92175447032

METHOD BLANK: 1064525 Matrix: Water
Associated Lab Samples: 92175447001, 92175447002, 92175447003, 92175447004, 92175447005, 92175447006, 92175447007, 92175447008, 92175447017, 92175447018, 92175447019, 92175447030, 92175447031, 92175447032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,1-Dichloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,1-Dichloroethene	ug/L	ND	1.0	10/12/13 10:32	
1,1-Dichloropropene	ug/L	ND	1.0	10/12/13 10:32	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/12/13 10:32	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	10/12/13 10:32	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/12/13 10:32	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/12/13 10:32	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/12/13 10:32	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
1,2-Dichloroethane	ug/L	ND	1.0	10/12/13 10:32	
1,2-Dichloropropane	ug/L	ND	1.0	10/12/13 10:32	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/12/13 10:32	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
1,3-Dichloropropane	ug/L	ND	1.0	10/12/13 10:32	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
2,2-Dichloropropane	ug/L	ND	1.0	10/12/13 10:32	
2-Butanone (MEK)	ug/L	ND	5.0	10/12/13 10:32	
2-Chlorotoluene	ug/L	ND	1.0	10/12/13 10:32	
2-Hexanone	ug/L	ND	5.0	10/12/13 10:32	
4-Chlorotoluene	ug/L	ND	1.0	10/12/13 10:32	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/12/13 10:32	
Acetone	ug/L	ND	25.0	10/12/13 10:32	
Acrolein	ug/L	ND	10.0	10/12/13 10:32	
Benzene	ug/L	ND	1.0	10/12/13 10:32	
Bromobenzene	ug/L	ND	1.0	10/12/13 10:32	
Bromochloromethane	ug/L	ND	1.0	10/12/13 10:32	
Bromodichloromethane	ug/L	ND	1.0	10/12/13 10:32	
Bromoform	ug/L	ND	1.0	10/12/13 10:32	
Bromomethane	ug/L	ND	2.0	10/12/13 10:32	
Carbon disulfide	ug/L	ND	2.0	10/12/13 10:32	
Carbon tetrachloride	ug/L	ND	1.0	10/12/13 10:32	
Chlorobenzene	ug/L	ND	1.0	10/12/13 10:32	
Chloroethane	ug/L	ND	1.0	10/12/13 10:32	
Chloroform	ug/L	ND	1.0	10/12/13 10:32	
Chloromethane	ug/L	ND	1.0	10/12/13 10:32	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

METHOD BLANK: 1064525 Matrix: Water

Associated Lab Samples: 92175447001, 92175447002, 92175447003, 92175447004, 92175447005, 92175447006, 92175447007, 92175447008, 92175447017, 92175447018, 92175447019, 92175447030, 92175447031, 92175447032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/12/13 10:32	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/12/13 10:32	
Dibromochloromethane	ug/L	ND	1.0	10/12/13 10:32	
Dibromomethane	ug/L	ND	1.0	10/12/13 10:32	
Dichlorodifluoromethane	ug/L	ND	1.0	10/12/13 10:32	
Diisopropyl ether	ug/L	ND	1.0	10/12/13 10:32	
Ethylbenzene	ug/L	ND	1.0	10/12/13 10:32	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/12/13 10:32	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/12/13 10:32	
m&p-Xylene	ug/L	ND	2.0	10/12/13 10:32	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/12/13 10:32	
Methylene Chloride	ug/L	ND	2.0	10/12/13 10:32	
n-Butylbenzene	ug/L	ND	1.0	10/12/13 10:32	
n-Propylbenzene	ug/L	ND	1.0	10/12/13 10:32	
Naphthalene	ug/L	ND	1.0	10/12/13 10:32	
o-Xylene	ug/L	ND	1.0	10/12/13 10:32	
p-Isopropyltoluene	ug/L	ND	1.0	10/12/13 10:32	
sec-Butylbenzene	ug/L	ND	1.0	10/12/13 10:32	
Styrene	ug/L	ND	1.0	10/12/13 10:32	
tert-Butyl Alcohol	ug/L	ND	50.0	10/12/13 10:32	
tert-Butylbenzene	ug/L	ND	1.0	10/12/13 10:32	
Tetrachloroethene	ug/L	ND	1.0	10/12/13 10:32	
Toluene	ug/L	ND	1.0	10/12/13 10:32	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/12/13 10:32	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/12/13 10:32	
Trichloroethene	ug/L	ND	1.0	10/12/13 10:32	
Trichlorofluoromethane	ug/L	ND	1.0	10/12/13 10:32	
Vinyl acetate	ug/L	ND	2.0	10/12/13 10:32	
Vinyl chloride	ug/L	ND	1.0	10/12/13 10:32	
Xylene (Total)	ug/L	ND	2.0	10/12/13 10:32	
1,2-Dichloroethane-d4 (S)	%	106	70-130	10/12/13 10:32	
4-Bromofluorobenzene (S)	%	95	70-130	10/12/13 10:32	
Toluene-d8 (S)	%	97	70-130	10/12/13 10:32	

LABORATORY CONTROL SAMPLE: 1064526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.6	107	70-130	
1,1,1-Trichloroethane	ug/L	50	54.5	109	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.7	109	70-130	
1,1,2-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethane	ug/L	50	54.8	110	70-130	
1,1-Dichloroethene	ug/L	50	54.7	109	70-132	
1,1-Dichloropropene	ug/L	50	60.0	120	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1064526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	56.7	113	70-135	
1,2,3-Trichloropropane	ug/L	50	58.2	116	70-130	
1,2,3-Trimethylbenzene	ug/L	50	54.4	109	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.5	113	70-134	
1,2,4-Trimethylbenzene	ug/L	50	56.3	113	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	57.8	116	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.6	113	70-130	
1,2-Dichlorobenzene	ug/L	50	57.7	115	70-130	
1,2-Dichloroethane	ug/L	50	51.9	104	70-130	
1,2-Dichloropropane	ug/L	50	59.3	119	70-130	
1,3,5-Trimethylbenzene	ug/L	50	55.4	111	70-130	
1,3-Dichlorobenzene	ug/L	50	54.8	110	70-130	
1,3-Dichloropropane	ug/L	50	60.5	121	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
2,2-Dichloropropane	ug/L	50	42.5	85	58-145	
2-Butanone (MEK)	ug/L	100	130	130	70-145	
2-Chlorotoluene	ug/L	50	61.8	124	70-130	
2-Hexanone	ug/L	100	124	124	70-144	
4-Chlorotoluene	ug/L	50	58.1	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	119	119	70-140	
Acetone	ug/L	100	109	109	50-175	
Acrolein	ug/L	250	406	162	70-130	F3,L3
Benzene	ug/L	50	54.0	108	70-130	
Bromobenzene	ug/L	50	54.9	110	70-130	
Bromochloromethane	ug/L	50	51.7	103	70-130	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	51.5	103	70-130	
Bromomethane	ug/L	50	41.7	83	54-130	
Carbon disulfide	ug/L	50	54.7	109	70-131	
Carbon tetrachloride	ug/L	50	50.4	101	70-132	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	37.7	75	64-134	
Chloroform	ug/L	50	54.2	108	70-130	
Chloromethane	ug/L	50	57.1	114	64-130	
cis-1,2-Dichloroethene	ug/L	50	56.3	113	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.1	110	70-130	
Dibromochloromethane	ug/L	50	54.1	108	70-130	
Dibromomethane	ug/L	50	49.4	99	70-131	
Dichlorodifluoromethane	ug/L	50	55.8	112	56-130	
Diisopropyl ether	ug/L	50	62.5	125	70-130	
Ethylbenzene	ug/L	50	53.1	106	70-130	
Hexachloro-1,3-butadiene	ug/L	50	49.1	98	70-130	
Isopropylbenzene (Cumene)	ug/L	50	59.9	120	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	57.5	115	70-130	
Methylene Chloride	ug/L	50	63.4	127	63-130	
n-Butylbenzene	ug/L	50	54.5	109	70-130	
n-Propylbenzene	ug/L	50	57.2	114	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1064526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	60.8	122	70-138	
o-Xylene	ug/L	50	60.6	121	70-130	
p-Isopropyltoluene	ug/L	50	57.1	114	70-130	
sec-Butylbenzene	ug/L	50	58.6	117	70-130	
Styrene	ug/L	50	56.9	114	70-130	
tert-Butyl Alcohol	ug/L	500	630	126	70-130	
tert-Butylbenzene	ug/L	50	59.3	119	70-130	
Tetrachloroethene	ug/L	50	54.0	108	70-130	
Toluene	ug/L	50	51.0	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.2	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.5	115	70-132	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	53.9	108	62-133	
Vinyl acetate	ug/L	100	110	110	66-157	
Vinyl chloride	ug/L	50	52.7	105	69-130	
Xylene (Total)	ug/L	150	171	114	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1065471 1065472

Parameter	Units	92175447007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	53.6	53.3	107	107	70-166	1	30	
Benzene	ug/L	ND	50	50	60.8	58.2	122	116	70-148	4	30	
Chlorobenzene	ug/L	ND	50	50	57.2	56.3	114	113	70-146	2	30	
Toluene	ug/L	ND	50	50	54.6	53.1	109	106	70-155	3	30	
Trichloroethene	ug/L	ND	50	50	62.8	60.8	126	122	69-151	3	30	
1,2-Dichloroethane-d4 (S)	%						94	94	70-130			
4-Bromofluorobenzene (S)	%						101	102	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: MSV/24532 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92175447015, 92175447016, 92175447020, 92175447021, 92175447022, 92175447023, 92175447024, 92175447025, 92175447026, 92175447027, 92175447028, 92175447029

METHOD BLANK: 1064542 — Matrix: Water
Associated Lab Samples: 92175447015, 92175447016, 92175447020, 92175447021, 92175447022, 92175447023, 92175447024, 92175447025, 92175447026, 92175447027, 92175447028, 92175447029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,1-Dichloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,1-Dichloroethene	ug/L	ND	1.0	10/15/13 03:39	
1,1-Dichloropropene	ug/L	ND	1.0	10/15/13 03:39	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/15/13 03:39	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:39	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/15/13 03:39	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/15/13 03:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
1,2-Dichloroethane	ug/L	ND	1.0	10/15/13 03:39	
1,2-Dichloropropane	ug/L	ND	1.0	10/15/13 03:39	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
1,3-Dichloropropane	ug/L	ND	1.0	10/15/13 03:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
2,2-Dichloropropane	ug/L	ND	1.0	10/15/13 03:39	
2-Butanone (MEK)	ug/L	ND	5.0	10/15/13 03:39	
2-Chlorotoluene	ug/L	ND	1.0	10/15/13 03:39	
2-Hexanone	ug/L	ND	5.0	10/15/13 03:39	
4-Chlorotoluene	ug/L	ND	1.0	10/15/13 03:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/15/13 03:39	
Acetone	ug/L	ND	25.0	10/15/13 03:39	
Acrolein	ug/L	ND	10.0	10/15/13 03:39	
Benzene	ug/L	ND	1.0	10/15/13 03:39	
Bromobenzene	ug/L	ND	1.0	10/15/13 03:39	
Bromochloromethane	ug/L	ND	1.0	10/15/13 03:39	
Bromodichloromethane	ug/L	ND	1.0	10/15/13 03:39	
Bromoform	ug/L	ND	1.0	10/15/13 03:39	
Bromomethane	ug/L	ND	2.0	10/15/13 03:39	
Carbon disulfide	ug/L	ND	2.0	10/15/13 03:39	
Carbon tetrachloride	ug/L	ND	1.0	10/15/13 03:39	
Chlorobenzene	ug/L	ND	1.0	10/15/13 03:39	
Chloroethane	ug/L	ND	1.0	10/15/13 03:39	
Chloroform	ug/L	ND	1.0	10/15/13 03:39	
Chloromethane	ug/L	ND	1.0	10/15/13 03:39	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

METHOD BLANK: 1064542 Matrix: Water

Associated Lab Samples: 92175447015, 92175447016, 92175447020, 92175447021, 92175447022, 92175447023, 92175447024, 92175447025, 92175447026, 92175447027, 92175447028, 92175447029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 03:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 03:39	
Dibromochloromethane	ug/L	ND	1.0	10/15/13 03:39	
Dibromomethane	ug/L	ND	1.0	10/15/13 03:39	
Dichlorodifluoromethane	ug/L	ND	1.0	10/15/13 03:39	
Diisopropyl ether	ug/L	ND	1.0	10/15/13 03:39	
Ethylbenzene	ug/L	ND	1.0	10/15/13 03:39	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/15/13 03:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/15/13 03:39	
m&p-Xylene	ug/L	ND	2.0	10/15/13 03:39	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/15/13 03:39	
Methylene Chloride	ug/L	ND	2.0	10/15/13 03:39	
n-Butylbenzene	ug/L	ND	1.0	10/15/13 03:39	
n-Propylbenzene	ug/L	ND	1.0	10/15/13 03:39	
Naphthalene	ug/L	ND	1.0	10/15/13 03:39	
o-Xylene	ug/L	ND	1.0	10/15/13 03:39	
p-Isopropyltoluene	ug/L	ND	1.0	10/15/13 03:39	
sec-Butylbenzene	ug/L	ND	1.0	10/15/13 03:39	
Styrene	ug/L	ND	1.0	10/15/13 03:39	
tert-Butyl Alcohol	ug/L	ND	50.0	10/15/13 03:39	
tert-Butylbenzene	ug/L	ND	1.0	10/15/13 03:39	
Tetrachloroethene	ug/L	ND	1.0	10/15/13 03:39	
Toluene	ug/L	ND	1.0	10/15/13 03:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 03:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 03:39	
Trichloroethene	ug/L	ND	1.0	10/15/13 03:39	
Trichlorofluoromethane	ug/L	ND	1.0	10/15/13 03:39	
Vinyl acetate	ug/L	ND	2.0	10/15/13 03:39	
Vinyl chloride	ug/L	ND	1.0	10/15/13 03:39	
Xylene (Total)	ug/L	ND	2.0	10/15/13 03:39	
1,2-Dichloroethane-d4 (S)	%	93	70-130	10/15/13 03:39	
4-Bromofluorobenzene (S)	%	99	70-130	10/15/13 03:39	
Toluene-d8 (S)	%	95	70-130	10/15/13 03:39	

LABORATORY CONTROL SAMPLE: 1064543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	70-130	
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,2-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1-Dichloroethane	ug/L	50	48.6	97	70-130	
1,1-Dichloroethene	ug/L	50	49.0	98	70-132	
1,1-Dichloropropene	ug/L	50	54.1	108	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1064543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichlorobenzene	ug/L	50	57.7	115	70-135	
1,2,3-Trichloropropane	ug/L	50	53.5	107	70-130	
1,2,3-Trimethylbenzene	ug/L	50	52.6	105	70-130	
1,2,4-Trichlorobenzene	ug/L	50	57.5	115	70-134	
1,2,4-Trimethylbenzene	ug/L	50	54.4	109	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.9	108	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	54.6	109	70-130	
1,2-Dichlorobenzene	ug/L	50	57.5	115	70-130	
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
1,2-Dichloropropane	ug/L	50	57.8	116	70-130	
1,3,5-Trimethylbenzene	ug/L	50	54.0	108	70-130	
1,3-Dichlorobenzene	ug/L	50	55.9	112	70-130	
1,3-Dichloropropane	ug/L	50	56.8	114	70-130	
1,4-Dichlorobenzene	ug/L	50	54.7	109	70-130	
2,2-Dichloropropane	ug/L	50	44.0	88	58-145	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Chlorotoluene	ug/L	50	57.2	114	70-130	
2-Hexanone	ug/L	100	115	115	70-144	
4-Chlorotoluene	ug/L	50	55.6	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	70-140	
Acetone	ug/L	100	93.6	94	50-175	
Acrolein	ug/L	250	388	155	70-130	F3,L3
Benzene	ug/L	50	52.2	104	70-130	
Bromobenzene	ug/L	50	52.3	105	70-130	
Bromochloromethane	ug/L	50	48.0	96	70-130	
Bromodichloromethane	ug/L	50	50.1	100	70-130	
Bromoform	ug/L	50	52.4	105	70-130	
Bromomethane	ug/L	50	32.5	65	54-130	
Carbon disulfide	ug/L	50	47.8	96	70-131	
Carbon tetrachloride	ug/L	50	46.6	93	70-132	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	47.8	96	64-134	
Chloroform	ug/L	50	48.8	98	70-130	
Chloromethane	ug/L	50	46.9	94	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.3	101	70-131	
cis-1,3-Dichloropropene	ug/L	50	55.7	111	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dibromomethane	ug/L	50	51.7	103	70-131	
Dichlorodifluoromethane	ug/L	50	45.4	91	56-130	
Diisopropyl ether	ug/L	50	55.3	111	70-130	
Ethylbenzene	ug/L	50	50.1	100	70-130	
Hexachloro-1,3-butadiene	ug/L	50	53.4	107	70-130	
Isopropylbenzene (Cumene)	ug/L	50	56.2	112	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	52.2	104	70-130	
Methylene Chloride	ug/L	50	49.8	100	63-130	
n-Butylbenzene	ug/L	50	55.6	111	70-130	
n-Propylbenzene	ug/L	50	55.5	111	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1064543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	50	57.2	114	70-138	
o-Xylene	ug/L	50	56.0	112	70-130	
p-Isopropyltoluene	ug/L	50	57.4	115	70-130	
sec-Butylbenzene	ug/L	50	57.8	116	70-130	
Styrene	ug/L	50	55.4	111	70-130	
tert-Butyl Alcohol	ug/L	500	583	117	70-130	
tert-Butylbenzene	ug/L	50	57.9	116	70-130	
Tetrachloroethene	ug/L	50	54.7	109	70-130	
Toluene	ug/L	50	50.9	102	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-130	
trans-1,3-Dichloropropene	ug/L	50	57.9	116	70-132	
Trichloroethene	ug/L	50	50.9	102	70-130	
Trichlorofluoromethane	ug/L	50	41.1	82	62-133	
Vinyl acetate	ug/L	100	115	115	66-157	
Vinyl chloride	ug/L	50	49.5	99	69-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1065703 1065704

Parameter	Units	92175447020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	56.1	54.3	112	109	70-166	3	30	
Benzene	ug/L	ND	50	50	57.6	54.8	115	110	70-148	5	30	
Chlorobenzene	ug/L	ND	50	50	54.9	52.9	110	106	70-146	4	30	
Toluene	ug/L	ND	50	50	52.9	50.5	106	101	70-155	5	30	
Trichloroethene	ug/L	7.9	50	50	66.2	64.1	117	113	69-151	3	30	
1,2-Dichloroethane-d4 (S)	%						95	97	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: MSV/24543 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92175447009, 92175447010, 92175447011, 92175447012

METHOD BLANK: 1065466 Matrix: Water
Associated Lab Samples: 92175447009, 92175447010, 92175447011, 92175447012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,1-Dichloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,1-Dichloroethene	ug/L	ND	1.0	10/15/13 03:23	
1,1-Dichloropropene	ug/L	ND	1.0	10/15/13 03:23	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/15/13 03:23	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:23	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/15/13 03:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/15/13 03:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
1,2-Dichloroethane	ug/L	ND	1.0	10/15/13 03:23	
1,2-Dichloropropane	ug/L	ND	1.0	10/15/13 03:23	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/15/13 03:23	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
1,3-Dichloropropane	ug/L	ND	1.0	10/15/13 03:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
2,2-Dichloropropane	ug/L	ND	1.0	10/15/13 03:23	
2-Butanone (MEK)	ug/L	ND	5.0	10/15/13 03:23	
2-Chlorotoluene	ug/L	ND	1.0	10/15/13 03:23	
2-Hexanone	ug/L	ND	5.0	10/15/13 03:23	
4-Chlorotoluene	ug/L	ND	1.0	10/15/13 03:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/15/13 03:23	
Acetone	ug/L	ND	25.0	10/15/13 03:23	
Acrolein	ug/L	ND	10.0	10/15/13 03:23	
Benzene	ug/L	ND	1.0	10/15/13 03:23	
Bromobenzene	ug/L	ND	1.0	10/15/13 03:23	
Bromochloromethane	ug/L	ND	1.0	10/15/13 03:23	
Bromodichloromethane	ug/L	ND	1.0	10/15/13 03:23	
Bromoform	ug/L	ND	1.0	10/15/13 03:23	
Bromomethane	ug/L	ND	2.0	10/15/13 03:23	
Carbon disulfide	ug/L	ND	2.0	10/15/13 03:23	
Carbon tetrachloride	ug/L	ND	1.0	10/15/13 03:23	
Chlorobenzene	ug/L	ND	1.0	10/15/13 03:23	
Chloroethane	ug/L	ND	1.0	10/15/13 03:23	
Chloroform	ug/L	ND	1.0	10/15/13 03:23	
Chloromethane	ug/L	ND	1.0	10/15/13 03:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 03:23	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 03:23	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

METHOD BLANK: 1065466 Matrix: Water

Associated Lab Samples: 92175447009, 92175447010, 92175447011, 92175447012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/15/13 03:23	
Dibromomethane	ug/L	ND	1.0	10/15/13 03:23	
Dichlorodifluoromethane	ug/L	ND	1.0	10/15/13 03:23	
Diisopropyl ether	ug/L	ND	1.0	10/15/13 03:23	
Ethylbenzene	ug/L	ND	1.0	10/15/13 03:23	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/15/13 03:23	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/15/13 03:23	
m&p-Xylene	ug/L	ND	2.0	10/15/13 03:23	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/15/13 03:23	
Methylene Chloride	ug/L	ND	2.0	10/15/13 03:23	
n-Butylbenzene	ug/L	ND	1.0	10/15/13 03:23	
n-Propylbenzene	ug/L	ND	1.0	10/15/13 03:23	
Naphthalene	ug/L	ND	1.0	10/15/13 03:23	
o-Xylene	ug/L	ND	1.0	10/15/13 03:23	
p-Isopropyltoluene	ug/L	ND	1.0	10/15/13 03:23	
sec-Butylbenzene	ug/L	ND	1.0	10/15/13 03:23	
Styrene	ug/L	ND	1.0	10/15/13 03:23	
tert-Butyl Alcohol	ug/L	ND	50.0	10/15/13 03:23	
tert-Butylbenzene	ug/L	ND	1.0	10/15/13 03:23	
Tetrachloroethene	ug/L	ND	1.0	10/15/13 03:23	
Toluene	ug/L	ND	1.0	10/15/13 03:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 03:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 03:23	
Trichloroethene	ug/L	ND	1.0	10/15/13 03:23	
Trichlorofluoromethane	ug/L	ND	1.0	10/15/13 03:23	
Vinyl acetate	ug/L	ND	2.0	10/15/13 03:23	
Vinyl chloride	ug/L	ND	1.0	10/15/13 03:23	
Xylene (Total)	ug/L	ND	2.0	10/15/13 03:23	
1,2-Dichloroethane-d4 (S)	%	92	70-130	10/15/13 03:23	
4-Bromofluorobenzene (S)	%	100	70-130	10/15/13 03:23	
Toluene-d8 (S)	%	96	70-130	10/15/13 03:23	

LABORATORY CONTROL SAMPLE: 1065467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.5	99	70-130	
1,1,1-Trichloroethane	ug/L	50	43.6	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.1	102	70-130	
1,1,2-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1-Dichloroethane	ug/L	50	46.6	93	70-130	
1,1-Dichloroethene	ug/L	50	46.3	93	70-132	
1,1-Dichloropropene	ug/L	50	50.6	101	70-130	
1,2,3-Trichlorobenzene	ug/L	50	55.1	110	70-135	
1,2,3-Trichloropropane	ug/L	50	53.9	108	70-130	
1,2,3-Trimethylbenzene	ug/L	50	50.4	101	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1065467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	54.9	110	70-134	
1,2,4-Trimethylbenzene	ug/L	50	52.4	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.1	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	70-130	
1,2-Dichlorobenzene	ug/L	50	55.0	110	70-130	
1,2-Dichloroethane	ug/L	50	44.0	88	70-130	
1,2-Dichloropropane	ug/L	50	53.9	108	70-130	
1,3,5-Trimethylbenzene	ug/L	50	51.4	103	70-130	
1,3-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,3-Dichloropropane	ug/L	50	54.9	110	70-130	
1,4-Dichlorobenzene	ug/L	50	52.2	104	70-130	
2,2-Dichloropropane	ug/L	50	41.5	83	58-145	
2-Butanone (MEK)	ug/L	100	109	109	70-145	
2-Chlorotoluene	ug/L	50	54.8	110	70-130	
2-Hexanone	ug/L	100	117	117	70-144	
4-Chlorotoluene	ug/L	50	53.4	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	70-140	
Acetone	ug/L	100	98.5	98	50-175	
Acrolein	ug/L	250	396	158	70-130	F3,L3
Benzene	ug/L	50	49.8	100	70-130	
Bromobenzene	ug/L	50	49.7	99	70-130	
Bromochloromethane	ug/L	50	45.0	90	70-130	
Bromodichloromethane	ug/L	50	48.6	97	70-130	
Bromoform	ug/L	50	50.6	101	70-130	
Bromomethane	ug/L	50	26.7	53	54-130	L0
Carbon disulfide	ug/L	50	52.2	104	70-131	
Carbon tetrachloride	ug/L	50	44.6	89	70-132	
Chlorobenzene	ug/L	50	49.4	99	70-130	
Chloroethane	ug/L	50	46.2	92	64-134	
Chloroform	ug/L	50	45.5	91	70-130	
Chloromethane	ug/L	50	44.7	89	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	70-131	
cis-1,3-Dichloropropene	ug/L	50	53.0	106	70-130	
Dibromochloromethane	ug/L	50	50.1	100	70-130	
Dibromomethane	ug/L	50	49.2	98	70-131	
Dichlorodifluoromethane	ug/L	50	43.2	86	56-130	
Diisopropyl ether	ug/L	50	52.6	105	70-130	
Ethylbenzene	ug/L	50	48.0	96	70-130	
Hexachloro-1,3-butadiene	ug/L	50	50.0	100	70-130	
Isopropylbenzene (Cumene)	ug/L	50	54.1	108	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	70-130	
Methylene Chloride	ug/L	50	49.2	98	63-130	
n-Butylbenzene	ug/L	50	52.5	105	70-130	
n-Propylbenzene	ug/L	50	52.4	105	70-130	
Naphthalene	ug/L	50	56.7	113	70-138	
o-Xylene	ug/L	50	54.2	108	70-130	
p-Isopropyltoluene	ug/L	50	54.2	108	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1065467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	54.3	109	70-130	
Styrene	ug/L	50	53.0	106	70-130	
tert-Butyl Alcohol	ug/L	500	609	122	70-130	
tert-Butylbenzene	ug/L	50	55.0	110	70-130	
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	48.0	96	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	70-132	
Trichloroethene	ug/L	50	48.8	98	70-130	
Trichlorofluoromethane	ug/L	50	39.4	79	62-133	
Vinyl acetate	ug/L	100	113	113	66-157	
Vinyl chloride	ug/L	50	46.2	92	69-130	
Xylene (Total)	ug/L	150	155	103	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066157 1066158

Parameter	Units	92175447009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	51.1	48.3	102	97	70-166	6	30	
Benzene	ug/L	ND	50	50	57.3	54.7	115	109	70-148	5	30	
Chlorobenzene	ug/L	ND	50	50	53.8	51.6	108	103	70-146	4	30	
Toluene	ug/L	ND	50	50	51.3	49.5	103	99	70-155	4	30	
Trichloroethene	ug/L	ND	50	50	57.5	56.2	115	112	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						93	95	70-130			
4-Bromofluorobenzene (S)	%						100	98	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: MSV/24558
Analysis Method: EPA 8260
QC Batch Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92175447013, 92175447014

METHOD BLANK: 1066004
Matrix: Water
Associated Lab Samples: 92175447013, 92175447014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,1,1-Trichloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,1,2-Trichloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,1-Dichloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,1-Dichloroethene	ug/L	ND	1.0	10/15/13 15:58	
1,1-Dichloropropene	ug/L	ND	1.0	10/15/13 15:58	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
1,2,3-Trichloropropane	ug/L	ND	1.0	10/15/13 15:58	
1,2,3-Trimethylbenzene	ug/L	ND	1.0	10/15/13 15:58	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/15/13 15:58	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	10/15/13 15:58	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	10/15/13 15:58	
1,2-Dichlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
1,2-Dichloroethane	ug/L	ND	1.0	10/15/13 15:58	
1,2-Dichloropropane	ug/L	ND	1.0	10/15/13 15:58	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/15/13 15:58	
1,3-Dichlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
1,3-Dichloropropane	ug/L	ND	1.0	10/15/13 15:58	
1,4-Dichlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
2,2-Dichloropropane	ug/L	ND	1.0	10/15/13 15:58	
2-Butanone (MEK)	ug/L	ND	5.0	10/15/13 15:58	
2-Chlorotoluene	ug/L	ND	1.0	10/15/13 15:58	
2-Hexanone	ug/L	ND	5.0	10/15/13 15:58	
4-Chlorotoluene	ug/L	ND	1.0	10/15/13 15:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	10/15/13 15:58	
Acetone	ug/L	ND	25.0	10/15/13 15:58	
Acrolein	ug/L	ND	10.0	10/15/13 15:58	
Benzene	ug/L	ND	1.0	10/15/13 15:58	
Bromobenzene	ug/L	ND	1.0	10/15/13 15:58	
Bromochloromethane	ug/L	ND	1.0	10/15/13 15:58	
Bromodichloromethane	ug/L	ND	1.0	10/15/13 15:58	
Bromoform	ug/L	ND	1.0	10/15/13 15:58	
Bromomethane	ug/L	ND	2.0	10/15/13 15:58	
Carbon disulfide	ug/L	ND	2.0	10/15/13 15:58	
Carbon tetrachloride	ug/L	ND	1.0	10/15/13 15:58	
Chlorobenzene	ug/L	ND	1.0	10/15/13 15:58	
Chloroethane	ug/L	ND	1.0	10/15/13 15:58	
Chloroform	ug/L	ND	1.0	10/15/13 15:58	
Chloromethane	ug/L	ND	1.0	10/15/13 15:58	
cis-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 15:58	
cis-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 15:58	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

METHOD BLANK: 1066004 Matrix: Water

Associated Lab Samples: 92175447013, 92175447014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	10/15/13 15:58	
Dibromomethane	ug/L	ND	1.0	10/15/13 15:58	
Dichlorodifluoromethane	ug/L	ND	1.0	10/15/13 15:58	
Diisopropyl ether	ug/L	ND	1.0	10/15/13 15:58	
Ethylbenzene	ug/L	ND	1.0	10/15/13 15:58	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	10/15/13 15:58	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	10/15/13 15:58	
m&p-Xylene	ug/L	ND	2.0	10/15/13 15:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	10/15/13 15:58	
Methylene Chloride	ug/L	ND	2.0	10/15/13 15:58	
n-Butylbenzene	ug/L	ND	1.0	10/15/13 15:58	
n-Propylbenzene	ug/L	ND	1.0	10/15/13 15:58	
Naphthalene	ug/L	ND	1.0	10/15/13 15:58	
o-Xylene	ug/L	ND	1.0	10/15/13 15:58	
p-Isopropyltoluene	ug/L	ND	1.0	10/15/13 15:58	
sec-Butylbenzene	ug/L	ND	1.0	10/15/13 15:58	
Styrene	ug/L	ND	1.0	10/15/13 15:58	
tert-Butyl Alcohol	ug/L	44.4J	50.0	10/15/13 15:58	
tert-Butylbenzene	ug/L	ND	1.0	10/15/13 15:58	
Tetrachloroethene	ug/L	ND	1.0	10/15/13 15:58	
Toluene	ug/L	ND	1.0	10/15/13 15:58	
trans-1,2-Dichloroethene	ug/L	ND	1.0	10/15/13 15:58	
trans-1,3-Dichloropropene	ug/L	ND	1.0	10/15/13 15:58	
Trichloroethene	ug/L	ND	1.0	10/15/13 15:58	
Trichlorofluoromethane	ug/L	ND	1.0	10/15/13 15:58	
Vinyl acetate	ug/L	ND	2.0	10/15/13 15:58	
Vinyl chloride	ug/L	ND	1.0	10/15/13 15:58	
Xylene (Total)	ug/L	ND	2.0	10/15/13 15:58	
1,2-Dichloroethane-d4 (S)	%	92	70-130	10/15/13 15:58	
4-Bromofluorobenzene (S)	%	99	70-130	10/15/13 15:58	
Toluene-d8 (S)	%	95	70-130	10/15/13 15:58	

LABORATORY CONTROL SAMPLE: 1066005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,1-Trichloroethane	ug/L	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.8	108	70-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	48.2	96	70-130	
1,1-Dichloroethene	ug/L	50	50.8	102	70-132	
1,1-Dichloropropene	ug/L	50	53.6	107	70-130	
1,2,3-Trichlorobenzene	ug/L	50	57.0	114	70-135	
1,2,3-Trichloropropane	ug/L	50	57.0	114	70-130	
1,2,3-Trimethylbenzene	ug/L	50	52.7	105	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1066005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	56.7	113	70-134	
1,2,4-Trimethylbenzene	ug/L	50	53.5	107	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	55.7	111	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.2	110	70-130	
1,2-Dichlorobenzene	ug/L	50	56.6	113	70-130	
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
1,2-Dichloropropane	ug/L	50	57.4	115	70-130	
1,3,5-Trimethylbenzene	ug/L	50	52.9	106	70-130	
1,3-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,3-Dichloropropane	ug/L	50	57.6	115	70-130	
1,4-Dichlorobenzene	ug/L	50	53.3	107	70-130	
2,2-Dichloropropane	ug/L	50	51.0	102	58-145	
2-Butanone (MEK)	ug/L	100	124	124	70-145	
2-Chlorotoluene	ug/L	50	56.5	113	70-130	
2-Hexanone	ug/L	100	123	123	70-144	
4-Chlorotoluene	ug/L	50	55.2	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	70-140	
Acetone	ug/L	100	104	104	50-175	
Acrolein	ug/L	250	446	179	70-130	F3,L3
Benzene	ug/L	50	52.1	104	70-130	
Bromobenzene	ug/L	50	52.8	106	70-130	
Bromochloromethane	ug/L	50	44.6	89	70-130	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	52.7	105	70-130	
Bromomethane	ug/L	50	33.9	68	54-130	
Carbon disulfide	ug/L	50	51.2	102	70-131	
Carbon tetrachloride	ug/L	50	46.7	93	70-132	
Chlorobenzene	ug/L	50	52.0	104	70-130	
Chloroethane	ug/L	50	37.5	75	64-134	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	48.6	97	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-131	
cis-1,3-Dichloropropene	ug/L	50	56.8	114	70-130	
Dibromochloromethane	ug/L	50	51.7	103	70-130	
Dibromomethane	ug/L	50	51.5	103	70-131	
Dichlorodifluoromethane	ug/L	50	49.5	99	56-130	
Diisopropyl ether	ug/L	50	54.7	109	70-130	
Ethylbenzene	ug/L	50	51.0	102	70-130	
Hexachloro-1,3-butadiene	ug/L	50	51.8	104	70-130	
Isopropylbenzene (Cumene)	ug/L	50	57.0	114	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	52.1	104	70-130	
Methylene Chloride	ug/L	50	51.3	103	63-130	
n-Butylbenzene	ug/L	50	55.1	110	70-130	
n-Propylbenzene	ug/L	50	54.0	108	70-130	
Naphthalene	ug/L	50	58.2	116	70-138	
o-Xylene	ug/L	50	57.0	114	70-130	
p-Isopropyltoluene	ug/L	50	56.0	112	70-130	

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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

LABORATORY CONTROL SAMPLE: 1066005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
sec-Butylbenzene	ug/L	50	56.3	113	70-130	
Styrene	ug/L	50	55.1	110	70-130	
tert-Butyl Alcohol	ug/L	500	613	123	70-130	
tert-Butylbenzene	ug/L	50	56.5	113	70-130	
Tetrachloroethene	ug/L	50	55.0	110	70-130	
Toluene	ug/L	50	52.0	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	60.3	121	70-132	
Trichloroethene	ug/L	50	50.9	102	70-130	
Trichlorofluoromethane	ug/L	50	42.9	86	62-133	
Vinyl acetate	ug/L	100	121	121	66-157	
Vinyl chloride	ug/L	50	51.3	103	69-130	
Xylene (Total)	ug/L	150	163	109	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: WETA/16744 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

METHOD BLANK: 1065261 Matrix: Water
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	10/15/13 16:36	

LABORATORY CONTROL SAMPLE: 1065262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1065263 1065264

Parameter	Units	92174721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	8.8	20	20	27.8	27.9	95	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1065265 1065266

Parameter	Units	92175447024 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	21.5	20	20	42.2	42.1	103	103	90-110	0	20	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: WETA/16712 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

METHOD BLANK: 1064024 — Matrix: Water
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	10/10/13 23:58	
Nitrogen, Nitrite	mg/L	ND	0.020	10/10/13 23:58	
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/10/13 23:58	

LABORATORY CONTROL SAMPLE: 1064025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.6	102	90-110	
Nitrogen, Nitrite	mg/L	1	1.0	102	90-110	
Nitrogen, NO2 plus NO3	mg/L	2.5	2.6	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064030 1064031

Parameter	Units	92175142007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	<0.020	2.5	2.5	2.6	2.6	102	103	90-110	0	20	
Nitrogen, Nitrite	mg/L	<0.020	1	1	1.0	1.0	104	104	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	<0.020	2.5	2.5	2.6	2.6	102	103	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064032 1064033

Parameter	Units	92175447020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	6.0	2.5	2.5	8.4	8.5	98	100	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	1	1	1.0	1.0	101	101	90-110	0	20	
Nitrogen, NO2 plus NO3	mg/L	6.0	2.5	2.5	8.4	8.5	98	100	90-110	1	20	

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QUALITY CONTROL DATA

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

QC Batch: WETA/16718 — Analysis Method: SM 5310B
QC Batch Method: SM 5310B — Analysis Description: 5310B TOC
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

METHOD BLANK: 1064203 — Matrix: Water
Associated Lab Samples: 92175447020, 92175447021, 92175447022, 92175447023, 92175447024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	10/14/13 09:46	

LABORATORY CONTROL SAMPLE: 1064204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	23.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064205 1064206

Parameter	Units	92175514001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.3	25	25	23.4	23.5	88	89	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1064207 1064208

Parameter	Units	92175447023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	10.2	25	25	27.6	28.0	70	71	75-125	2	20	M1

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QUALIFIERS

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

F3	The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92175447020	**MW-1**	RSK 175	AIR/18477		
92175447021	**MW-6**	RSK 175	AIR/18477		
92175447022	**MW-7**	RSK 175	AIR/18477		
92175447023	**MW-12**	RSK 175	AIR/18477		
92175447024	**MW-22**	RSK 175	AIR/18477		
92175447001	**MW-3**	EPA 8260	MSV/24531		
92175447002	**MW-4**	EPA 8260	MSV/24531		
92175447003	**MW-5**	EPA 8260	MSV/24531		
92175447004	**MW-8**	EPA 8260	MSV/24531		
92175447005	**MW-9**	EPA 8260	MSV/24531		
92175447006	**MW-10**	EPA 8260	MSV/24531		
92175447007	**MW-14**	EPA 8260	MSV/24531		
92175447008	**MW-15**	EPA 8260	MSV/24531		
92175447009	**MW-16**	EPA 8260	MSV/24543		
92175447010	**MW-16 DUP**	EPA 8260	MSV/24543		
92175447011	**MW-17**	EPA 8260	MSV/24543		
92175447012	**MW-19**	EPA 8260	MSV/24543		
92175447013	**MW-20**	EPA 8260	MSV/24558		
92175447014	**MW-21**	EPA 8260	MSV/24558		
92175447015	**DW-2**	EPA 8260	MSV/24532		
92175447016	**MW-1X**	EPA 8260	MSV/24532		
92175447017	**RB-1**	EPA 8260	MSV/24531		
92175447018	**FB-1**	EPA 8260	MSV/24531		
92175447019	**TB-1**	EPA 8260	MSV/24531		
92175447020	**MW-1**	EPA 8260	MSV/24532		
92175447021	**MW-6**	EPA 8260	MSV/24532		
92175447022	**MW-7**	EPA 8260	MSV/24532		
92175447023	**MW-12**	EPA 8260	MSV/24532		
92175447024	**MW-22**	EPA 8260	MSV/24532		
92175447025	**MW-2**	EPA 8260	MSV/24532		
92175447026	**MW-11**	EPA 8260	MSV/24532		
92175447027	**MW-13**	EPA 8260	MSV/24532		
92175447028	**MW-13 DUP**	EPA 8260	MSV/24532		
92175447029	**MW-18**	EPA 8260	MSV/24532		
92175447030	**RB-2**	EPA 8260	MSV/24531		
92175447031	**FB-2**	EPA 8260	MSV/24531		
92175447032	**TB-2**	EPA 8260	MSV/24531		
92175447020	**MW-1**	EPA 300.0	WETA/16744		
92175447021	**MW-6**	EPA 300.0	WETA/16744		
92175447022	**MW-7**	EPA 300.0	WETA/16744		
92175447023	**MW-12**	EPA 300.0	WETA/16744		
92175447024	**MW-22**	EPA 300.0	WETA/16744		
92175447020	**MW-1**	EPA 353.2	WETA/16712		
92175447021	**MW-6**	EPA 353.2	WETA/16712		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RD Pate 07-7019.9
Pace Project No.: 92175447

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92175447022	**MW-7**	EPA 353.2	WETA/16712		
92175447023	**MW-12**	EPA 353.2	WETA/16712		
92175447024	**MW-22**	EPA 353.2	WETA/16712		
92175447020	**MW-1**	SM 5310B	WETA/16718		
92175447021	**MW-6**	SM 5310B	WETA/16718		
92175447022	**MW-7**	SM 5310B	WETA/16718		
92175447023	**MW-12**	SM 5310B	WETA/16718		
92175447024	**MW-22**	SM 5310B	WETA/16718		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: June 12, 2013 Page 1 of 2
	Document Number: **F-CHR-CS-03-rev.11**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Enviro

Where Received: ☑ Huntersville ☐ Asheville ☐ Eden ☐ Raleigh

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other_____

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

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1301 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor **T1102**: No Correction **T1301**: No Correction

Corrected Cooler Temp.: 4.8 **C** **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: TMD 10/10

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. TMD 10/10
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	**Date:**	10-10-13
SRF Review:	TMD	**Date:**	10-10-13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92175447

92175447

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1750593

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 Monroe Rd, Ste. 175
Charlotte, NC 28270
Email To: Mike McDermott
Phone: 704-540-9396 (~~540-5853~~) Fax:
Requested Due Date/TAT: 5-DAY/standard

Section B Required Project Information:

Report To: Mike McDermott
Copy To: Cliff Lundgren, Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate
Project Number: 07-7019.9

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: EA
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 35223-11

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER IHSB

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-3	WT	G			10/8/13	1540		3				3					X		001
2	MW-4						1618		3				3					X		002
3	MW-5						1725		3				3					X		003
4	MW-8						1657		3				3					X		004
5	MW-9						1117		3				3					X		005
6	MW-10						1635		3				3					X		006
7	MW-14						1030		3				3					X		007
8	MW-15						1145		3				3					X		008
9	MW-16						1305		3				3					X		009
10	MW-16 Dup						1310		3				3					X		010
11	MW-17						1342		3				3					X		011
12	MW-19						1259		3				3					X		012

92175447

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / EA	10/10	1340	[signature] Pace	10/10	1340	4.8	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mike McDermott
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/9/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1750597

Section A Required Client Information:

Company:	EnviroAssessments
Address:	9111 Monroe Rd
	Charlotte, NC 28270
Email To:	Mike McDermott
Phone:	Fax:
Requested Due Date/TAT:	5-DAY/standard

Section B Required Project Information:

Report To:	Mike McDermott
Copy To:	Cliff Lundgren
	Amanda Petoskey
Purchase Order No.:	
Project Name:	R.D. Pate
Project Number:	07-7019.9

Section C Invoice Information:

Attention:	Gary Sawyer
Company Name:	EA
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. (92175447)
1	MW-20	WT	G			10/8/13	1447		3				3					X		013
2	MW-21	↓	↓			↓	1212		3				3					X		014
3	DW-2	↓	↓			↓	1430		3				3					X		015
4	MW-1X	↓	↓			↓	1530		3				3					X		016
5	RB-1	↓	↓			↓	1450		3				3					X		017
6	FB-1	↓	↓			↓	1500		3				3					X		018
7	TB-1	↓	↓			↓	1515		~~3~~ 2				~~3~~ 2					X		019
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / EA	10/10	1340	Jmoore / Pace	10/10	1340	4.8	y	n	y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mike McDermott

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/9/13

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1750598

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 Monroe Rd
Charlotte, NC 28270
Email To: Mike McDermott
Phone: Fax:
Requested Due Date/TAT: 5-DAY/Standard

Section B Required Project Information:

Report To: Mike McDermott
Copy To: Cliff Lundgren, Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate
Project Number: 07-7019.9

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: EA
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER IHSB

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: 8260	Methane, Ethane, Ethene	Nitrate + Nitrite	Sulfate	TOC	Nitrate	Nitrite	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G			10/9/13	1312		3				3					X	X	X	X	X	X	X		020
2	MW-2						0912		3				3					X								025
3	MW-6						1130		3				3					X	X	X	X	X	X			021
4	MW-7						1140		3				3					X	X	X	X	X	X			022
5	MW-11						1002		3				3					X								026
6	MW-12						1435											X	X	X	X	X	X	X		023
7	MW-13						0900		3				3					X								027
8	MW-13 Dup						0905		3				3					X								028
9	MW-18						1020		3				3					X								029
10	MW-22						1305											X	X	X	X	X	X	X		024
11	RB-2						0930		3				3					X								030
12	FB-2						0915		3				3					X								031

92175447

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / EA	10/10	1340	[signature] / Pace	10/10	1340	4.8	y	N	y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mike McDermott
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/9/13

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1750599

Section A Required Client Information:

Company: EnviroAssessments
Address: 9111 Monroe Rd Charlotte, NC 28270
Email To: Mike McDermott
Phone: Fax:
Requested Due Date/TAT: 5-DAY/standard

Section B Required Project Information:

Report To: Mike McDermott
Copy To: Cliff Lundgren, Amanda Petoskey
Purchase Order No.:
Project Name: R.D. Pate
Project Number: 07-7019.9

Section C Invoice Information:

Attention: Gary Sawyer
Company Name: EA
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER IHSB

Site Location STATE: NC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TB-2	WT	G			10/9/13	1505		2			2						+		92175447 032
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] /EA	10/10	1340	[signature] / Pace	10/10	1340	4.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Mike McDermott
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/9/13

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F-ALL-Q-020rev.07, 15-May-2007